MP aes attributes backends basexx bibtex bit32
blobs boolean buffers builders bytemap caches
callback callbacks catcodes characters
chemistry commands containers context
converters coroutine ctxrunner debug dir
directives document documentdata drivers
effects environment experiments figures file
fio floats font fonts functions globaldata
globals graphics gzip helper images
interactions interfaces io job kpse language
languages layouts lfs libraries lmx loaders
logs lpdf lpeg lua luac luatex lxml math
mathematics md5 metapost mime moduledata
modules mp mplib nanojpeg noads node nodes
number objects optional os package
pagebuilders parametersets pdf pdfdecode pdfe
physics pngdecode posit potrace publications
qrcodegen regimes resolvers sandbox scripts
serial set sha2 sio socket sorters sparse
statistics status storage streams string
structures table tex texconditionals texconfig
texconstants texifs texio texisdefined
texmodes texsystemmodes thirddata token tokens
tracers trackers typesetters updaters url
userdata utf8 utilities vector visualizers
xcomplex xdecimal xmath xml xzip zip zlib
ConTEXt LMTX

global (alias: _G)

CONTEXTLMTXMODE	number	**directives**	table
LUAFORMAT	number	**document**	table
LUAMAJORVERSION	number	**documentdata**	table
LUAMINORVERSION	number	**dofile**	function
LUATEXENGINE	string	**drivers**	table
LUATEXFORMATID	number	**effects**	table
LUATEXFUNCTIONALITY	number	**environment**	table
LUATEXVERBOSE	string	**error**	function
LUATEXVERSION	number	**experiments**	table
LUAVERSION	number	**figures**	table
MP	function	**file**	table
SAVEDREQUIRE	function	**fio**	table
aes	table	**floats**	table
arg	table	**font**	table
assert	function	**fonts**	table
attributes	table	**functions**	table
backends	table	**getmetatable**	function
basexx	table	**globaldata**	table
bibtex	table	**globals**	table
bit32	table	**graphics**	table
blobs	table	**gzip**	table
boolean	table	**helper**	table
buffers	table	**images**	table
builders	table	**inspect**	function
bytemap	table	**interactions**	table
caches	table	**interfaces**	table
callback	table	**io**	table
callbacks	table	**ipairs**	function
catcodes	table	**job**	table
characters	table	**kpse**	table
chemistry	table	**language**	table
collectgarbage	function	**languages**	table
commands	table	**layouts**	table
containers	table	**lfs**	table
context	function	**libraries**	table
converters	table	**lmx**	table
coroutine	table	**load**	function
ctxrunner	table	**loaders**	data table
debug	table	**loadfile**	function
dimen	function	**loadstring**	function
dir	table	**logs**	table

lpdf	table		**regimes**	table
lpeg	table		**require**	function
lua	table		**resolvers**	table
luac	table		**sandbox**	table
luatex	table		**scripts**	table
lxml	table		**select**	function
math	table		**serial**	table
mathematics	table		**set**	table
md5	table		**setinspector**	function
metapost	table		**setmathparameters**	function
mime	table		**setmetatable**	function
moduledata	table		**sha2**	table
modules	table		**sio**	table
mp	function		**socket**	table
mplib	table		**sorters**	table
nanojpeg	table		**sparse**	table
next	function		**statistics**	table
noads	table		**status**	table
node	table		**storage**	table
nodes	table		**streams**	table
number	table		**string**	table
objects	table		**structures**	table
optional	table		**table**	table
optionalrequire	function		**tex**	table
os	table		**texconditionals**	data table
package	table		**texconfig**	table
pagebuilders	table		**texconstants**	data table
pairs	function		**texifs**	data table
parametersets	table		**texio**	table
pcall	function		**texisdefined**	data table
pdf	table		**texmodes**	data table
pdfdecode	table		**texsystemmodes**	data table
pdfe	table		**thirddata**	table
physics	table		**toboolean**	function
pngdecode	table		**todecimal**	function
posit	table		**token**	table
potrace	table		**tokens**	table
print	function		**tonumber**	function
publications	table		**tostring**	function
qrcodegen	table		**tracers**	table
rawequal	function		**trackers**	table
rawget	function		**type**	function
rawlen	function		**typesetters**	table
rawset	function		**unpack**	function

updaters	table	**xcomplex**	table
url	table	**xdecimal**	table
userdata	table	**xmath**	table
utf	table	**xml**	table
utf8	table	**xpcall**	function
utilities	table	**xzip**	table
vector	table	**zip**	table
visualizers	table	**zlib**	table
warn	function		

aes (extra lua)

decode function   **random** function
encode function

attributes (context)

alternates   table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered
- D values

applyoverloads   function
checkvalues   function
colorintents   table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered

colors   table
- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- D counts
- B couple
- F currentmodel
- F currentnamedmodel
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F defineprocesscolordirect
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- N forced
- F forcedmodel
- F forcesupport

- F formatcolor
- F formatgray
- F formatluminance
- F formatluminanceratio
- F getpagecolormodel
- F gray
- F graytohsv
- F handler
- T helpers
  - F complement
  - F inbetween
  - F justone
- F hsvtogray
- F hsvtorgb
- F hwbtorgb
- F iccprofile
- F isblack
- F labtolch
- F labtorgb
- F labtoxyz
- F lchtolab
- F lchtorgb
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- N none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbbytes
- F rgbtocmyk
- F rgbtogray
- F rgbtohsv

F	rgbtoxyz	F	register
N	selector	D	registered
F	setlist	F	set
F	setmodel		
F	setpagecolormodel	**numbers**	data table
D	sets	**ofnode**	function
F	spec	**private**	function
F	spot	**public**	function
F	spotcolorname	**registervalue**	function
F	spotcolorparent	**restore**	function
F	spotcolorvalue	**save**	function
B	supported	**setcleaner**	function
F	toattributes	**showcurrent**	function
F	transparencycomponents	**states**	table
B	triggering	F	disabletriggering
F	usecolors	F	enabletriggering
D	valid	F	finalize
F	value	F	initialize
D	values	F	process
B	weightgray	F	selective
F	xyztolab	F	simple
F	xyztorgb	F	stacked
		F	stacker
counts	data table	**system**	function
define	function	**tooverloads**	function
effects	table	**transparencies**	table
N	attribute	N	attribute
D	data	D	data
F	enable	F	enable
F	handler	F	forcesupport
F	register	F	handler
D	registered	T	names
D	values	N	color
getvalue	function	N	colorburn
getvalues	function	N	colordodge
handlers	table	N	darken
hasvalues	function	N	difference
list	data table	N	exclusion
markasoverload	function	N	hardlight
names	data table	N	hue
negatives	table	N	lighten
N	attribute	N	luminosity
D	data	N	multiply
F	enable	N	none
F	handler	N	normal

N overlay	F definedlayoutcomponent
N saturation	F enable
N screen	F forcesupport
N softlight	F handler
N none	B hasorder
F register	D listwise
D registered	F register
B supported	D registered
F toattribute	F resolve_begin
B triggering	F resolve_end
F value	F resolve_reset
D values	F resolve_step

unsetvalue	number	D scopes
values	data table	F setfeatures
viewerlayers	table	F setup

N attribute	F start
F cleanup	F stop
D data	B supported
F define	D values

backends (context)

closeout	function
codeinjections	table

    F registerboxresource

    F registerfont

    F restoreboxresource

current	string
defaults	table

    T codeinjections

     F prerollreference

     F setautoprefix

     F vfstartcolor

     F vfstopcolor

    T nodeinjections

     F cmykcolor

     F destination

     F graycolor

     F injectknockout

     F injectoverprint

     F reference

     F rgbcolor

     F spotcolor

     F transparency

    T registrations

     F transparency

    D tables

getcallbackstate	function
included	table

    B context

    B date

    B id

    B metadata

    B pdf

initialize	function
latelua	function
nodeinjections	table
nothing	function
openout	function
registered	table

    T pdf

     T codeinjections

      F addbookmarks

F analyzenormalsymbol

F analyzesymbol

F attachmentid

F bitmap

F clonefield

F copyimage

F defaultprofile

F definefield

F definefieldset

F defineviewerlayer

F discardpages

F embedfile

F embedimage

F enabletags

F exportformdata

F fieldsurrounding

F flushmergelayer

F getbookmarks

F getboxresourcebox

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getinfo

F getlinkstructureparent

F getreferencestructureobject

F getrefobj

F insertrenderingwindow

F jp2

F jpg

F maptag

F mergebookmarks

F mergecomments

F mergefields

F mergereferences

F mergerenditions

F mergeviewerlayers

F newimage

F png

F prerollreference

F presetsymbol

F presetsymbollist	F useviewerlayer
F processrendering	F validcompactor
F registerdocumentcloseaction	F validfield
F registerdocumentopenaction	F validfieldcategory
F registeredsymbol	F validfieldset
F registerfiguremask	F vfstartcolor
F registerfigurerange	F vfstopcolor
F registerpagecloseaction	F wrapimage
F registerpageopenaction	S name
F registerpattern	T nodeinjections
F registersymbol	F addtags
F ruleactionbox	F annotation
F ruleactiondraw	F attachfile
F ruleactionfill	F changestackedlayer
F ruleactionmp	F cmykcolor
F ruleactionstroke	F comment
F saveboxresource	F destination
F scanimage	F effect
F setattachmentsupport	F getboxresourcedimensions
F setautoprefix	F graycolor
F setencryption	F injectbitmap
F setfieldcalculationset	F insertu3d
F setfigurecolorspace	F knockout
F setfiguremask	F negative
F setformat	F overprint
F setformsmethod	F positive
F setjobcomment	F reference
F setpagetransition	F rgbcolor
F settaggingsupport	F spotcolor
F setupviewerlayer	F startalternate
F setuserdata	F startlayer
F setxmpfile	F startstackedlayer
F startactualtext	F stopalternate
F startalternativetext	F stoplayer
F startlayer	F stopstackedlayer
F startunicodetoactualtext	F transparency
F startunicodetoactualtextdirect	F typesetfield
F stopactualtext	F useboxresource
F stopalternativetext	T registrations
F stoplayer	F cmykindexcolor
F stopunicodetoactualtext	F cmykspotcolor
F stopunicodetoactualtextdirect	F getspotcolorreference
F supportedformats	F grayindexcolor
F unicodetoactualtext	F grayspotcolor

F	rgbindexcolor	**registrations**	table
F	rgbspotcolor	**setencryption**	function
F	spotcolorname	**tables**	table
F	transparency	**writeout**	function
T	tables		

basexx (extra lua)

decode16	function		**encode16**	function
decode64	function		**encode64**	function
decode85	function		**encode85**	function
decodeLZW	function		**encodeLZW**	function
decodeRL	function		**encodeRL**	function

bit32 (context)

arshift	function	**extract**	function
band	function	**lrotate**	function
bnot	function	**lshift**	function
bor	function	**replace**	function
btest	function	**rrotate**	function
bxor	function	**rshift**	function

blobs (context)

append	function	**strht**	function
dimensions	function	**strwd**	function
dispose	function	**tohpack**	function
new	function	**tonodes**	function
pack	function	**tovpack**	function
strdp	function	**write**	function
strhd	function		

boolean (context)

tocontext   function
tonumber   function

buffers (context)

append	function	**parallel**	table
assign	function	F define	
collectcontent	function	F hassomecontent	
empty	function	F next	
erase	function	F place	
exists	function	F reset	
get	function	F save	
getcontent	function	**prepend**	function
getctxlua	function	**raw**	function
getlines	function	**run**	function
getmkvi	function	**samplefile**	function
gettex	function	**splitsamplefile**	function
loadcontent	function	**undent**	function

builders (context)

checkparcontext   function
checksidefloat   function
hpack   table
   F qualityactions
   F report
   F show
kernel   table
   F collapsing
   F hyphenating
   F kerning
   F ligaturing
   F mlisttohlist
paragraphs   table
   T constructors
    N attribute
    F define
    F disable
    F enable
    F handler
    T methods
     F basic
     F default
     F hpack
     F oneline
    D names
    D numbers
    F set
    F start
    F stop
   T expansion
    F trace
   F keeptogether
   F registertogether
   T solutions
   T splitters
    F define
    F optimize
    T registered
    F reset
    F set
    F split

    F start
    F stop
   F tag
parpassidentifier   function
passnames   data table
profiling   table
   F add
   F addrivers
   F boxlinehandler
   F distance
   F fixedprofile
   F get
   F getrivers
   F list
   F pagehandler
   F pagelinehandler
   F profilebox
   F profilelines
   F set
   F setlines
registerpaspasscallback   function
vpack   table
   F qualityactions
   F report
vspacing   table
   D categories
   F checkstrutdepth
   F collapsevbox
   T data
    D map
    D skip
    D snapmethods
   F definesnapmethod
   B fixed
   F flushcontributions
   F forcepageflush
   F forcestrutdepth
   F getnofpreviouslines
   F inject
   F injectdisable
   F injectnowhite

F injectpenalty

F injectskip

F interceptsamepagecontent

F pagehandler

F pageoverflow

F popatsame

F pushatsame

F setmap

F setskip

F snapbox

F synchronizepage

F tocategories

F tocategory

F vboxhandler

bytemap (context)

bounds	function	**new**	function
clip	function	**newdomain**	function
copy	function	**process**	function
dimensions	function	**reduce**	function
domain	function	**reset**	function
downgrade	function	**setgray**	function
downsample	function	**setgrayadd**	function
getbyte	function	**setgraymin**	function
getbytes	function	**setrgb**	function
getvalue	function	**slicegray**	function
hasbytegray	function	**slicerange**	function
hasbyterange	function	**slicergb**	function
hasbytergb	function		

caches (context)

base	string	**loadcontent**	function
collapsecontent	function	**loaddata**	function
configfiles	function	**more**	string
contentstate	function	**savecontent**	function
defaults	table	**savedata**	function
getfirstreadablefile	function	**setfirstwritablefile**	function
getreadablepaths	function	**setluanames**	function
getwritablepath	function	**treehash**	function
hashed	function	**usedpaths**	function
is_writable	function		

callback (basic tex)

find	function	**list**	function
getindex	function	**names**	function
getoptions	function	**register**	overloaded function
getoptionvalues	function	**setoptions**	function
getstate	function	**setstate**	function
getstatevalues	function	**testonly**	function
known	function	**usage**	function

callbacks (context)

freeze   function
functions   table
   F start_page_number
   F stop_page_number
getcomment function
getstates   function
known   function
list   table
   N alignment
   N append_adjust
   N append_line
   N append_migrate
   N append_to_vlist
   N balance_boundary
   N balance_check
   N balance_insert
   N begin_paragraph
   N buildpage
   N define_font
   N delayed_glue
   N find_format_file
   N find_log_file
   N get_attribute
   N get_math_dictionary
   N get_noad_class
   N glyph_run
   N handle_overload
   N handle_uinsert
   N handle_uleader
   N hpack
   N hpack_quality
   N hyphenate
   N insert_boundary
   N insert_check_split
   N insert_distance
   N insert_par
   N intercept_lua_error
   N intercept_tex_error
   N italic_correction
   N kerning
   N ligaturing

   N linebreak
   N linebreak_check
   N linebreak_quality
   N local_box
   N make_extensible
   N math_rule
   N missing_character
   N mlist_to_hlist
   N open_data_file
   N packed_vbox
   N page_boundary
   N paragraph_context
   N paragraph_pass
   N post_linebreak
   N pre_dump
   N pre_linebreak
   N pre_output
   N process_character
   N process_jobname
   N quality_font
   N register_extensible
   N show_build
   N show_error_message
   N show_loners
   N show_lua_call
   N show_vsplit
   N show_warning_message
   N show_whatsit
   N start_file
   N start_run
   N stop_file
   N stop_run
   N tail_append
   N test_only
   N trace_memory
   N vpack
   N vpack_quality
   N wrapup_run
names   table
optimizer   function
optionbits table

optioncodes	table		N disabled
N direct			N frozen
N trace			N fundamental
pop	function		N private
push	function		N selective
register	function		N set
report	function		N touched
statebits	table		N tracing
statecodes	table		

catcodes (context)

names data table   **register** function
numbers data table

characters (context)

addcharacternames	function	T after_postscript	
adobename	function	T after_subscript	
bidi	data table	T anudatta	
blockrange	function	T before_half	
blocks	data table	T before_main	
can_have_space	data table	T before_postscript	
casemap	table	T before_subscript	
categories	data table	T below_mark	
category	function	T consonant	
categorytags	data table	T dependent_vowel	
classifiers	table	T halant	
collapsed	data table	T independent_vowel	
combined	data table	T nukta	
contextname	function	T post_mark	
csletters	data table	T pre_mark	
data	data table	T ra	
decomposed	data table	T stress_tone_mark	
description	function	T twopart_mark	
descriptions	data table	T vowel_modifier	
detailtags	data table	**initialize**	function
directions	table	**is_character**	data table
emoji	table	**is_command**	data table
F compact		**is_hyphenator**	data table
F known		**is_letter**	data table
F resolve		**is_mark**	data table
emojized	function	**is_nothing**	data table
enccodes	data table	**is_punctuation**	data table
entities	data table	**is_spacing**	data table
fallbacks	data table	**is_symbol**	data table
filters	data table	**lcchars**	data table
fractions	table	**lccode**	function
fromnumber	function	**lccodes**	data table
fschars	data table	**lettered**	function
fscodes	data table	**lhash**	data table
getrange	function	**linebreaks**	data table
graphemes	data table	**lower**	function
hangul	data table	**mathlists**	data table
indicgroups	table	**mirrors**	table
T above_mark		**otfscripts**	data table
T after_half		**ranges**	data table
T after_main		**registerentities**	function

remap_hangul_syllabe	function	**tex**	table
scripthash	table	D accentmapping	
setactivecatcodes	function	D commandmapping	
setlettercatcodes	function	F defineaccents	
setothercatcodes	function	F safechar	
shape	function	F strtextoutf	
shaped	function	F strtoutfpattern	
shash	data table	F toutf	
shchars	data table	F toutfpattern	
shcodes	data table	**textclasses**	table
showstring	function	**tonumber**	function
specialchars	data table	**ucchars**	data table
specials	data table	**uccode**	function
splits	table	**uccodes**	data table
T char		**uhash**	data table
T compat		**unicodechar**	function
subscripts	table	**upper**	function
superscripts	table	**verbosemarks**	data table
synonyms	data table		

chemistry (context)

component	function	S line	
define	function	S lrn	
definitions	data table	S lrt	
format	string	S mark	
inlinechemical	function	S mir	
instance	string	S mov	
method	string	S move	
molecule	function	S number	
moleculeparser	userdata	S oe	
start	function	S off	
stop	function	S r	
syntax	table	S rb	
T alkyl		S rbd	
S category		S rd	
T keys		S rdb	
S ad		S rdd	
S adj		S rh	
S arrow		S rm	
S au		S rn	
S b		S rot	
S bb		S rrn	
S bd		S rrt	
S bw		S rt	
S c		S rz	
S cc		S sb	
S ccd		S sd	
S cd		S sr	
S cz		S sub	
S dash		S tb	
S db		S z	
S diff		S zln	
S dir		S zlt	
S dr		S zn	
S ed		S zrn	
S ep		S zrt	
S es		S zt	
S et		S keyword	
S hb		N max	
S label		T boat	
S ldb		S category	
S ldd		T keys	

```
S adj                                    S rt
S arrow                                  S rz
S b                                      S sb
S bb                                     S sr
S c                                      S sub
S cc                                     S z
S ccd                                    S zln
S cd                                     S zlt
S dash                                   S zn
S diff                                   S zrn
S eb                                     S zrt
S label                                  S zt
S line                                   S keyword
S lr                                     N max
S lrb                                  T carbon
S lrbd                                   S category
S lrd                                    S keyword
S lrh                                    N max
S lrn                                  T chair
S lrt                                    S category
S lrz                                    S keyword
S lsr                                    N max
S lsub                                 T chem
S mark                                   N arguments
S mov                                    F direct
S move                                 T closecomplex
S number                                 S direct
S off                                  T eight
S r                                       S category
S rb                                      T keys
S rbd                                       S ad
S rd                                        S adj
S rh                                        S arrow
S rn                                        S au
S rr                                        S b
S rrb                                       S c
S rrbd                                      S cc
S rrd                                       S ccd
S rrh                                       S cd
S rrn                                       S crz
S rrt                                       S dash
S rrz                                       S db
S rsr                                       S diff
S rsub                                      S dr
```

S eb	S rz
S ed	S s
S er	S sb
S hb	S sr
S label	S ss
S line	S sub
S lr	S z
S lrb	S zln
S lrbd	S zlt
S lrd	S zn
S lrh	S zrn
S lrn	S zrt
S lrt	S zt
S lrz	S keyword
S lsr	N max
S lsub	T equals
S mark	S direct
S mid	T equilibrium
S mids	N arguments
S midz	F direct
S mir	T five
S mov	S category
S move	S keyword
S number	N max
S off	T fivefront
S r	S category
S rb	S keyword
S rbd	N max
S rd	T four
S rh	S category
S rm	S keyword
S rn	N max
S rot	T gives
S rr	N arguments
S rrb	F direct
S rrbd	T mesomeric
S rrd	N arguments
S rrh	F direct
S rrn	T minus
S rrt	S direct
S rrz	T mp
S rsr	N arguments
S rsub	F direct
S rt	T newmaneclipsed

S category	S direct
S keyword	T restore
N max	S direct
T newmanstagger	T save
S category	S direct
S keyword	T seven
N max	S category
T nine	S keyword
S category	N max
S keyword	T six
N max	S category
T one	S keyword
S category	N max
S keyword	T sixfront
N max	S category
T opencomplex	S keyword
S direct	N max
T pb	T space
S direct	S direct
T pe	T three
S direct	S category
T plus	S keyword
S direct	N max
T reset	**undefine** function

containers (context)

cleanname	function	**is_valid**	function
content	function	**read**	function
define	function	**usecache**	boolean
is_usable	function	**write**	function

converters (context)

A	function	**cn-a**	function
A:es	function	**cn-c**	function
A:ru	function	**cn-d**	function
A:sl	function	**convert**	function
AK	function	**decimals**	function
Alphabetic	function	**define**	function
Alphabetic:es	function	**gregorian_to_hebrew**	function
Alphabetic:ru	function	**gregorian_to_jalali**	function
Alphabetic:sl	function	**hebrewnumerals**	function
Character	function	**helpers**	table
Characters	function	**hexstringtonumber**	function
I	function	**i**	function
KA	function	**isleapyear**	function
KR	function	**jalali_to_gregorian**	function
R	function	**lchexnumber**	function
RK	function	**lchexnumbers**	function
Romannumerals	function	**leapyear**	function
Russiannumerals	function	**lower**	function
Sloveniannumerals	function	**max**	function
Spanishnumerals	function	**maxchrs**	function
Word	function	**nicenumber**	function
Words	function	**nofdays**	function
a	function	**number**	function
a:es	function	**numbers**	function
a:ru	function	**octnumber**	function
a:sl	function	**octstringtonumber**	function
abjadnodotnumerals	function	**ordinal**	function
abjadnumerals	function	**r**	function
alphabetic	function	**romannumerals**	function
alphabetic:es	function	**russiannumerals**	function
alphabetic:ru	function	**sequences**	data table
alphabetic:sl	function	**settime**	function
character	function	**sloveniannumerals**	function
characters	function	**spaceddigits**	function
chineseallnumerals	function	**spanishnumerals**	function
chinesecapnumerals	function	**textime**	function
chinesedatenumerals	function	**toabjad**	function
chinesenumerals	function	**tochinese**	function
chr	function	**tohebrew**	function
chrs	function	**toroman**	function
cn	function	**totime**	function

uchexnumber	function		F translate	
uchexnumbers	function	**weekday**		function
upper	function	**word**		function
verbose	table	**words**		function
	D data			

coroutine (basic lua)

close	function	**running**	function
create	function	**status**	function
isyieldable	function	**wrap**	function
resume	function	**yield**	function

ctxrunner (context)

load   function   **prepfiles**   data table
preparedfile function   **resolve**   function

debug (basic lua)

getinfo   function   **traceback** function
sethook   function

dir (context)

collectpattern	function	**globfiles**	function
current	function	**globpattern**	function
expandlink	function	**ls**	function
expandname	function	**makedirs**	function
found	function	**mkdirs**	function
glob	function	**pop**	function
globdirs	function	**push**	function

directives (context)

data	data table	**register**	function
default	function	**report**	function
disable	function	**reset**	function
done	table	**show**	function
enable	function	**value**	function
list	function	**values**	function
name	string		

document (context)

arguments	data table	**pdf_cleanup_procsets**	function
files	table	**pdf_identify_content**	function
functions	table	**pdf_serialize_content**	function
getargument	function	**pdf_strip_content**	function
getfilename	function	**pdf_strip_page**	function
options	table	**setargument**	function
T commandline		**setcommandline**	function
D environments		**setdefaultargument**	function
D modes		**setenvironments**	function
D modules		**setfilename**	function
T ctxfile		**setfilenames**	function
D environments		**setmodes**	function
D modes		**setmodules**	function
D modules		**variables**	data table
pdf_cleanup_cidsets	function		

documentdata (context)

variable function

drivers (context)

applyanchor	function		F rule
applyorientation	function		F simplerule
convert	function		F specialrule
converters	table		F updatefontstate
F analyze			T whatsit
F engine			S name
F lmtx		T json	
F resyncbox		T actions	
enable	function		F cleanup
finalize	function		F convert
gethpos	function		F finalize
gethvrpos	function		F initialize
getpos	function		F outputfilename
getrpos	function		F prepare
getvpos	function		F wrapup
helpers	table		T flushers
initialize	function		F character
install	function		F popleaderlevel
instances	table		F pushleaderlevel
T empty			F rule
T actions			F setstate
F convert			F simplerule
F prepare			F specialrule
T flushers			F updatefontstate
F popleaderlevel			T whatsit
F pushleaderlevel			S name
T whatsit		T lua	
S name		T actions	
T js			F cleanup
T actions			F convert
F cleanup			F finalize
F convert			F initialize
F finalize			F outputfilename
F initialize			F prepare
F outputfilename			F wrapup
F prepare		T flushers	
F wrapup			F character
T flushers			F popleaderlevel
F character			F pushleaderlevel
F popleaderlevel			F rule
F pushleaderlevel			F simplerule

F specialrule

  F updatefontstate

  T whatsit

 S name

T mpo

 T actions

  F finalize

  F initialize

 T flushers

  F character

  F popleaderlevel

  F pushleaderlevel

  F rule

  F simplerule

  F specialrule

  T whatsit

 S name

T mps

 T actions

  F cleanup

  F convert

  F finalize

  F initialize

  F outputfilename

  F prepare

  F wrapup

 T flushers

  F character

  F popleaderlevel

  F pushleaderlevel

  F rule

  F simplerule

  F specialrule

  F updatefontstate

  T whatsit

 S name

T none

 T actions

 T flushers

  F popleaderlevel

  F pushleaderlevel

  T whatsit

 S name

T pdf

T actions

 F cleanup

 F convert

 F finalize

 F initialize

 F outputfilename

 F prepare

 F wrapup

T flushers

 F character

 F flushimage

 F fontchar

 F group

 F literal

 F popgroup

 F popleaderlevel

 F poporientation

 F pushgroup

 F pushleaderlevel

 F pushorientation

 F restore

 F rule

 F save

 F setmatrix

 F setstate

 F simplerule

 F space

 F specialrule

 F startclipping

 F startmatrix

 F startmirroring

 F startrotation

 F startscaling

 F stopclipping

 F stopmatrix

 F stopmirroring

 F stoprotation

 F stopscaling

 F updatefontstate

 T whatsit

S name

lmtxversion   number

outputfilename   function

report   function

effects (context)

getoctaveloops	function	**octavebytemap**	function
getoctavemethods	function	**perlinnoise**	function
getoctavestatus	function	**simplexangle**	function
getoctavevariants	function	**simplexdetail**	function
newoctave	function	**simplexnoise**	function
octave	function	**stepoctave**	function

environment (context)

argument	function	**luafilechunk**	function
arguments	data table	**luatexengine**	string
basicengines	data table	**luatexfunctionality**	number
currentrun	number	**luatexverbose**	string
definefilefallback	function	**luatexversion**	number
definefilesynonym	function	**maxnofruns**	number
engineflags	data table	**oldhome**	string
filename	string	**originalarguments**	data table
filenames	table	**outputfilename**	string
files	table	**ownbin**	string
filesynonyms	data table	**ownmain**	string
forcedruns	number	**ownname**	string
getargument	function	**ownpath**	string
globfiles	function	**prerollrun**	boolean
homedir	string	**rawarguments**	data table
initex	boolean	**reconstructcommandline**	function
initexmode	boolean	**relativepath**	function
initializearguments	function	**setargument**	function
initializefilenames	function	**splitarguments**	function
inputfilebarename	string	**suffix**	string
inputfilename	string	**texfile**	function
inputfilesuffix	string	**texmfos**	string
jobfilefullname	string	**texos**	string
jobfilename	string	**texroot**	string
jobfilesuffix	string	**truefilename**	function
kindofrun	number	**useluamodule**	function
lmtxmode	number	**usemodules**	function
loadexamodes	function	**validengines**	data table
loadluafile	function	**version**	string
luafile	function		

experiments (context)

data	data table	**register**	function
default	function	**report**	function
disable	function	**reset**	function
enable	function	**show**	function
list	function	**value**	function
name	string	**values**	function

figures (context)

applyratio	function		F	resetdata
badname	function		F	resetstore
bases	data table		F	scan
bitmapimage	function		F	serialize
boxnumber	number		T	sizes
bytepalette	function		B	art
cachepaths	data table		B	bleed
check	function		B	crop
checkers	data table		B	media
conversions	data table		B	none
converters	data table		B	trim
current	function		F	storedata
defaultdepth	number		F	totable
defaultheight	number		T	types
defaultsearch	boolean		N	jbig2
defaultwidth	number		N	jp2
done	function		N	jpg
dummy	function		N	none
existers	data table		N	pdf
exists	function		N	png
formats	data table		N	stream
found	data table		F	wrap
get	function		**include**	function
getinfo	function		**includers**	data table
getpdfinfo	function		**initialize**	function
getrealpage	function		**loaded**	data table
guess	function		**localpaths**	data table
guessfromstring	function		**magics**	data table
hash	function		**mergegoodies**	function
identifiers	data table		**nofmissing**	number
identify	function		**nofprocessed**	number
images	table		**order**	data table
F	check		**palettes**	table
F	checksize		**paths**	data table
F	copy		**patterns**	data table
F	create		**pop**	function
F	embed		**preferquality**	boolean
F	embedfromstore		**programs**	data table
F	fetchdata		**push**	function
T	keys		**qrcode**	function
F	print		**registerpattern**	function

registerresource	function	**setconversion**	function
registersuffix	function	**setlookups**	function
remappers	data table	**setorder**	function
resources	data table	**setpaths**	function
scale	function	**suffixes**	data table
set	function	**used**	data table

file (basic lua)

addsuffix	function	**needsupdating**	function
basename	function	**pathpart**	function
checksum	function	**readdata**	function
collapsepath	function	**removesuffix**	function
copy	function	**replacesuffix**	function
dirname	function	**reslash**	function
expandname	function	**robustname**	function
extname	function	**savechecksum**	function
is_qualified_path	function	**savedata**	function
is_readable	function	**size**	function
is_rootbased_path	function	**splitbase**	function
is_writable	function	**splitname**	function
isreadable	function	**splitpath**	function
iswritable	function	**suffix**	function
join	function	**suffixes**	function
joinpath	function	**suffixesonly**	function
loadchecksum	function	**suffixonly**	function
nameonly	function	**syncmtimes**	function
nametotable	function	**withinbase**	function
needs_updating	function		

fio (extra lua)

getposition	function	**readinteger1le**	function
read2dot14	function	**readinteger2**	function
readbytes	function	**readinteger2le**	function
readbytetable	function	**readinteger3**	function
readcardinal1	function	**readinteger3le**	function
readcardinal1le	function	**readinteger4**	function
readcardinal2	function	**readinteger4le**	function
readcardinal2le	function	**readintegertable**	function
readcardinal3	function	**setposition**	function
readcardinal3le	function	**skipposition**	function
readcardinal4	function	**writecardinal1**	function
readcardinal4le	function	**writecardinal1le**	function
readcardinaltable	function	**writecardinal2**	function
readcline	function	**writecardinal2le**	function
readcstring	function	**writecardinal3**	function
readfixed2	function	**writecardinal3le**	function
readfixed4	function	**writecardinal4**	function
readinteger1	function	**writecardinal4le**	function

floats (context)

analysemethod	function	**nofstacked**	function
checkedpagefloat	function	**pop**	function
collect	function	**push**	function
consult	function	**resave**	function
flush	function	**save**	function
getvariable	function	**stacked**	function
hasstacked	function		

font (basic tex)

addcharacters	function	**getmathspec**	function
addquality	function	**getparameterfields**	function
current	function	**gettextcharacterfields**	function
define	function	**id**	function
getfont	function	**max**	function
getfontdimen	function	**nextid**	function
getfontfields	function	**setfont**	function
getfontspec	function	**setfontdimen**	function
getmathcharacterfields	function	**xscaled**	function
getmathindex	function	**yscaled**	function

fonts (context)

analyzers	table		F	beforepassingfonttotex
D	features		D	cache
D	initializers		F	calculatescale
D	methods		F	checkedfeatures
F	setstate		F	checkedfilename
D	states		F	collectprocessors
B	useunicodemarks		F	currentfonthasfeature
callbacks	table		D	designsizes
F	compile		F	enhanceparameters
F	devirtualize		T	enhancers
checkers	table		T	afm
F	getmissing		F	apply
D	mapping		F	patch
F	missing		T	patches
F	placeholder		F	register
cid	table		F	report
F	getmap		F	register
F	loadfile		F	report
collections	table		T	otf
F	checkenabled		F	addfeature
F	clonevector		F	apply
F	define		F	enhance
T	definitions		F	patch
F	direct		T	patches
F	found		F	register
F	prepare		F	report
F	process		F	register
F	register		F	report
F	registermain		T	tfm
F	report		F	apply
F	reset		F	patch
T	rscales		T	patches
T	vectors		F	register
constructors	table		F	report
F	addcharacters		F	register
F	addcoreunicodes		F	report
F	aftercopyingcharacters		N	factor
F	applyfinalizers		T	features
F	applymanipulators		D	afm
F	assignmathparameters		D	otf
F	beforecopyingcharacters		D	tfm

F finalize
F getfeatureaction
F getmathparameter
F getprivate
T handlers
  T afm
    B autoprefixed
    D cache
    D features
    F getkern
    T helpdata
      D bothkerned
      D leftkerned
      D ligatures
      D rightkerned
      D texligatures
    F load
    T readers
      F getinfo
      F loadfont
      F loadshapes
    F setfeatures
    B syncspace
    N version
  T otf
    F addfeature
    F basemodeinitializer
    D cache
    F collectlookups
    T coverup
      T actions
        F alternate
        F chainposition
        F chainsubstitution
        F kern
        F ligature
        F multiple
        F pair
        F single
        F substitution
      F register
      S stepkey
    F dataset
    F datasetpositionprocessor

S defaultbasealternate
S defaultnodealternate
D features
F featuresinitializer
F featuresprocessor
T fixers
F getactualtext
F getalternate
F getgsub
F getkern
F getmultiple
F getstreamhash
F getsubstitution
T handlers
  F ctx_camelcasing
  F devanagari_remove_joiners
  F devanagari_reorder_matras
  F devanagari_reorder_pre_base_reordering_consonants
  F devanagari_reorder_reph
  F gpos_context
  F gpos_contextchain
  F gpos_cursive
  F gpos_mark2base
  F gpos_mark2ligature
  F gpos_mark2mark
  F gpos_pair
  F gpos_single
  F gsub_alternate
  F gsub_context
  F gsub_contextchain
  F gsub_ligature
  F gsub_multiple
  F gsub_reversecontextchain
  F gsub_single
  F trigger_space_kerns
T helpers
  F blockligatures
  F pardirstate
  F txtdirstate
F load
F loadoutlinedata
F loadstreamdata
F modeinitializer
D mpscache

```
D pdfcache                                      T gsubhandlers
F plugininitializer                               F alternate
F pluginprocessor                                 F chainedcontext
T plugins                                         F context
  T text                                          F extension
D pngcache                                        F ligature
B pngenabled                                      F multiple
T readers                                         F reversechainedcontextsingle
  F addunicodetable                               F single
  F avar                                        F gvar
  F cbdt                                        F head
  F cblc                                        T helpers
  F cff                                           F axistofactors
  F cff2                                          F cleanname
  T cffencoder                                    F getaxisscale
  F checkhash                                     F getfactors
  F cmap                                          F getscales
  F colr                                          F gotodatatable
  F compact                                       F normalizedaxis
  F condense                                      T normalizedaxishash
  F cpal                                          F readvariationdata
  F dsig                                          F reportskippedtable
  F ebdt                                          F setvariabledata
  F eblc                                        F hhea
  F ebsc                                        F hmtx
  F expand                                      F hvar
  F extend                                      F kern
  F fvar                                        F loadfont
  F gdef                                        F loadshapes
  F getcomponents                               F loca
  F getinfo                                     F math
  F glyf                                        F maxp
  F gpos                                        F mvar
  T gposhandlers                                F name
    F chainedcontext                            F os/2
    F context                                   F pack
    F cursive                                   F parsecharstrings
    F extension                                 F post
    F marktobase                                F potracetocff
    F marktoligature                            F registerextender
    F marktomark                                F rehash
    F pair                                      F sbix
    F single                                    F stat
  F gsub                                        T streamreader
```

F close	F writecardinal1
F getposition	F writecardinal1le
F getsize	F writecardinal2
F look	F writecardinal2le
F open	F writecardinal3
F read2dot14	F writecardinal3le
F readbyte	F writecardinal4
F readbytes	F writecardinal4le
F readbytetable	F writeinteger1
F readcardinal	F writeinteger1le
F readcardinal1	F writeinteger2
F readcardinal1le	F writeinteger2le
F readcardinal2	F writeinteger3
F readcardinal2le	F writeinteger3le
F readcardinal3	F writeinteger4
F readcardinal3le	F writeinteger4le
F readcardinal4	F writestring
F readcardinal4le	F stripredundant
F readcardinaltable	F svg
F readchar	N tableversion
F readcline	F unifymissing
F readcstring	F unpack
F readfixed2	F vhea
F readfixed4	F vmtx
F readinteger	F vorg
F readinteger1	F vvar
F readinteger1le	F woff2otf
F readinteger2	F registerpalette
F readinteger2le	F registerplugin
F readinteger3	F reorderlookups
F readinteger3le	F scriptandlanguage
F readinteger4	F setdynamics
F readinteger4le	F setfeatures
F readintegertable	T statistics
F readsignedbyte	D usedfeatures
F readstring	D svgcache
F readtag	B svgenabled
F setposition	T tables
F size	D baselines
F skip	D features
F skiplong	D featuretypes
F skipposition	D languages
F skipshort	D scripts
F writebyte	F texthandler

```
  T vectors                              F combine
    T arab                                 T combiner
      T gpos                                 D commands
        N curs                             D helpers
        N kern                             D math
        N mark                             D predefined
        N mkmk                             N version
      T gsub                               D whatever
        N calt                           F hashfeatures
        N ccmp                           F hashinstance
        N cswh                           T hashmethods
        N dlig                             F normal
        N fina                             F virtual
        N init                           F initializefeatures
        N isol                           D loadedfonts
        N liga                           N noffontsloaded
        N medi                           N nofsharedfonts
        N mset                           N nofsharedhashes
        N rclt                           N nofsharedvectors
        N rlig                           N privateoffset
    N version                            D privateslots
  T pfb                                  F readanddefine
    F filterencoding                     F registerfeature
    F filtermetadata                     F registerscriptset
    F loadvector                         F resetfeature
    N version                            B resolvevirtualtoo
  T tfm                                  F scale
    D cache                              F scaled
    D features                           F setfactor
    N maxnestingdepth                    F setfeature
    N maxnestingsize                     F setmathparameter
    T readers                            F setname
      F loadpk                           B sharefonts
      F loadtfm                          F trytosharefont
      F loadtfmvf                        N version
      F loadvf                   current                    function
      F pktopdf                  currentid                  function
      F potracedtopdf            definers                   table
      F showpk                           F addlookup
    F reencode                           F analyze
    F setfeatures                        F applypostprocessors
    N version                            F checkedmode
  T vf                                   F checkedscript
    T combinations                       S defaultlookup
```

F define	
F getspecification	
F internal	
F loadfont	
F makespecification	
T methods	
F install	
D variants	
F read	
F register	
F registered	
F registerfallbackfont	
F registersplit	
F resetnullfont	
F resolve	
T resolvers	
F file	
F name	
F spec	
definetypeface	function
dropins	table
F clone	
F getshape	
F getshapes	
F nextid	
F provide	
F registerglyph	
F registerglyphs	
F swap	
F swapone	
effects	table
encodings	table
T agl	
D ctxcodes	
D extras	
D synonyms	
D unicodes	
D cache	
F is_known	
D known	
F load	
F make_unicode_vector	
D math	
N version	

enhanceid	function
expansions	data table
formats	data table
getalternate	function
getindices	function
getkern	function
getmultiple	function
getsubstitution	function
getters	table
T alternate	
F opentype	
T kern	
F opentype	
F type1	
F type3	
T multiple	
F opentype	
T substitution	
F opentype	
goodies	table
D colorschemes	
T data	
T common-math.lfg	
S author	
S comment	
S copyright	
B initialized	
T mathematics	
T tweaks	
T presets	
F addmathkerns	
F braille	
F eulertocalligraphic	
F fallbacks	
F moderntocalligraphic	
F moveintegrals	
F moveitalics	
F pagellaradical	
F rsfstoscript	
F rsfsuprighttoscript	
F scripttocalligraphic	
F smalldigits	
F wipeanchors	
F wipeitalics	

```
      F xitsarabic                      D filenames
  S name                                F getcompositions
  S version                             T list
T dejavu-math                           F load
  S author                              F prepare_features
  S comment                             F register
  S copyright                           F registerpostprocessor
  B initialized                         F report
  T mathematics                         T suffixes
    T alternates                  handlers             table
      T dotless                   hashes               table
        S comment                       D characters
        S feature                       D classes
        N value                         D csnames
      T bigslots                        D descriptions
      T parameters                      D dynamics
        N AccentBaseDepth               D emwidths
        N AccentTopShiftUp              D exheights
        N DelimiterDisplayPercent       D features
        N DelimiterDisplayShortfall     D identifiers
        N DelimiterPercent              D italics
        N DelimiterShortfall            D lastmathids
        N DisplayOperatorMinHeight      D marks
        N FlattenedAccentTopShiftUp     D mathparameters
        N FractionRuleThickness         D modes
        S PrimeBaselineDropMax          D originals
        S PrimeShiftUp                  D parameters
        S PrimeShiftUpCramped           T processes
        N SubscriptShiftDown            D properties
        S SubscriptShiftDownWithSuperscript  D quads
        N SuperscriptShiftUp            D resources
      T tweaks                          T setdynamics
      T aftercopying                    T shapes
  S name                                D spaces
  S version                             D spacings
T dejavu-text                           T streams
  S author                              D unicodes
  S comment                             D unislots
  S copyright                           D variants
  T extensions                          D xheights
  B initialized                   helpers              table
  S name                                F addextraprivate
  S version                             F addprivate
D designsizes                           F appendcommands
```

F	appendcommandtable		F	startcolor
F	checkflags		F	stopcolor
F	checkmerge		T	vfspecials
F	checksteps		T	backgrounds
F	collectanchors		T	outlines
F	combineglyphs		**infofont**	function
D	commands		**iterators**	table
F	composecharacters		F	characters
F	descriptiontoslot		F	descriptions
F	dimenfactor		F	glyphs
F	expandglyph		**loggers**	table
D	extraprivates		F	format
F	fontpatternhassize		F	onetimemessage
F	getcoloredglyphs		F	register
F	getdigitwidth		F	reportdefinedfonts
F	getinstancespec		F	reportusedfeatures
F	getparameters		**mappings**	table
F	getprivatecharornode		F	addtounicode
F	getprivatenode		F	fromunicode16
F	getprivates		F	getentry
F	getprivateslot		F	loadfile
F	glyphdimenfactor		F	loadline
F	hasprivate		F	makenameparser
F	indextoslot		D	overloads
F	isprivate		F	reset
F	mathscriptslots		F	tounicode
F	name		F	tounicode16
F	nametoslot		F	tounicode16sequence
F	newprivateslot		**metapost**	table
F	prependcommands		F	baseline
F	prependcommandtable		F	boundingbox
F	privateslot		F	boxtomp
F	registerglyphbox		F	boxtompdimensions
F	scalecommands		F	boxtompposition
F	setboxdirectly		F	draw
F	setboxglyph		F	fill
F	setboxglyphs		F	glyph
F	setdigitwidth		F	maxbounds
F	setmetaglyph		F	paths
F	setmetaglyphs		F	widthline
D	sharedprivates		F	zeroline
F	splitfontpattern		**mode**	function
F	tochar		**names**	data table
T	vfinjectors		**nulldata**	data table

privateoffsets table

  B keepnames

  N mathbase

  N mathextrabase

  N textbase

  N textextrabase

protrusions data table

readers table

  F afm

  F check_lua

  F check_tfm

  F lua

  F ofm

  F opentype

  F otf

  F pfb

  D sequence

  F tfm

  F ttc

  F ttf

  F woff

registersanitizer function

reserveid function

select table

  D alternatives

  F bodyfont

  D data

  F default

  D defaults

  F definefallbackfamily

  F definefontfamily

  F definefontfamilypreset

  D extras

  F fallback

  D fallbacks

  F features

  F filefallback

  F fontdata

  F fontfallback

  F fontsynonym

  F goodies

  F mathfallback

  D methods

  D presets

  F registerfallback

  F registerfiles

  F registerfontalternative

  F registerfontfamily

  F textfallback

  F typeface

  F typescript

  F userdata

specifiers table

  D contextmerged

  F contextnumber

  D contextnumbers

  D contextsetups

  F contexttostring

  F definecontext

  F mergecontext

  F presetcontext

  F registercontext

  T scriptsets

    T af

      S language

      N number

      S script

    T always

      S autolanguage

      S autoscript

      B checkmissing

      B compoundhyphen

      B curs

      B kern

      B mark

      B mkmk

      S mode

      N number

      S script

      S textcontrol

      B wipemath

    T arabic

      B analyze

      S autolanguage

      S autoscript

      B calt

      B ccmp

      B clig

B curs	B pstf
B dlig	B psts
B fina	B rphf
B init	S script
B isol	B vatu
B kern	T bengali-two
S language	B abvm
B liga	B abvs
B mark	B akhn
B medi	B blwf
B mkmk	B blwm
S mode	B blws
N number	B calt
B rlig	B cjct
S script	B dist
T ba	B half
S language	B haln
N number	S indic
S script	B init
T bandw:overlay	B kern
B ccmp	S language
B dist	B locl
N number	S mode
T bengali-one	B nukt
B abvm	N number
B abvs	B pres
B akhn	B pstf
B blwf	B psts
B blwm	B rphf
B blws	S script
B calt	B vatu
B cjct	T boldened
B dist	S effect
B half	N number
B haln	T boldened-10
S indic	S effect
B init	N number
B kern	T boldened-15
S language	S effect
B locl	N number
S mode	T boldened-20
B nukt	S effect
N number	N number
B pres	T boldened-25

S effect

N number

T boldened-30

S effect

N number

T ca

S language

N number

S script

T camelcasing

B camelcasing

N number

T cn

S language

N number

S script

T color

B ccmp

S color

B dist

N number

T color:bitmap

B ccmp

B dist

N number

B sbix

T color:overlay

B ccmp

B colr

B dist

N number

T color:svg

B ccmp

B dist

N number

B svg

T complete

S autolanguage

S autoscript

B checkmissing

B compose

B compoundhyphen

B curs

B kern

B liga

B mark

B mkmk

S mode

N number

S script

S textcontrol

B wipemath

T cy

S language

N number

S script

T cz

S language

N number

S script

T de

S language

N number

S script

T default

S autolanguage

S autoscript

B checkmissing

B compoundhyphen

B curs

B itlc

B kern

B liga

B mark

B mkmk

S mode

N number

S script

S textcontrol

B wipemath

T deo

S language

N number

S script

T devanagari-one

B abvm

B abvs

B akhn

B blwf	S script
B blwm	B vatu
B blws	T dingbats
B calt	S goodies
B cjct	S mode
B dist	N number
B half	B unicoding
B haln	T es
S indic	S language
B kern	N number
S language	S script
B locl	T et
S mode	S language
B nukt	N number
N number	S script
B pres	T f:fractions
B psts	B frac
B rkrf	N number
B rphf	T f:inferiors
S script	N number
B vatu	B subs
T devanagari-two	T f:kern
B abvm	B kern
B abvs	N number
B akhn	T f:kerns
B blwf	B kern
B blwm	N number
B blws	T f:oldstyle
B calt	N number
B cjct	B onum
B dist	T f:smallcaps
B half	N number
B haln	B smcp
S indic	T f:superiors
B kern	N number
S language	B sups
B locl	T f:tabular
S mode	N number
B nukt	B tnum
N number	T fi
B pres	S language
B psts	N number
B rkrf	S script
B rphf	T followtext

B liga	B akhn
N number	B blwf
T fr	B blwm
S language	B blws
N number	B calt
S script	B cjct
T fullprotrusion	B dist
N number	B half
S protrusion	B haln
T gr	S indic
S language	B kern
N number	S language
S script	B locl
T grek	S mode
N number	B nukt
S script	N number
T gujarati-one	B pres
B abvm	B psts
B abvs	B rkrf
B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T gurmukhi-one
B calt	B abvm
B cjct	B abvs
B dist	B akhn
B half	B blwf
B haln	B blwm
S indic	B blws
B kern	B calt
S language	B cjct
B locl	B dist
S mode	B half
B nukt	B haln
N number	S indic
B pres	B kern
B psts	S language
B rkrf	B locl
B rphf	S mode
S script	B nukt
B vatu	N number
T gujarati-two	B pres
B abvm	B pstf
B abvs	B psts

```
B rphf                                    B medi
S script                                  B mkmk
B vatu                                    S mode
T gurmukhi-two                            N number
B abvm                                    B reordercombining
B abvs                                    B rlig
B akhn                                    S script
B blwf                                 T hr
B blwm                                    S language
B blws                                    N number
B calt                                    S script
B cjct                                 T hu
B dist                                    S language
B half                                    N number
B haln                                    S script
S indic                                T indic-common
B kern                                    B abvm
S language                                B abvs
B locl                                    B akhn
S mode                                    B blwm
B nukt                                    B blws
N number                                  B calt
B pres                                    B dist
B pstf                                    B haln
B psts                                    S indic
B rphf                                    B kern
S script                                  S language
B vatu                                    B locl
T hebrew                                  S mode
B analyze                                 B nukt
S autolanguage                            N number
S autoscript                              B pres
B calt                                    B psts
B ccmp                                    B rphf
B clig                                 T inlinenumbers
B curs                                    N number
B dlig                                    B pnum
B fina                                    B tnum
B init                                 T is
B isol                                    S language
B kern                                    N number
S language                                S script
B liga                                 T it
B mark                                    S language
```

N number	B blwf
S script	B blwm
T ja	B blws
S language	B calt
N number	B cjct
S script	B dist
T jamoforms	B half
B ljmo	B haln
N number	S indic
B tjmo	B kern
B vjmo	S language
T just-os	B locl
S mode	S mode
N number	B nukt
B onum	N number
T kannada-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T la
B calt	S language
B cjct	N number
B dist	S script
B half	T latn
B haln	N number
S indic	S script
B kern	T letterspacing
S language	B ccmp
B locl	B clig
S mode	B dlig
B nukt	S keepligatures
N number	B liga
B pref	N number
B pres	B rlig
B pstf	T ligatures
B psts	S autolanguage
B rphf	S autoscript
S script	B checkmissing
T kannada-two	B compoundhyphen
B abvm	B curs
B abvs	B kern
B akhn	B liga

B	mark	B	blws
B	mkmk	B	calt
S	mode	B	cjct
N	number	B	dist
S	script	B	half
S	textcontrol	B	haln
B	wipemath	S	indic
T	lm-math-bold	B	kern
S	effect	S	language
N	number	B	locl
T	lowercasing	S	mode
B	lowercasing	B	nukt
N	number	N	number
T	malayalam-one	B	pref
B	abvm	B	pres
B	abvs	B	pstf
B	akhn	B	psts
B	blwf	B	rphf
B	blwm	S	script
B	blws	T	math
B	calt	B	compactmath
B	cjct	B	flattenaccents
B	dist	B	kern
B	half	S	language
B	haln	B	mathalternates
S	indic	S	mathexpansion
B	kern	S	mode
S	language	N	number
B	locl	S	script
S	mode	B	ssty
B	nukt	B	wipemath
N	number	T	math-script
B	pref	B	compactmath
B	pres	B	flattenaccents
B	pstf	B	kern
B	psts	S	language
B	rphf	B	mathalternates
S	script	S	mathexpansion
T	malayalam-two	S	mode
B	abvm	N	number
B	abvs	S	script
B	akhn	N	ssty
B	blwf	B	wipemath
B	blwm	T	math-scriptscript

B compactmath
B flattenaccents
B kern
S language
B mathalternates
S mathexpansion
S mode
N number
S script
N ssty
B wipemath

T math-text
B compactmath
B flattenaccents
B kern
S language
B mathalternates
S mathexpansion
S mode
N number
S script
B ssty
B wipemath

T mathematics
B compactmath
B flattenaccents
B kern
S language
B mathalternates
S mathexpansion
S mode
N number
S script
B wipemath

T mixed

T mongolian
S autolanguage
S autoscript
B calt
B checkmissing
B compoundhyphen
B curs
B fina
B init

B isol
B itlc
B kern
B liga
B mark
B medi
B mkmk
S mode
B mset
N number
B rclt
B rlig
S script
S textcontrol
B wipemath

T nl
S language
N number
S script

T none
B features
S mode
N number

T oldstyle
S autolanguage
S autoscript
B checkmissing
B compoundhyphen
B curs
B kern
B liga
B mark
B mkmk
S mode
N number
B onum
S script
S textcontrol
B wipemath

T oldstylenumbers
N number
B onum

T original
S autolanguage

```
  S autoscript              B calt
  B checkmissing            B cjct
  B compoundhyphen          B dist
  B curs                    B haln
  B itlc                    S indic
  B kern                    B kern
  B liga                    S language
  B mark                    B locl
  B mkmk                    S mode
  S mode                    B nukt
  N number                  N number
  S script                  B pres
  S textcontrol             B pstf
  B wipemath                B psts
T oriya-one                 B rphf
  B abvm                    S script
  B abvs                  T pl
  B akhn                    S language
  B blwf                    N number
  B blwm                    S script
  B blws                  T primes
  B calt                    N number
  B cjct                    B primes
  B dist                  T pt
  B haln                    S language
  S indic                   N number
  B kern                    S script
  S language              T quality
  B locl                    S expansion
  S mode                    N number
  B nukt                    S protrusion
  N number                T recommended
  B pres                    S autolanguage
  B pstf                    S autoscript
  B psts                    B calt
  B rphf                    B checkmissing
  S script                  B clig
T oriya-two                 B compoundhyphen
  B abvm                    B curs
  B abvs                    B itlc
  B akhn                    B kern
  B blwf                    B liga
  B blwm                    B mark
  B blws                    B mkmk
```

S mode	B curs
N number	B fina
B rlig	B init
S script	B isol
S textcontrol	B kern
B wipemath	S language
T reordercombining	B mark
N number	B medi
B reordercombining	B mkmk
T ro	S mode
S language	N number
N number	B rlig
S script	T simplearabic
T ru	B analyze
S language	S autolanguage
N number	S autoscript
S script	B calt
T semitic-complete	B ccmp
B analyze	B curs
S autolanguage	B fina
S autoscript	B init
B calt	B isol
B ccmp	B kern
B clig	S language
B curs	B mark
B dlig	B medi
B fina	B mkmk
B init	S mode
B isol	N number
B kern	B rlig
S language	S script
B liga	T simplehebrew
B mark	B analyze
B medi	S autolanguage
B mkmk	S autoscript
S mode	B calt
N number	B ccmp
B rlig	B curs
T semitic-simple	B fina
B analyze	B init
S autolanguage	B isol
S autoscript	B kern
B calt	S language
B ccmp	B mark

```
B medi                              B dlig
B mkmk                              B fin2
S mode                              B fin3
N number                            B fina
B rlig                              B init
S script                            B isol
T sk                                B kern
S language                          S language
N number                            B liga
S script                            B mark
T sl                                B med2
S language                          B medi
N number                            B mkmk
S script                            S mode
T slanted                           N number
N number                            B rlig
N slant                             S script
T smallcaps                         T system:tabnum
S autolanguage                      B lnum
S autoscript                        N number
B checkmissing                      B tnum
B compoundhyphen                    T tabledigits
B curs                              N number
B kern                              B tabledigits
B mark                              B tnum
B mkmk                              T tabularnumbers
S mode                              N number
N number                            B pnum
S script                            B tnum
B smcp                              T tamil-one
S textcontrol                       B abvm
B wipemath                          B abvs
T sv                                B akhn
S language                          B blwm
N number                            B blws
S script                            B calt
T syriac                            B dist
B analyze                           B half
S autolanguage                      B haln
S autoscript                        S indic
B calt                              B kern
B ccmp                              S language
B clig                              B locl
B curs                              S mode
```

B nukt		B locl	
N number		S mode	
B pref		B nukt	
B pres		N number	
B psts		B pref	
B rphf		B pres	
S script		B pstf	
T tamil-two		B psts	
B abvm		B rphf	
B abvs		S script	
B akhn		T telugu-two	
B blwm		B abvm	
B blws		B abvs	
B calt		B akhn	
B dist		B blwf	
B half		B blwm	
B haln		B blws	
S indic		B calt	
B kern		B cjct	
S language		B dist	
B locl		B half	
S mode		B haln	
B nukt		S indic	
N number		B kern	
B pref		S language	
B pres		B locl	
B psts		S mode	
B rphf		B nukt	
S script		N number	
T telugu-one		B pref	
B abvm		B pres	
B abvs		B pstf	
B akhn		B psts	
B blwf		B rphf	
B blwm		S script	
B blws		T th	
B calt		S language	
B cjct		N number	
B dist		S script	
B half		T tibetan	
B haln		B abvm	
S indic		B abvs	
B kern		S autolanguage	
S language		S autoscript	

```
  B blwm                          B kern
  B blws                        S language
  B calt                          B mathalternates
  B ccmp                        S mathexpansion
  B checkmissing                S mode
  B compoundhyphen              N number
  B curs                        S script
  B kern                          B wipemath
S language                    T vn
  B liga                        S language
  B locl                        N number
  B mark                        S script
  B mkmk                      T zero
S mode                          N number
N number                        B zero
S script                      F showcontext
S textcontrol                 F splitcontext
  B wipemath                  D synonyms
T tr                          D variants
S language
N number                  symbols               table
S script                    T emoji
T uk                          F checked
S language                    F resolved
N number                    F uselibrary
S script
T uppercasing             tables                 table
N number                  toeffect               function
  B uppercasing           tracers                table
T us                      treatments             table
S language                  F applyfixes
N number                    D data
S script                    S filename
T virtualmath               F ignoredfile
  B compactmath             F report
  B flattenaccents           F trace
                          typefaces              table
```

functions (context)

dummy function

globaldata (context)

CONTEXTLMTXMODE	number	F	colorcomponents
LUAFORMAT	number	D	counts
LUAMAJORVERSION	number	B	couple
LUAMINORVERSION	number	F	currentmodel
LUATEXENGINE	string	F	currentnamedmodel
LUATEXFORMATID	number	D	data
LUATEXFUNCTIONALITY	number	N	default
LUATEXVERBOSE	string	F	defineintermediatecolor
LUATEXVERSION	number	F	definemultitonecolor
LUAVERSION	number	F	defineprocesscolor
MP	function	F	defineprocesscolordirect
SAVEDREQUIRE	function	F	definesimplegray
aes	table	F	definespotcolor
F decode		F	definetransparency
F encode		F	enable
F random		F	filter
arg	table	N	forced
assert	function	F	forcedmodel
attributes	table	F	forcesupport
T alternates		F	formatcolor
N attribute		F	formatgray
D data		F	formatluminance
F enable		F	formatluminanceratio
F handler		F	getpagecolormodel
F register		F	gray
D registered		F	graytohsv
D values		F	handler
F applyoverloads		F	hsvtogray
F checkvalues		F	hsvtorgb
T colorintents		F	hwbtorgb
N attribute		F	iccprofile
D data		F	isblack
F enable		F	labtolch
F handler		F	labtorgb
F register		F	labtoxyz
D registered		F	lchtolab
T colors		F	lchtorgb
N attribute		N	main
F cmyk		S	model
F cmyktogray		D	models
F cmyktorgb		F	mpcolor

F mpnamedcolor	F register
F mpoptions	D registered
F namedcolorattributes	D values
N none	F getvalue
F popset	F getvalues
F processcolorcomponents	T handlers
F pushset	F hasvalues
F register	D list
D registered	F markasoverload
F registerspotcolor	D names
F rgb	T negatives
F rgbbytes	N attribute
F rgbtocmyk	D data
F rgbtogray	F enable
F rgbtohsv	F handler
F rgbtoxyz	F register
N selector	D registered
F setlist	F set
F setmodel	D numbers
F setpagecolormodel	F ofnode
D sets	F private
F spec	F public
F spot	F registervalue
F spotcolorname	F restore
F spotcolorparent	F save
F spotcolorvalue	F setcleaner
B supported	F showcurrent
F toattributes	T states
F transparencycomponents	F disabletriggering
B triggering	F enabletriggering
F usecolors	F finalize
D valid	F initialize
F value	F process
D values	F selective
B weightgray	F simple
F xyztolab	F stacked
F xyztorgb	F stacker
D counts	F system
F define	F tooverloads
T effects	T transparencies
N attribute	N attribute
D data	D data
F enable	F enable
F handler	F forcesupport

F handler

N none

F register

D registered

B supported

F toattribute

B triggering

F value

D values

N unsetvalue

D values

T viewerlayers

  N attribute

  F cleanup

  D data

  F define

  F definedlayoutcomponent

  F enable

  F forcesupport

  F handler

  B hasorder

  D listwise

  F register

  D registered

  F resolve_begin

  F resolve_end

  F resolve_reset

  F resolve_step

  D scopes

  F setfeatures

  F setup

  F start

  F stop

  B supported

  D values

backends   table

  F closeout

  T codeinjections

  F registerboxresource

  F registerfont

  F restoreboxresource

  S current

  T defaults

  D tables

F getcallbackstate

T included

  B context

  B date

  B id

  B metadata

  B pdf

F initialize

F latelua

T nodeinjections

F nothing

F openout

T registered

T registrations

F setencryption

T tables

F writeout

basexx   table

  F decode16

  F decode64

  F decode85

  F decodeLZW

  F decodeRL

  F encode16

  F encode64

  F encode85

  F encodeLZW

  F encodeRL

bibtex   table

bit32   table

  F arshift

  F band

  F bnot

  F bor

  F btest

  F bxor

  F extract

  F lrotate

  F lshift

  F replace

  F rrotate

  F rshift

blobs   table

  F append

F dimensions			F checksidefloat	
F dispose			T hpack	
F new			F qualityactions	
F pack			F report	
F strdp			F show	
F strhd			T kernel	
F strht			F collapsing	
F strwd			F hyphenating	
F tohpack			F kerning	
F tonodes			F ligaturing	
F tovpack			F mlisttohlist	
F write			T paragraphs	
boolean	table		F keeptogether	
F tocontext			F registertogether	
F tonumber			F tag	
buffers	table		F parpassidentifier	
F append			D passnames	
F assign			T profiling	
F collectcontent			F add	
F empty			F addrivers	
F erase			F boxlinehandler	
F exists			F distance	
F get			F fixedprofile	
F getcontent			F get	
F getctxlua			F getrivers	
F getlines			F list	
F getmkvi			F pagehandler	
F gettex			F pagelinehandler	
F loadcontent			F profilebox	
T parallel			F profilelines	
F define			F set	
F hassomecontent			F setlines	
F next			F registerpaspasscallback	
F place			T vpack	
F reset			F qualityactions	
F save			F report	
F prepend			T vspacing	
F raw			D categories	
F run			F checkstrutdepth	
F samplefile			F collapsevbox	
F splitsamplefile			F definesnapmethod	
F undent			B fixed	
builders	table		F flushcontributions	
F checkparcontext			F forcepageflush	

F	forcestrutdepth	F	slicergb
F	getnofpreviouslines	**caches**	table
F	inject	S	base
F	injectdisable	F	collapsecontent
F	injectnowhite	F	configfiles
F	injectpenalty	F	contentstate
F	injectskip	T	defaults
F	interceptsamepagecontent	F	getfirstreadablefile
F	pagehandler	F	getreadablepaths
F	pageoverflow	F	getwritablepath
F	popatsame	F	hashed
F	pushatsame	F	is_writable
F	setmap	F	loadcontent
F	setskip	F	loaddata
F	snapbox	S	more
F	synchronizepage	F	savecontent
F	tocategories	F	savedata
F	tocategory	F	setfirstwritablefile
F	vboxhandler	F	setluanames
bytemap	table	F	treehash
F	bounds	F	usedpaths
F	clip	**callback**	table
F	copy	F	find
F	dimensions	F	getindex
F	domain	F	getoptions
F	downgrade	F	getoptionvalues
F	downsample	F	getstate
F	getbyte	F	getstatevalues
F	getbytes	F	known
F	getvalue	F	list
F	hasbytegray	F	names
F	hasbyterange	F	register
F	hasbytergb	F	setoptions
F	new	F	setstate
F	newdomain	F	testonly
F	process	F	usage
F	reduce	**callbacks**	table
F	reset	F	freeze
F	setgray	T	functions
F	setgrayadd	F	start_page_number
F	setgraymin	F	stop_page_number
F	setrgb	F	getcomment
F	slicegray	F	getstates
F	slicerange	F	known

T list
  N alignment
  N append_adjust
  N append_line
  N append_migrate
  N append_to_vlist
  N balance_boundary
  N balance_check
  N balance_insert
  N begin_paragraph
  N buildpage
  N define_font
  N delayed_glue
  N find_format_file
  N find_log_file
  N get_attribute
  N get_math_dictionary
  N get_noad_class
  N glyph_run
  N handle_overload
  N handle_uinsert
  N handle_uleader
  N hpack
  N hpack_quality
  N hyphenate
  N insert_boundary
  N insert_check_split
  N insert_distance
  N insert_par
  N intercept_lua_error
  N intercept_tex_error
  N italic_correction
  N kerning
  N ligaturing
  N linebreak
  N linebreak_check
  N linebreak_quality
  N local_box
  N make_extensible
  N math_rule
  N missing_character
  N mlist_to_hlist
  N open_data_file
  N packed_vbox

  N page_boundary
  N paragraph_context
  N paragraph_pass
  N post_linebreak
  N pre_dump
  N pre_linebreak
  N pre_output
  N process_character
  N process_jobname
  N quality_font
  N register_extensible
  N show_build
  N show_error_message
  N show_loners
  N show_lua_call
  N show_vsplit
  N show_warning_message
  N show_whatsit
  N start_file
  N start_run
  N stop_file
  N stop_run
  N tail_append
  N test_only
  N trace_memory
  N vpack
  N vpack_quality
  N wrapup_run
T names
F optimizer
T optionbits
T optioncodes
  N direct
  N trace
F pop
F push
F register
F report
T statebits
T statecodes
  N disabled
  N frozen
  N fundamental
  N private

N selective		D graphemes	
N set		D hangul	
N touched		T indicgroups	
N tracing		F initialize	
catcodes	**table**	D is_character	
D names		D is_command	
D numbers		D is_hyphenator	
F register		D is_letter	
characters	**table**	D is_mark	
F addcharacternames		D is_nothing	
F adobename		D is_punctuation	
D bidi		D is_spacing	
F blockrange		D is_symbol	
D blocks		D lcchars	
D can_have_space		F lccode	
T casemap		D lccodes	
D categories		F lettered	
F category		D lhash	
D categorytags		D linebreaks	
T classifiers		F lower	
D collapsed		D mathlists	
D combined		T mirrors	
F contextname		D otfscripts	
D csletters		D ranges	
D data		F registerentities	
D decomposed		F remap_hangul_syllabe	
F description		T scripthash	
D descriptions		F setactivecatcodes	
D detailtags		F setlettercatcodes	
T directions		F setothercatcodes	
T emoji		F shape	
F compact		F shaped	
F known		D shash	
F resolve		D shchars	
F emojized		D shcodes	
D enccodes		F showstring	
D entities		D specialchars	
D fallbacks		D specials	
D filters		T splits	
T fractions		T subscripts	
F fromnumber		T superscripts	
D fschars		D synonyms	
D fscodes		T tex	
F getrange		D accentmapping	

D	commandmapping		F	MPpardata
F	defineaccents		F	MPplus
F	safechar		F	MPpos
F	strtextoutf		F	MPr
F	strtoutfpattern		F	MPrest
F	toutf		F	MPrs
F	toutfpattern		F	MPul
T	textclasses		F	MPur
F	tonumber		F	MPw
D	ucchars		F	MPwhd
F	uccode		F	MPx
D	uccodes		F	MPxy
D	uhash		F	MPxywhd
F	unicodechar		F	MPy
F	upper		F	Romannumerals
D	verbosemarks		F	actualday
chemistry	table		F	actualmonth
F	component		F	actualyear
F	define		F	adaptfontfeature
D	definitions		F	adaptivecheckbox
S	format		F	addbtxentry
F	inlinechemical		F	addcounter
S	instance		F	adddefaultsuffix
S	method		F	addfeature
F	molecule		F	addfontpath
U	moleculeparser		F	addgrapheme
F	start		F	addlinenumbers
F	stop		F	addlinklistelement
T	syntax		F	addreplacements
F	undefine		F	addreplacementslist
collectgarbage	function		F	addrivers
commands	table		F	addtocolumnset
F	Alphabetic		F	addtocolumnsetmvl
F	MPLIBconvertfollowtext		F	addtojavascriptpreamble
F	MPLIBconvertoutlinetext		F	addtolist
F	MPc		F	align_point_delta
F	MPd		F	allinputpaths
F	MPfromhash		F	alphabetic
F	MPh		F	analysefloatmethod
F	MPll		F	analyzeitemgroup
F	MPlr		F	analyzelist
F	MPls		F	analyzelocalanchors
F	MPn		F	analyzeregister
F	MPp		F	analyzerotate

F analyzeupcomingitemgroup	F boxline
F applypattern	F boxlinedp
F applytobox	F boxlineht
F applytofirstcharacter	F boxlineil
F arraycompare	F boxlinein
F arrayequals	F boxlineir
F arraymaxvalue	F boxlinelh
F arrayminvalue	F boxlinelp
F arraysize	F boxlinels
F arrayvalue	F boxlinemaxdp
F ascender	F boxlinemaxht
F askedreference	F boxlinemaxwd
F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinenw
F attachinsertions	F boxlinerh
F atwordboundary	F boxlinerp
F autofinishstructurelevels	F boxliners
F autoinsertnextspace	F boxlines
F automigrationcodestring	F boxlinewd
F autonextstructurelevel	F boxoptioncodestring
F autorule	F boxrangedp
F autosetups	F boxrangeht
F autostarttext	F boxrangewd
F autostoptext	F boxtostring
F badnessmodecodestring	F bposcolumn
F balanceshapeextra	F bposcolumnregistered
F benchmarktimer	F bs
F bf	F btxabbreviatedjournal
F bi	F btxaddentry
F bitmapimage	F btxaddjournal
F bitwise	F btxauthor
F bitwiseand	F btxauthorfield
F bitwiseflip	F btxauthortoregister
F bitwisenil	F btxcmdstring
F bitwisenot	F btxcollectlistentries
F bitwiseor	F btxcurrentfirstnames
F bitwiseset	F btxcurrentinitials
F bitwiseshift	F btxcurrentjuniors
F bitwisexor	F btxcurrentsurnames
F blockcolumnset	F btxcurrentvons
F blockligatures	F btxdetail
F boolcase	F btxdirect
F boxdir	F btxdoif

F btxdoifelse

F btxdoifelsecitedone

F btxdoifelsecombiinlist

F btxdoifelsematches

F btxdoifelsesameasprevious

F btxdoifelseuservariable

F btxdoifnot

F btxentrytobuffer

F btxentrytostring

F btxexpandedjournal

F btxfetchlistentries

F btxfield

F btxfirstofrange

F btxflush

F btxflushlistcombi

F btxflushlistentry

F btxflushlisttag

F btxflushmarked

F btxflushpages

F btxhandlecite

F btxhandlenocite

F btxlastofrange

F btxlistvariant

F btxloaddefinitionfile

F btxloadjournallist

F btxloadreplacementfile

F btxmissing

F btxoneorrange

F btxpreparelistentries

F btxremapauthor

F btxsavedataset

F btxsavejournallist

F btxsetdataset

F btxsetentry

F btxsetregister

F btxsetspecification

F btxshortcut

F btxshowauthorremapping

F btxsingularorplural

F btxtoregister

F btxusedataset

F btxuservariable

F build_page_after_shipout

F build_page_before_shipout

F build_page_setup

F capheight

F charactercontrolcodestring

F chardescription

F checkcolumnset

F checkcolumnsetmvl

F checkcountersetup

F checkedconversion

F checkedemoji

F checkedpagefloat

F checkinjector

F checkinterfacechain

F checkmarkedpages

F checknesting

F checkspacingavailable

F checkstrutdepth

F chemicalcomponent

F chinesenumerals

F chr

F classoptioncodestring

F cleancolumnset

F cleanfontname

F cleanupattributes

F cleanupbox

F cleanuplayers

F clonefield

F closein

F closeout

F codedef

F collectedmath

F collectfloat

F collecthelp

F columnsetbalancefirst

F columnsetbalancelast

F columnsetbalancepage

F columnsetcolumnwidth

F columnsetdisablewide

F columnsetenablewide

F columnsetgoto

F columnsethascontent

F columnsethspan

F columnsetlastfuture

F columnsetlastmvl

F columnsetlimit

F	columnsetnoto	F	currentenvironment
F	columnsetresetdirect	F	currentfontinstancespec
F	columnsetresetshapeextra	F	currentposthyphenchar
F	columnsetreshape	F	currentprehyphenchar
F	columnsetsblockrows	F	currentproduct
F	columnsetsetshapeextra	F	currentproject
F	columnsetshape	F	currentsectiontolist
F	columnsetshapebalancecheck	F	datasetsize
F	columnsetshapebalanceextend	F	datasetvariable
F	columnsetshapecolumn	F	day
F	columnsetshapecount	F	daymnem
F	columnsetshapeindex	F	dayname
F	columnsetshapepage	F	decimals
F	columnsetshapesetbalancerange	F	decrementcounter
F	columnsetshapeslots	F	decrementsubcounter
F	columnsetshapespread	F	deferredenhancelist
F	columnsetshapevsize	F	deferredenhancereference
F	columnsetshapeworst	F	deferredenhanceregister
F	columnsetshowgrid	F	defineaccents
F	columnsetshowshape	F	defineattribute
F	columnsetshowtracedgrid	F	defineboundary
F	columnsetstate	F	definebreakpoint
F	columnsetstatus	F	definebreakpoints
F	combineglyphs	F	definecharacterspacing
F	component	F	definechemical
F	concatcommalist	F	definecolumnset
F	consultfloat	F	defineconversion
F	continueifinputfile	F	definecounter
F	convertbtxdatasettoxml	F	definedlayoutcomponent
F	converteddimen	F	definefallbackfamily
F	convertmpstopdf	F	definefield
F	copyboxfromcache	F	definefieldset
F	copyboxline	F	definefilefallback
F	copyposition	F	definefilesynonym
F	cos	F	definefont_one
F	cosd	F	definefont_two
F	ctxfunction	F	definefontcolorpalette
F	ctxluamatch	F	definefontfamily
F	ctxluamatchfile	F	definefontfamilypreset
F	ctxresetter	F	definefontfeature
F	ctxscanner	F	definefontscriptset
F	currentcomponent	F	definefontsolution
F	currentdate	F	definehyphenationfeatures
F	currentdesignsize	F	defineinsertion

F defineintermediatecolor
F definelabcolorglobal
F definelabcolorlocal
F definelabels
F definelanguage
F definelinkedlist
F definemathpreset
F definemultitonecolorglobal
F definenamespace
F definenote
F defineparallel
F defineparbuilder
F defineprocesscolordummy
F defineprocesscolorglobal
F defineprocesscolorlocal
F defineprogram
F definereference
F defineregister
F definesectionlevels
F definespotcolorglobal
F definestructureblock
F definestructureset
F definesubcolumnset
F definetransparency
F definetransparencyglobal
F definetypeface
F defineviewerlayer
F delayedcolumnsetsheet
F depthnumber
F depthofstring
F descender
F detachinsertions
F diagnostic
F digits_normal
F digits_reverse
F directboxfromcache
F disableautofontscript
F disablecollectingmath
F disabledirectives
F disableexperiments
F disablejobsave
F disableparbuilder
F disableregime
F disablespellchecking

F disablestatetriggering
F disablestream
F disabletrackers
F discardfromlist
F discoptioncodestring
F disposeboxesincache
F disposeluatable
F doanalyzeframedbox
F doif
F doifcounter
F doifelse
F doifelseblack
F doifelseboxincache
F doifelsebuffer
F doifelsebufferempty
F doifelsecharinfont
F doifelseconverter
F doifelsecounter
F doifelsecurrentfonthasfeature
F doifelsedimenstring
F doifelsedrawingblack
F doifelsefieldcategory
F doifelsefieldset
F doifelsefiledefined
F doifelsefileexist
F doifelsefirstchar
F doifelsefirstsectionpage
F doifelsefontfeature
F doifelsefontpresent
F doifelseindented
F doifelseinelement
F doifelseinputfile
F doifelseleapyear
F doifelselisthasentry
F doifelselisthasnumber
F doifelselisthaspage
F doifelselisthastitle
F doifelsemarkedcontent
F doifelsemarkedpage
F doifelsemessage
F doifelsenoteonsamepage
F doifelseobjectfound
F doifelseobjectreferencefound
F doifelseolderversion

F doifelseoverlapping

F doifelseparallel

F doifelseparentfile

F doifelsepathexist

F doifelsependingpagecontent

F doifelseposition

F doifelsepositiononpage

F doifelsepositionsonsamepage

F doifelsepositionsonthispage

F doifelsepositionsused

F doifelserangeonpage

F doifelsereference

F doifelsereferencechecked

F doifelsereferenced

F doifelserighttoleftinbox

F doifelsesame

F doifelsesomething

F doifelsespaces

F doifelsestackedfloats

F doifelsestructureblocksempty

F doifelsesynonymshown

F doifelsesynonymused

F doifelsetaggednoteonsamepage

F doifelseurldefined

F doifelseutfmathaccent

F doifelseutfmathfiller

F doifelseutfmathlimop

F doifelsevalidhashedfiles

F doifelsevisualizer

F doifmarkedpage

F doifnot

F doifnotcounter

F doifnotecontent

F doifnotsame

F doifnotthing

F doifposition

F doifsame

F doifsomething

F doifunknownfontfeature

F domainattribute

F doreshapeframedbox

F doresyncframedbox

F dosaveposition

F dosavepositionplus

F dosavepositionwhd

F dosetposition

F dosetpositionbox

F dosetpositionplus

F dosetpositionstrut

F dosetpositionstrutkind

F dosetpositionwhd

F dostarttextfile

F dostoptextfile

F doublescriptmodecodestring

F droptablegroup

F elapsedsteptime

F elapsedtime

F embedimagefromstore

F enablealignmentcharacter

F enablealignskips

F enableasciimode

F enableautofences

F enableautofontscript

F enablebackgroundalign

F enablebackgroundboxes

F enablecollectingmath

F enablecolor

F enablecolorintents

F enablecrlf

F enabledirectives

F enabledriver

F enableexperiments

F enablefontcolorschemes

F enablehidecontent

F enablemathalignrelocate

F enablematrixornaments

F enablematrixrules

F enableparbuilder

F enableregime

F enablescriptunstacking

F enablesidefloatchecker

F enablespellchecking

F enablestacking

F enablestatetriggering

F enablestream

F enableswapping

F enabletighten

F enabletrackers

F enabletransparency	F flagcodestring
F enableutf	F flushcolumnsetareas
F enhancelinkedlist	F flushcolumnsetcolumn
F enhancelist	F flushfloat
F enhanceregister	F flushlabeledfloat
F enhancesynonym	F flushnoterange
F environment	F flushnotes
F eposcolumn	F flushpageblocks
F eposcolumnregistered	F flushpageinjectionsafter
F erasebuffer	F flushpageinjectionsbefore
F execute	F flushpostponedblocks
F exportbox	F flushpostponednotes
F exportformdata	F flushstream
F exportreferences	F flushstreamcopy
F expression	F fontchar
F extendregister	F fontcharbyindex
F extendregisterlate	F fontcollectionclone
F extensiblecode	F fontcollectiondefine
F fakeword	F fontcollectionprepare
F featureattribute	F fontcollectionregister
F feedback	F fontcollectionreport
F fetchlanguagetext	F fontcollectionreset
F fetchmultipar	F fontlookupgetkey
F fetchposboxes	F fontlookupgetkeyofindex
F fetchterminaldata	F fontlookupinitialize
F figure_flush_registered_pages	F fontlookupnoffound
F figure_mergegoodies	F forceendjob
F figure_nof_registered_pages	F forcepageflush
F figure_register_page	F forcequitjob
F figuresetdimensions	F forcestrutdepth
F filebasename	F format
F filedirname	F formatcolor
F filenameonly	F formatgray
F filesuffix	F formatluminance
F filterdefaultreference	F formatluminanceratio
F filterreference	F formatone
F finalizeobjectbox	F framedoutline
F finalizeshipoutbox	F from
F findregisterinternal	F frozenparcodestring
F finishcolumnsetflush	F frule
F finishexport	F getMPdata
F firstinset	F getbidimode
F firstsectionpage	F getbodyfontsizes
F firstsubcountervalue	F getboxcountfromcache

F getboxdpfromcache	F getobjectdimensions
F getboxfromcache	F getobjectreference
F getboxhtdpfromcache	F getobjectreferencepage
F getboxhtfromcache	F getparshape
F getboxwdfromcache	F getparwrapper
F getbuffer	F getprivatechar
F getbuffercontent	F getprivateglyphslot
F getbufferctxlua	F getprivatemathchar
F getbuffermkvi	F getprivateslot
F getbuffertex	F getprogram
F getcharactercasingcategory	F getrandomdimen
F getclubpenalties	F getrandomfloat
F getcurrentprefixspec	F getrandomnumber
F getcurrentreferencelabel	F getrandomseed
F getcurrentreferencemetadata	F getreadfilename
F getdefaultfieldvalue	F getreferencesectionnumber
F getdisplaywidowpenalties	F getrivers
F getdocumentargument	F getsetupstring
F getdocumentfilename	F getshapeparameter
F getfieldcategory	F getsomefullstructurenumber
F getfile	F getsomestructurenumber
F getfirstcharacter	F getspecificstructuretitle
F getfloatvariable	F getstructurelevel
F getfromluatable	F getstructurenumber
F getfullstructurenumber	F getsubstring
F getinterlinepenalties	F getsynchronizemarking
F getinternalcachedlistreference	F geturl
F getinternallistreference	F getvisual
F getinternalorderreference	F getwidowpenalties
F getmathblobindex	F globalpopmacro
F getmathblobmapping	F globalpushmacro
F getmathcharone	F gluetolinesinbox
F getmathchartwo	F glyphoptioncodestring
F getmathmathblob	F gobblenested
F getmathtextblob	F gotocolumnsetslot
F getmathvariant	F grabbuffer
F getmessage	F groupcodestring
F getmpextensions	F groupsetgroup
F getnaturaldimensions	F grph_nodes_initialize
F getnaturalwd	F grph_nodes_register
F getnofpreviouslines	F grph_nodes_reset
F getnotestate	F grph_nodes_resolve
F getnotestorecount	F handlemathhang
F getnotestoreflushed	F hboxtovbox

F heightofstring

F helpaction

F helppreference

F hour

F hpackbox

F hpackedbox

F hsplit

F hyphenateddigits

F hyphenatedlist

F hyphenationcodestring

F ic

F idxfromluatable

F if_common

F ifallmodes

F ifbitwiseand

F ifblobindexdone

F ifboxhaslist

F ifcommon

F ifeof

F ifgluelineinbox

F ifinset

F iflua

F ifmode

F ifmodes

F ifmvl

F ifpositunum

F ifsetups

F ifsystemmode

F iftext

F ifxml

F ifxmlatt

F ifxmlattempty

F ifxmlempty

F ifxmlselfempty

F ifxmltext

F ignorefile

F ignoretagsinexport

F immediatemessage

F includesvgbuffer

F includesvgfile

F incrementcounter

F incrementsubcounter

F inhibitprimitive

F initializeexport

F initializejob

F initializemathcollapsing

F initializemathfencing

F initializemathitalics

F initializemathkernpairs

F initializemathnumbers

F initializemathspacing

F initializestream

F initializetexdirectives

F initializetexexperiments

F initializetextrackers

F injectcurrentreference

F injectcurrentreferencehtdp

F injectdisable

F injectnowhite

F injectreference

F injectvpenalty

F injectvskip

F injectvspacing

F injectzerobaselineskip

F inlinechemical

F inputfilebarename

F inputfilename

F inputfilerealsuffix

F inputfilesuffix

F insertattachment

F insertcategorycodestring

F insertcomment

F insertfield

F insertionnumber

F insertoptioncodestring

F insertrenderingwindow

F inspectluatable

F installedlanguages

F installtexdirective

F installtexexperiment

F installtextracker

F interceptsamepagecontent

F it

F jobfilefullname

F jobfilename

F jobfilesuffix

F jobposd

F jobposh

F jobposp	F listsigncodestring
F jobposw	F listsize
F jobposx	F listtitle
F jobposy	F listuserdata
F languagecharwidth	F lmt_parameters_define
F languagenumber	F lmt_parameters_preset
F lastblobindex	F lmt_parameters_reset
F lastnodeequals	F loadcldfile
F lastnodeid	F loadcldfileonce
F lastnodeidstring	F loadexamodes
F lastnodesubtypestring	F loadfontgoodies
F lastparwrapper	F loadlibrary
F lastrpos	F loadluafile
F lastsavedboxresourceindex	F loadluafileonce
F lastsavedimageresourceindex	F loadluamodule
F lastsavedimageresourcepages	F loadmapfile
F lastsectionpage	F loadmapline
F lastsubcountervalue	F loadspellchecklist
F lastunitstring	F loadtexfile
F lastxpos	F loadtexfileonce
F lastypos	F loadtypescriptfile
F lateindent	F loadvisualizer
F latelua	F loadxmlfile
F lateundent	F loadxmlfileonce
F lchexnumber	F localanchorx
F lchexnumbers	F localanchory
F leapyear	F localboxindent
F limitated	F localboxindex
F linebuffering	F localboxlefthang
F linedir	F localboxleftoffset
F lineprofilebox	F localboxleftskip
F linesegment	F localboxlinenumber
F listanchorcodestring	F localboxlinewidth
F listbookmark	F localboxlocalwidth
F listexternal	F localboxmarkonce
F listgroupindex	F localboxovershoot
F listlabel	F localboxparfillleftskip
F listlocation	F localboxparfillrightskip
F listnamespaces	F localboxparinitleftskip
F listprefixednumber	F localboxparinitrightskip
F listprefixedpage	F localboxprogress
F listrawnumber	F localboxrighthang
F listrawrealpage	F localboxrightoffset
F listrawuserpage	F localboxrightskip

F localpopmacro	F metapostformatted
F localpushmacro	F metapostgraphformat
F locatefilepath	F minute
F loopcs	F mixcleanup
F loopcsn	F mixfinalize
F lousiness	F mixflushlist
F luacardinal	F mixflushrest
F luacount	F mixgetsplit
F luadimen	F mixsetsplit
F luaexpression	F mixstate
F luafloat	F modecodestring
F luainteger	F molecule
F luanumber	F month
F luarandom	F monthmnem
F luascript	F monthname
F luathread	F mpblobtext
F lxmlid	F mpcolor
F manipulated	F mpgetblob
F markblobindexdone	F mpgettext
F markcontent	F mpgraphic
F markedpageparameter	F mpgraphictexttoks
F markedpages	F mpoptions
F markingnumber	F mpoutlinetoks
F markingtitle	F mppopvariables
F markinjector	F mppushvariables
F markpage	F mprunset
F markregionbox	F mpruntab
F markregionboxcorrected	F mprunvar
F markregionboxtagged	F mpsetclippath
F markregionboxtaggedkind	F mpsetoutercolor
F markregionboxtaggedn	F mpsetsxsy
F markvisualfonts	F mpsettext
F mathclassvalue	F mptexget
F mathcontrolcodestring	F mptexreset
F mathhorizontalcode	F mptexset
F mathoptioncodestring	F mptexsetfrombuffer
F mathrenderset	F mptexttoks
F mathstrutcode	F mvloptioncodestring
F mathvariantcode	F namedstructureuservariable
F mathvariantcount	F namedstructurevariable
F mathvariantslot	F naturalwd
F maxbufferwidth	F negatedcolorcomponent
F message	F newarray
F metapostescaped	F newhashedtable

F newindexedtable

F newluatable

F newparwrapper

F newrepeatablerandom

F newstacking

F nextparallel

F nextsubcountervalue

F nodimen

F nofbufferlines

F nofconversions

F nofdays

F nofdetachedinsertions

F noflinesinbox

F nofmathvariants

F nofstackedfloats

F nologbuffering

F normalizecodestring

F normalizedbodyfontsize

F normalizeparcodestring

F nospacesmodecodestring

F notedeltapage

F noteinternal

F notelistindex

F noteprefixednumber

F notetitle

F ntb_split_section_check

F ntb_split_section_fetch

F ntb_split_section_locate

F ntb_split_section_reset

F ntimes

F number

F numbers

F objectreference

F objectreferencepage

F octnumber

F openin

F openout

F operatingsystem

F ordinal

F outputfilename

F overloadbookmark

F overloadlowercase

F overloadsattribute

F overloaduppercase

F pageblockrealpage

F pageofinternal

F pageoverflow

F pagestaterealpage

F pagestaterealpageorder

F paragraphfillmodecodestring

F paragraphoptioncodestring

F parcontextcodestring

F pardir

F parpasscallback

F parpassidentifier

F parpos

F partriggercodestring

F pdfbackendcurrentresources

F pdfbackendsetcatalog

F pdfbackendsetcolorspace

F pdfbackendsetextgstate

F pdfbackendsetinfo

F pdfbackendsetname

F pdfbackendsetpageattribute

F pdfbackendsetpageresource

F pdfbackendsetpagesattribute

F pdfbackendsetpattern

F pdfbackendsetshade

F pdfcolor

F pdfextension

F pdffeedback

F pdflastobj

F pdfliteral

F pdfobj

F pdfrefobj

F pdfsetuserdata

F pdfvariable

F percentageof

F pfabs

F pfacos

F pfacosh

F pfasin

F pfasinh

F pfatan

F pfatanh

F pfatantwo

F pfceil

F pfcos

F pfcosh	F presetmathematics
F pfdeg	F presetmathfontalternate
F pfexp	F presetsymbollist
F pffloor	F previoussubcountervalue
F pflog	F privatecharacter
F pfmod	F privatecharactercode
F pfpow	F processbodyfontsizes
F pfrad	F processbuffer
F pfrem	F processcollectedmath
F pfround	F processedfile
F pfsin	F processedfiles
F pfsinh	F processfile
F pfsqrt	F processfilemany
F pftan	F processfilenone
F pftanh	F processfileonce
F pgfxcolorspec	F processjob
F pickupbuffer	F processlist
F pickupmarkedcontent	F processregister
F pickuppunctuation	F processsplit
F placeparallel	F processsynonyms
F popfloat	F product
F pophyphenation	F profilebox
F poplist	F profilemacro
F poplocalanchors	F project
F poplogfile	F pruneboxesincache
F popparagraphtweak	F purefontname
F poppath	F pushfloat
F poprandomseed	F pushhyphenation
F popreferenceprefix	F pushlist
F popregime	F pushlocalanchors
F poprunstate	F pushlogfile
F popsectionblock	F pushparagraphtweak
F positunum	F pushpath
F positunumdef	F pushrandomseed
F postlistbox	F pushreferenceprefix
F postlistcopy	F pushregime
F postponenotes	F pushrunstate
F prefixedconverted	F pushsectionblock
F prelistbox	F pushstream
F prelistcopy	F putboxincache
F preparecolumnsetflush	F putincolumnset
F prerolledpages	F putincolumnsetdirect
F presetcolumnsetsheets	F putnextboxincache
F presetcolumnsetspreadsheets	F qrcodebuffer

F qrcodestring	F registerlabel
F rawMPdata	F registerlanguagefeatures
F rawcharacter	F registerlinenumbering
F rawsetupstring	F registermaintextcolor
F rawsubcountervalue	F registermpextensible
F read	F registernamedlua
F readfromterminal	F registernamespace
F readline	F registerobject
F readlinedirect	F registerpattern
F recolorbox	F registerpostponedblock
F referencecolumn	F registerreferencedobject
F referencepagedetail	F registerrendering
F referencepagestate	F registersection
F referenceposx	F registershownsynonym
F referenceposy	F registersnaprange
F referencerealpage	F registerstructureprocessor
F registeranchorbox	F registersynchronize
F registerattachment	F registersynonym
F registerbackendsymbol	F registertransliteration
F registerbackground	F registerunit
F registerbodyfontsize	F registerunitshortcut
F registerbookmark	F registerunknownbodysize
F registerboxglyph	F registerusedsynonym
F registerbuttons	F registeruserdata
F registercolorintent	F registerverbosemathlabel
F registercolumnsetarea	F removelastline
F registercolumnsetsheet	F renderingvar
F registercolumnsetspreadsheets	F reorderfloats
F registerengineclass	F replacefeature
F registerfallbackfont	F replacepospxywhd
F registerfiguremask	F replacewildcard
F registerfigurepattern	F reportstructure
F registerfigurerange	F resavefloat
F registerfiguresuffix	F reservedautoregiontag
F registerfilescheme	F resetMPinstance
F registerfontalternative	F resetalternate
F registerfontfamily	F resetbackgroundrowdata
F registerforcedbreak	F resetboxesincache
F registergroupset	F resetcharacteralign
F registerhashedfiles	F resetcolumnset
F registerhelp	F resetcomparingtext
F registerhyphenationexception	F resetcounter
F registerhyphenationpattern	F reseteffect
F registeritemgroup	F resetfeature

F resetfontfeature	F savedlistnumber
F resetfontsolution	F savedlistprefixednumber
F resetforcedbreak	F savedlisttitle
F resetinjector	F savefloat
F resetlogfile	F saveimageresource
F resetmapfiles	F savemargindata
F resetmathattributes	F savenote
F resetnullfont	F savepagedata
F resetparallel	F savepageinjections
F resetpath	F saveparallel
F resetreference	F savepos
F resetscript	F savespecificfloat
F resetstructureprocessor	F savestructureblock
F resetsubcounter	F scangivendimensions
F resetsynchronizemarking	F scriptsmodecodestring
F resetsynonyms	F second
F resettimer	F selectstructureblock
F resettrackers	F set_extensible_data
F resolvedemoji	F setadaptive
F restartcounter	F setalternate
F restartsubcounter	F setautoprefix
F restorecounter	F setbackgroundrowdata
F restorecurrentattributes	F setboxglyph
F restorenote	F setboxline
F restoreobject	F setbreakpoints
F reuserandomseed	F setcharacteralign
F reversevboxcontent	F setcharacteraligndetail
F revivefeature	F setcharactercasing
F rightmathkern	F setcharactercleaning
F romannumerals	F setcharacterkerning
F rotateparshape	F setcharacterspacing
F rounded	F setcharacterstripping
F roundedfill	F setclosedocumentaction
F roundedoutline	F setclosepageaction
F ruby	F setcolormodel
F ruleoptioncodestring	F setcolumnsetarea
F runcontextjob	F setcolumnsetlines
F safechar	F setcolumnsetmvl
F samplefile	F setcolumnsetpresent
F saveboxresource	F setcolumnsetproperties
F savebuffer	F setcolumnsetstart
F savecounter	F setcomparetext
F savecurrentattributes	F setcomparingtext
F savecurrentvalue	F setcounter

F setdataset	F setitaliccorrection
F setdestinationattribute	F setjavascriptpreamble
F setdigitsmanipulation	F setjobcomment
F setdirection	F setlanguageexceptions
F setdocumentargument	F setlanguageoptions
F setdocumentcommandline	F setlanguagepatterns
F setdocumentctxfile	F setlanguagesynonym
F setdocumentdefaultargument	F setlinefiller
F setdocumentenvironments	F setlineprofile
F setdocumentfilename	F setlocalalignanchor
F setdocumentfilenames	F setlocalmarkanchor
F setdocumentmodes	F setlocalsyncanchor
F setdocumentmodules	F setluatable
F seteffect	F setmathalphabet
F setelementbackendtag	F setmathattribute
F setelementnature	F setmathfontalternate
F setextrafontkerns	F setmathfontstyle
F setfieldcalculationset	F setmathsnapping
F setfigureconversion	F setmathvariant
F setfigurelookuporder	F setmetaglyph
F setfigurepaths	F setmpextensions
F setfirstline	F setnaturalwd
F setfontfeature	F setnegative
F setfontofid	F setnextinternalreferences
F setfontsolution	F setnextreferenceorder
F setformat	F setnotestate
F setformsmethod	F setopendocumentaction
F sethsizecolumnset	F setopenpageaction
F sethsizecolumnspan	F setowncounter
F sethyphenatedurlcharacters	F setownsubcounter
F sethyphenationfeatures	F setpagecolormodel
F sethyphenationmethod	F setpagestate
F setidentityvariable	F setpagestaterealpageno
F setinitial	F setpagetransition
F setinitialsectionblock	F setparagraphmetashape
F setinjector	F setparagraphshape
F setinsertionlocation	F setparbuilder
F setinsertmigration	F setparwrapper
F setinterfaceconstant	F setpdfcompression
F setinterfaceelement	F setperiodkerning
F setinterfacemessage	F setpostlistbox
F setinterfacemessages	F setprelistbox
F setinterfacevariable	F setprofile
F setinternalreference	F setrandomseed

F setrealign	F settagproperty
F setrealspaces	F settagpublication
F setreferencelinkmethod	F settagregister
F setregionbox	F settagsetreferencedescription
F setregionboxtagged	F settagsorting
F setregistermethod	F settagsubsentencesymbol
F setreplacements	F settagsynonym
F setruby	F settagtablecell
F setrule	F settagtabulatecell
F setscript	F settransliteration
F setsectionblock	F setupbookmarks
F setsectionentry	F setupcanvas
F setshadow	F setupcharacterspacing
F setshift	F setupcomparingtext
F setsofthyphens	F setupexport
F setsplitlisthtdp	F setupfontexpansion
F setstacking	F setupfontprotrusion
F setstructureblockstate	F setupinsertion
F setstructurelevel	F setuplinenumbering
F setstructurenumber	F setupsynctex
F setsubcounter	F setupusermetadata
F settagcodepoint	F setupviewerlayer
F settagcombination	F setvisual
F settagcombinationpair	F setvisualfont
F settagconstruct	F setvisuallayer
F settagdelimitedsymbol	F setvisuals
F settagdescriptionindex	F setvsizecolumnset
F settagfigure	F setxmpfile
F settagfloat	F shiftmatrixornaments
F settagformulacontent	F shiftparshape
F settaggedmetadata	F shipoutpage
F settaggingcomment	F showarray
F settaggingoption	F showassignerror
F settaggingpresets	F showattributes
F settaghighlight	F showbits
F settagitem	F showboxinbuffer
F settagitemgroup	F showbtxdatasetauthors
F settaglist	F showbtxdatasetcompleteness
F settagmarginanchor	F showbtxdatasetfields
F settagmargintext	F showbtxentry
F settagmpgraphic	F showbtxfields
F settagnotation	F showbtxhashedauthors
F settagnotationsymbol	F showbtxtables
F settagparagraph	F showbtxvariants

F showchardata	F startclipping
F showcounter	F startcollectingmath
F showdirectives	F startcolorset
F showdiscretionaries	F startcomponent
F showexperiments	F startenvironment
F showfontparameters	F startfontsolution
F showhyphenatedinlist	F startgraphicgroup
F showhyphenationtrace	F startlocalcomponent
F showinjector	F startmarkpages
F showjustification	F startmatrix
F showlogcategories	F startmirroring
F showluatables	F startpageblock
F showluatokens	F startparbuilder
F showmacrostack	F startprerollpageblock
F showmessage	F startproduct
F showpagelist	F startproject
F showparagraphshape	F startregime
F showprofiledmacros	F startrotation
F showstructure	F startruby
F showtrackers	F startscaling
F silliness	F startsectionlevel
F simplealign	F startstream
F simplecases	F starttext
F simplematrix	F startviewerlayer
F sin	F step
F sind	F stopactualtext
F sl	F stopalternativetext
F spaceddigits	F stopchemical
F spacefactorcodestring	F stopclipping
F spaceskipcodestring	F stopcollectingmath
F special	F stopcolorset
F specificationoptioncodestring	F stopcomponent
F specifiedfont	F stopenvironment
F specifiedfontsize	F stopfontsolution
F specifiedfontspec	F stopgraphicgroup
F splitfilename	F stoplocalcomponent
F splitsamplefile	F stopmarkpages
F spotcolorname	F stopmatrix
F spotcolorparent	F stopmirroring
F spotcolorvalue	F stoppageblock
F squid_check	F stopparbuilder
F startactualtext	F stopprerollpageblock
F startalternativetext	F stopproduct
F startchemical	F stopproject

F stopregime	F synchronizelocalanchors
F stoprotation	F synchronizemarking
F stopscaling	F synchronizesteps
F stopsectionlevel	F synchronizestream
F stopstream	F synctexblockfilename
F stoptext	F synctexdisable
F stopviewerlayer	F synctexpause
F storejavascriptcode	F synctexpopline
F storejavascriptpreamble	F synctexpushline
F storenote	F synctexresetfilename
F storeregister	F synctexresume
F strc_tags_document_pop	F synctexsetfilename
F strc_tags_document_push	F synonymfirstuserpage
F strc_tags_get_element_tag	F synonymmeaning
F strc_tags_parcounter_pop	F synonymname
F strc_tags_parcounter_push	F synonympages
F strc_tags_set_aspect	F synonymuserpages
F strc_tags_set_element_user_properties	F systemlog
F strc_tags_start	F tabl_ntb_get_sec
F strc_tags_start_chained	F tabl_ntb_set_sec
F strc_tags_start_detail	F tagmfunctionlab
F strc_tags_start_ignore	F tagmfunctionlabattribute
F strc_tags_start_userdata	F tan
F strc_tags_stop	F tand
F stringtoorientation	F textdir
F stripinserts	F textime
F structureautocatcodedget	F tf
F structureblockuservariable	F thebox
F structurecatcodedget	F thefirstcharacter
F structuregivencatcodedget	F themaxboxwidth
F structurenumber	F theremainingcharacters
F structuretitle	F tightfitcompensation
F structureuservariable	F timestring
F structurevariable	F tobigpoints
F subcountervalue	F tobit
F subsubcountervalues	F tobits
F subtocolumnsetmvl	F tochar
F subtocolumnsetmvlbalance	F tohexa
F subtractfeature	F toorientation
F svghashed	F totalofstring
F sync	F tounicharnum
F synccolor	F towholebigpoints
F synccolorclone	F transliterate
F synccolorcount	F transliteratebuffer

F transliterated

F transliteratedbuffer

F transliterationexception

F traverseblock

F traversemath

F triggerpagebuilder

F truefilename

F truefontname

F type

F typebuffer

F typefile

F uchar

F uchexnumber

F uchexnumbers

F undefinechemical

F unicodechar

F unihex

F unit

F unloadlanguage

F unstripinserts

F unsupportedcs

F useMPlibrary

F useanyfile

F useanyfileonce

F useboxresource

F usecolors

F usecomponent

F useenvironment

F usefigurebase

F usefile

F useimageresource

F usejavascriptpreamble

F usejavascriptscripts

F uselibrary

F uselist

F useluamodule

F useluatable

F usemathpluginlibrary

F usemodules

F usepath

F useproduct

F useproject

F usereferences

F useregister

F usesubpath

F usesymbols

F usetransliteration

F useurl

F usezipfile

F utfchar

F utflower

F utfmathclass

F utfmathcommand

F utfmathcommandfiller

F utfmathfiller

F utfmathstretch

F utfshape

F utfstrip

F utfupper

F uuid

F vboxlisttohbox

F verbose

F vpackbox

F vpackedbox

F way

F weekday

F weekdayname

F widthofstring

F widthuptohere

F write

F writeline

F writestatus

F writestring

F x_table_c

F x_table_cleanup

F x_table_construct

F x_table_create

F x_table_finish_row

F x_table_flush

F x_table_init_construct

F x_table_init_reflow_height

F x_table_init_reflow_height_option

F x_table_init_reflow_width

F x_table_init_reflow_width_option

F x_table_next_row

F x_table_next_row_option

F x_table_r

F x_table_reflow_height

F x_table_reflow_width

F x_table_set_construct

F x_table_set_reflow_height

F x_table_set_reflow_width

F xmladdindex

F xmlaftersetup

F xmlall

F xmlappendsetup

F xmlapplyselectors

F xmlatt

F xmlattdef

F xmlattribute

F xmlattributedef

F xmlbadinclusions

F xmlbeforesetup

F xmlchainatt

F xmlchainattdef

F xmlchecknamespace

F xmlcommand

F xmlconcat

F xmlconcatrange

F xmlcontext

F xmlcount

F xmlcssmappedstylevalue

F xmlcssstylevalue

F xmldelete

F xmldepth

F xmldirect

F xmldirectives

F xmldirectivesafter

F xmldirectivesbefore

F xmldisplayverbatim

F xmldoif

F xmldoifatt

F xmldoifelse

F xmldoifelseatt

F xmldoifelseempty

F xmldoifelseselfempty

F xmldoifelsetext

F xmldoifempty

F xmldoifnot

F xmldoifnotatt

F xmldoifnotempty

F xmldoifnotselfempty

F xmldoifnottext

F xmldoifselfempty

F xmldoiftext

F xmlelement

F xmlfileline

F xmlfilename

F xmlfilter

F xmlfilterlist

F xmlfirst

F xmlflush

F xmlflushcontext

F xmlflushlinewise

F xmlflushpure

F xmlflushsetups

F xmlflushspacewise

F xmlflushtext

F xmlformulatobuffer

F xmlfunction

F xmlgetindex

F xmlinclude

F xmlincludeoptions

F xmlinclusion

F xmlinclusionbase

F xmlinclusions

F xmlindex

F xmlinlineverbatim

F xmlinstalldirective

F xmllast

F xmllastatt

F xmllastmatch

F xmllastpar

F xmlloadbuffer

F xmlloaddata

F xmlloaddirectives

F xmlloadentities

F xmlloadfile

F xmlmain

F xmlmatch

F xmlname

F xmlnamespace

F xmlnonspace

F xmlpar

F xmlparam

F xmlpath

F xmlpopmatch	F xmlverbatim
F xmlpos	F xmlwithindex
F xmlprependsetup	F year

containers table

- F cleanname
- F content
- F define
- F is_usable
- F is_valid
- F read
- B usecache
- F write

context function

- F bc
- F bgroup
- T catcodes
  - N context
  - N ctx
  - N ctxcatcodes
  - N plain
  - N protect
  - N prt
  - N prtcatcodes
  - N tex
  - N texcatcodes
  - N text
  - N txt
  - N txtcatcodes
  - N verbatim
  - N vrb
  - N vrbcatcodes
- F char
- F concat
- D conditionals
- T core
  - F BC
  - F EQ
  - F FL
  - F HL
  - F LABELTEXT
  - F LL
  - F LuaSnippet
  - F LuaSnippetBoundary
  - F LuaSnippetComment

Left column:

- F xmlpure
- F xmlpushmatch
- F xmlraw
- F xmlrawtex
- F xmlrefatt
- F xmlregisterns
- F xmlremapname
- F xmlremapnamespace
- F xmlremovesetup
- F xmlresetinjectors
- F xmlresetsetups
- F xmlsave
- F xmlsetatt
- F xmlsetattribute
- F xmlsetcommandtonone
- F xmlsetcommandtotext
- F xmlsetentity
- F xmlsetinjectors
- F xmlsetpar
- F xmlsetparam
- F xmlsetsetup
- F xmlsnippet
- F xmlstartraw
- F xmlstarttiming
- F xmlstopraw
- F xmlstoptiming
- F xmlstrip
- F xmlstripanywhere
- F xmlstripeverything
- F xmlstripnolines
- F xmlstripped
- F xmlstrippednolines
- F xmltag
- F xmltexatt
- F xmltexentity
- F xmltext
- F xmltobuffer
- F xmltobuffertextonly
- F xmltobufferverbose
- F xmltofile
- F xmltoparameters

```
F  LuaSnippetCommentText          F  XmlSnippetComment
F  LuaSnippetName                 F  XmlSnippetEntity
F  LuaSnippetNameBase             F  XmlSnippetEqual
F  LuaSnippetNameCore             F  XmlSnippetKey
F  LuaSnippetNameLibraries        F  XmlSnippetName
F  LuaSnippetQuote                F  XmlSnippetString
F  LuaSnippetSpecial              F  applyprocessor
F  LuaSnippetString               F  beginhbox
F  ML                            F  beginvbox
F  MPLIBsetCtextX                 F  beginvtop
F  MPLIBsetNtextX                 F  bf
F  MPLIBsettextX                  F  bgroup
F  MetapostSnippet                F  blank
F  MetapostSnippetBoundary        F  btxchecklistentry
F  MetapostSnippetComment         F  btxciteauthorsetup
F  MetapostSnippetCommentText     F  btxcitesetup
F  MetapostSnippetConstructor     F  btxflushauthor
F  MetapostSnippetName            F  btxhandlecombientry
F  MetapostSnippetNameMetafun     F  btxhandlelistentry
F  MetapostSnippetNamePlain       F  btxlistauthorsetup
F  MetapostSnippetNamePrimitive   F  btxlistsetup
F  MetapostSnippetQuote           F  btxnumberingsetup
F  MetapostSnippetSpecial         F  btxpagesetup
F  MetapostSnippetString          F  btxsetafter
F  NC                            F  btxsetauthorfield
F  NR                            F  btxsetauthorvariant
F  ParsedXmlSnippetCdata          F  btxsetbacklink
F  ParsedXmlSnippetComment        F  btxsetbefore
F  ParsedXmlSnippetDoctype        F  btxsetcategory
F  ParsedXmlSnippetElement        F  btxsetcombis
F  ParsedXmlSnippetInstruction    F  btxsetconcat
F  ParsedXmlSnippetKey            F  btxsetcount
F  ParsedXmlSnippetValue          F  btxsetcurrentlistentry
F  TexSnippet                    F  btxsetcurrentlistindex
F  TexSnippetBoundary             F  btxsetdataset
F  TexSnippetComment              F  btxsetfirst
F  TexSnippetCommentText          F  btxsetfirstinternal
F  TexSnippetGroup                F  btxsetfirstnames
F  TexSnippetName                 F  btxsetfirstpage
F  TexSnippetSpecial              F  btxsetinitials
F  VL                            F  btxsetinternal
F  XmlSnippet                    F  btxsetjuniors
F  XmlSnippetBoundary             F  btxsetlanguage
F  XmlSnippetCdata                F  btxsetlastinternal
```

F btxsetlastpage	F clf_step
F btxsetlefttext	F droptablegroup
F btxsetnoflistentries	F egroup
F btxsetnumber	F firstofonearguments
F btxsetoverflow	F firstoftwoarguments
F btxsetrighttext	F gobbleonearguments
F btxsetsecond	F hbox
F btxsetsuffix	F par
F btxsetsurnames	F secondoftwoarguments
F btxsettag	F space
F btxsetvons	F vbox
F btxstartauthor	F vtop
F btxstartcite	F ctxreport
F btxstartciteauthor	F definebodyfont
F btxstartcombientry	F definefontfallback
F btxstartlistentry	F definefontsynonym
F btxstartsubcite	F definetypeface
F btxstopauthor	F digitsdigit
F btxstopcite	F digitsfinalcomma
F btxstopciteauthor	F digitsfinalperiod
F btxstopcombientry	F digitshighspace
F btxstoplistentry	F digitsintermediatecomma
F btxstopsubcite	F digitsintermediateperiod
F btxsubcitesetup	F digitsminus
F buff_finish	F digitsnegative
F chemicalinline	F digitsplus
F chemicalspecial	F digitsplusminus
F color	F digitspositive
F colordefagc	F digitspower
F colordefagt	F digitspowerminus
F colordefalc	F digitspowerplus
F colordefalt	F digitsseparatorspace
F colordeffgc	F digitssignspace
F colordeffgt	F digitsspace
F colordefflc	F digitszeropadding
F colordefflt	F doactivateinjector
F colordefrgc	F doboxfigureobject
F colordefrgt	F docheckfigurebuffer
F colordefrlc	F docheckfigurecld
F colordefrlt	F docheckfiguremprun
F convertnumber	F docheckfiguremps
T cs	F docheckfiguretex
F atendofgroup	F dodisplayverbatimbeginline
F bgroup	F dodisplayverbatimemptyline

F dodisplayverbatiminitialize	F gobbletwoarguments
F dodisplayverbatimnewline	F goto
F dodisplayverbatimstart	F highordinalstr
F dodisplayverbatimstop	F ignoreparskip
F doexternalfigurerepeat	F input
F dofastdefinetypeface	F labeltext
F dofinishreference	F loadfontgoodies
F doflushparallel	F loadfoundtypescriptfile
F dofromfiledescription	F luasetup
F dofromfileliteral	F m
F dofromurldescription	F makelinenumber
F dofromurlliteral	F mathematics
F doinlineverbatimbeginline	F mathord
F doinlineverbatimemptyline	F mathrel
F doinlineverbatimnewline	F nointerlineskip
F doinlineverbatimstart	F nostarthead
F doinlineverbatimstop	F nostophead
F domarkinjector	F overstrike
F donestedtypingstart	F page
F donestedtypingstop	F page_mvl_set_area
F doscalefigure	F par
F dosetfastregisterentry	F pdfliteral
F dosetfigureobject	F popcatcodetable
F dostarthead	F processfilemany
F dostarttexdefinition	F processfilenone
F dostarttext	F processfileonce
F dostophead	F pushcatcodetable
F doverbatimspace	F registerentry
F dummyxcell	F registeronepage
F egroup	F registerpacked
F emptyreference	F registerpagerange
F enablemode	F registersection
F endhbox	F registerseeword
F endvbox	F relocateexternalfigure
F endvtop	F resetfontfallback
F environment	F rlap
F errmessage	F rotate
F expandreferencearguments	F setcatcodetable
F expandreferenceoperation	F setfalsevalue
F finalizeautostructurelevel	F sethboxregister
F finishjob	F setruby
F flushboxregister	F setsectionblock
F getbuffer	F settabulateentry
F getvalue	F settabulatelastentry

F setupsystem	F stopregisterpages
F setupwithargument	F stopregistersection
F setvboxregister	F stopregisterseewords
F setvtopregister	F stoptabulate
F space	F stoptext
F startLuaSnippet	F stoptitle
F startMetapostSnippet	F stopuserdata
F startParsedXmlSnippet	F stopvboxregister
F startTexSnippet	F stopvtopregister
F startXmlSnippet	F stopxtable
F startbuffer	F stopxtitle
F startcolumns	F synonymentry
F startfontclass	F tabulaterow
F startfoundexternalfigure	F tabulaterowbold
F starthboxregister	F tabulaterowtyp
F startreadingfile	F tabulaterowtype
F startregisterentries	F texsetup
F startregisterentry	F typ
F startregisteroutput	F unitsC
F startregisterpages	F unitsN
F startregistersection	F unitsNspace
F startregisterseewords	F unitsNstart
F starttabulate	F unitsNstop
F starttext	F unitsO
F starttitle	F unitsP
F startuserdata	F unitsPS
F startvboxregister	F unitsPU
F startvtopregister	F unitsPUS
F startxtable	F unitsPclose
F startxtitle	F unitsPopen
F stopLuaSnippet	F unitsQ
F stopMetapostSnippet	F unitsRPM
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  F xmlprocessbuffer          F start
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  F xmltexcommand            D modes
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T delayed                    T nodes
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  F monobold                 F popcatcodes
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F fprint                     F printlines
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F latelua                      F newdimen
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  F dispose                  F rule
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  F getfrom                  F runstring
  F idxfrom                  F safechar
  F inspect                  F secondoftwoarguments
  F new                      F setconditional
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  F show                     F setmode
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  F MetapostSnippetConstructor
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  F MetapostSnippetNamePrimitive
  F MetapostSnippetQuote
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  F TexSnippetBoundary
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  F XmlSnippetEntity
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  F A:ru
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  F Alphabetic:es
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  F Romannumerals
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F a:ru		F r	
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F abjadnodotnumerals		F russiannumerals	
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F alphabetic:es		F sloveniannumerals	
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F	readinteger2
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T blobs
  F append
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  F strht
  F strwd
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F MPLIBconvertoutlinetext	F addtolist
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F MPd	F allinputpaths
F MPfromhash	F alphabetic
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F MPls	F analyzelocalanchors
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F MPrest	F arraycompare
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F addcounter	F autorule
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F addfontpath	F autostoptext
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F addlinklistelement	F benchmarktimer
F addreplacements	F bf
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F addrivers	F bitmapimage
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F bitwisenil	F btxcmdstring
F bitwisenot	F btxcollectlistentries
F bitwiseor	F btxcurrentfirstnames
F bitwiseset	F btxcurrentinitials
F bitwiseshift	F btxcurrentjuniors
F bitwisexor	F btxcurrentsurnames
F blockcolumnset	F btxcurrentvons
F blockligatures	F btxdetail
F boolcase	F btxdirect
F boxdir	F btxdoif
F boxline	F btxdoifelse
F boxlinedp	F btxdoifelsecitedone
F boxlineht	F btxdoifelsecombiinlist
F boxlineil	F btxdoifelsematches
F boxlinein	F btxdoifelsesameasprevious
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F boxlinelp	F btxentrytobuffer
F boxlinels	F btxentrytostring
F boxlinemaxdp	F btxexpandedjournal
F boxlinemaxht	F btxfetchlistentries
F boxlinemaxwd	F btxfield
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F boxlinenh	F btxflush
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F boxoptioncodestring	F btxhandlenocite
F boxrangedp	F btxlastofrange
F boxrangeht	F btxlistvariant
F boxrangewd	F btxloaddefinitionfile
F boxtostring	F btxloadjournallist
F bposcolumn	F btxloadreplacementfile
F bposcolumnregistered	F btxmissing
F bs	F btxoneorrange
F btxabbreviatedjournal	F btxpreparelistentries
F btxaddentry	F btxremapauthor
F btxaddjournal	F btxsaveddataset
F btxauthor	F btxsavejournallist
F btxauthorfield	F btxsetdataset

F btxsetentry
F btxsetregister
F btxsetspecification
F btxshortcut
F btxshowauthorremapping
F btxsingularorplural
F btxtoregister
F btxusedataset
F btxuservariable
F build_page_after_shipout
F build_page_before_shipout
F build_page_setup
F capheight
F charactercontrolcodestring
F chardescription
F checkcolumnset
F checkcolumnsetmvl
F checkcountersetup
F checkedconversion
F checkedemoji
F checkedpagefloat
F checkinjector
F checkinterfacechain
F checkmarkedpages
F checknesting
F checkspacingavailable
F checkstrutdepth
F chemicalcomponent
F chinesenumerals
F chr
F classoptioncodestring
F cleancolumnset
F cleanfontname
F cleanupattributes
F cleanupbox
F cleanuplayers
F clonefield
F closein
F closeout
F codedef
F collectedmath
F collectfloat
F collecthelp
F columnsetbalancefirst

F columnsetbalancelast
F columnsetbalancepage
F columnsetcolumnwidth
F columnsetdisablewide
F columnsetenablewide
F columnsetgoto
F columnsethascontent
F columnsethspan
F columnsetlastfuture
F columnsetlastmvl
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F columnsetnoto
F columnsetresetdirect
F columnsetresetshapeextra
F columnsetreshape
F columnsetsblockrows
F columnsetsetshapeextra
F columnsetshape
F columnsetshapebalancecheck
F columnsetshapebalanceextend
F columnsetshapecolumn
F columnsetshapecount
F columnsetshapeindex
F columnsetshapepage
F columnsetshapesetbalancerange
F columnsetshapeslots
F columnsetshapespread
F columnsetshapevsize
F columnsetshapeworst
F columnsetshowgrid
F columnsetshowshape
F columnsetshowtracedgrid
F columnsetstate
F columnsetstatus
F combineglyphs
F component
F concatcommalist
F consultfloat
F continueifinputfile
F convertbtxdatasettoxml
F converteddimen
F convertmpstopdf
F copyboxfromcache
F copyboxline

F copyposition
F cos
F cosd
F ctxfunction
F ctxluamatch
F ctxluamatchfile
F ctxresetter
F ctxscanner
F currentcomponent
F currentdate
F currentdesignsize
F currentenvironment
F currentfontinstancespec
F currentposthyphenchar
F currentprehyphenchar
F currentproduct
F currentproject
F currentsectiontolist
F datasetsize
F datasetvariable
F day
F daymnem
F dayname
F decimals
F decrementcounter
F decrementsubcounter
F deferredenhancelist
F deferredenhancereference
F deferredenhanceregister
F defineaccents
F defineattribute
F defineboundary
F definebreakpoint
F definebreakpoints
F definecharacterspacing
F definechemical
F definecolumnset
F defineconversion
F definecounter
F definedlayoutcomponent
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F definefield
F definefieldset
F definefilefallback

F definefilesynonym
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F definefont_two
F definefontcolorpalette
F definefontfamily
F definefontfamilypreset
F definefontfeature
F definefontscriptset
F definefontsolution
F definehyphenationfeatures
F defineinsertion
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F definelabcolorglobal
F definelabcolorlocal
F definelabels
F definelanguage
F definelinkedlist
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F defineprocesscolorlocal
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F definereference
F defineregister
F definesectionlevels
F definespotcolorglobal
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F definestructureset
F definesubcolumnset
F definetransparency
F definetransparencyglobal
F definetypeface
F defineviewerlayer
F delayedcolumnsetsheet
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F depthofstring
F descender
F detachinsertions
F diagnostic

F digits_normal
F digits_reverse
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F disableautofontscript
F disablecollectingmath
F disabledirectives
F disableexperiments
F disablejobsave
F disableparbuilder
F disableregime
F disablespellchecking
F disablestatetriggering
F disablestream
F disabletrackers
F discardfromlist
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F disposeluatable
F doanalyzeframedbox
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F doifcounter
F doifelse
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F doifelsedrawingblack
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F doifelsepositionsonsamepage
F doifelsepositionsonthispage
F doifelsepositionsused
F doifelserangeonpage
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F doifelsereferenced
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F doifelseutfmathfiller
F doifelseutfmathlimop
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F doifelsevisualizer
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F doifnotcounter
F doifnotecontent

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F doifsame
F doifsomething
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F domainattribute
F doreshapeframedbox
F doresyncframedbox
F dosaveposition
F dosavepositionplus
F dosavepositionwhd
F dosetposition
F dosetpositionbox
F dosetpositionplus
F dosetpositionstrut
F dosetpositionstrutkind
F dosetpositionwhd
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F dostoptextfile
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F elapsedtime
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F enablealignskips
F enableasciimode
F enableautofences
F enableautofontscript
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F enablebackgroundboxes
F enablecollectingmath
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F enablecolorintents
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F enabledirectives
F enabledriver
F enableexperiments
F enablefontcolorschemes
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F enablematrixornaments
F enablematrixrules

F enableparbuilder
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F enablescriptunstacking
F enablesidefloatchecker
F enablespellchecking
F enablestacking
F enablestatetriggering
F enablestream
F enableswapping
F enabletighten
F enabletrackers
F enabletransparency
F enableutf
F enhancelinkedlist
F enhancelist
F enhanceregister
F enhancesynonym
F environment
F eposcolumn
F eposcolumnregistered
F erasebuffer
F execute
F exportbox
F exportformdata
F exportreferences
F expression
F extendregister
F extendregisterlate
F extensiblecode
F fakeword
F featureattribute
F feedback
F fetchlanguagetext
F fetchmultipar
F fetchposboxes
F fetchterminaldata
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F figure_mergegoodies
F figure_nof_registered_pages
F figure_register_page
F figuresetdimensions
F filebasename
F filedirname
F filenameonly

F filesuffix	F formatluminance
F filterdefaultreference	F formatluminanceratio
F filterreference	F formatone
F finalizeobjectbox	F framedoutline
F finalizeshipoutbox	F from
F findregisterinternal	F frozenparcodestring
F finishcolumnsetflush	F frule
F finishexport	F getMPdata
F firstinset	F getbidimode
F firstsectionpage	F getbodyfontsizes
F firstsubcountervalue	F getboxcountfromcache
F flagcodestring	F getboxdpfromcache
F flushcolumnsetareas	F getboxfromcache
F flushcolumnsetcolumn	F getboxhtdpfromcache
F flushfloat	F getboxhtfromcache
F flushlabeledfloat	F getboxwdfromcache
F flushnoterange	F getbuffer
F flushnotes	F getbuffercontent
F flushpageblocks	F getbufferctxlua
F flushpageinjectionsafter	F getbuffermkvi
F flushpageinjectionsbefore	F getbuffertex
F flushpostponedblocks	F getcharactercasingcategory
F flushpostponednotes	F getclubpenalties
F flushstream	F getcurrentprefixspec
F flushstreamcopy	F getcurrentreferencelabel
F fontchar	F getcurrentreferencemetadata
F fontcharbyindex	F getdefaultfieldvalue
F fontcollectionclone	F getdisplaywidowpenalties
F fontcollectiondefine	F getdocumentargument
F fontcollectionprepare	F getdocumentfilename
F fontcollectionregister	F getfieldcategory
F fontcollectionreport	F getfile
F fontcollectionreset	F getfirstcharacter
F fontlookupgetkey	F getfloatvariable
F fontlookupgetkeyofindex	F getfromluatable
F fontlookupinitialize	F getfullstructurenumber
F fontlookupnoffound	F getinterlinepenalties
F forceendjob	F getinternalcachedlistreference
F forcepageflush	F getinternallistreference
F forcequitjob	F getinternalorderreference
F forcestrutdepth	F getmathblobindex
F format	F getmathblobmapping
F formatcolor	F getmathcharone
F formatgray	F getmathchartwo

F getmathmathblob	F gobblenested
F getmathtextblob	F gotocolumnsetslot
F getmathvariant	F grabbuffer
F getmessage	F groupcodestring
F getmpextensions	F groupsetgroup
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F getnaturalwd	F grph_nodes_register
F getnofpreviouslines	F grph_nodes_reset
F getnotestate	F grph_nodes_resolve
F getnotestorecount	F handlemathhang
F getnotestoreflushed	F hboxtovbox
F getobjectdimensions	F heightofstring
F getobjectreference	F helpaction
F getobjectreferencepage	F helpreference
F getparshape	F hour
F getparwrapper	F hpackbox
F getprivatechar	F hpackedbox
F getprivateglyphslot	F hsplit
F getprivatemathchar	F hyphenateddigits
F getprivateslot	F hyphenatedlist
F getprogram	F hyphenationcodestring
F getrandomdimen	F ic
F getrandomfloat	F idxfromluatable
F getrandomnumber	F if_common
F getrandomseed	F ifallmodes
F getreadfilename	F ifbitwiseand
F getreferencesectionnumber	F ifblobindexdone
F getrivers	F ifboxhaslist
F getsetupstring	F ifcommon
F getshapeparameter	F ifeof
F getsomefullstructurenumber	F ifgluelineinbox
F getsomestructurenumber	F ifinset
F getspecificstructuretitle	F iflua
F getstructurelevel	F ifmode
F getstructurenumber	F ifmodes
F getsubstring	F ifmvl
F getsynchronizemarking	F ifpositunum
F geturl	F ifsetups
F getvisual	F ifsystemmode
F getwidowpenalties	F iftext
F globalpopmacro	F ifxml
F globalpushmacro	F ifxmlatt
F gluetolinesinbox	F ifxmlattempty
F glyphoptioncodestring	F ifxmlempty

F ifxmlselfempty

F ifxmltext

F ignorefile

F ignoretagsinexport

F immediatemessage

F includesvgbuffer

F includesvgfile

F incrementcounter

F incrementsubcounter

F inhibitprimitive

F initializeexport

F initializejob

F initializemathcollapsing

F initializemathfencing

F initializemathitalics

F initializemathkernpairs

F initializemathnumbers

F initializemathspacing

F initializestream

F initializetexdirectives

F initializetexexperiments

F initializetextrackers

F injectcurrentreference

F injectcurrentreferencehtdp

F injectdisable

F injectnowhite

F injectreference

F injectvpenalty

F injectvskip

F injectvspacing

F injectzerobaselineskip

F inlinechemical

F inputfilebarename

F inputfilename

F inputfilerealsuffix

F inputfilesuffix

F insertattachment

F insertcategorycodestring

F insertcomment

F insertfield

F insertionnumber

F insertoptioncodestring

F insertrenderingwindow

F inspectluatable

F installedlanguages

F installtexdirective

F installtexexperiment

F installtextracker

F interceptsamepagecontent

F it

F jobfilefullname

F jobfilename

F jobfilesuffix

F jobposd

F jobposh

F jobposp

F jobposw

F jobposx

F jobposy

F languagecharwidth

F languagenumber

F lastblobindex

F lastnodeequals

F lastnodeid

F lastnodeidstring

F lastnodesubtypestring

F lastparwrapper

F lastrpos

F lastsavedboxresourceindex

F lastsavedimageresourceindex

F lastsavedimageresourcepages

F lastsectionpage

F lastsubcountervalue

F lastunitstring

F lastxpos

F lastypos

F lateindent

F latelua

F lateundent

F lchexnumber

F lchexnumbers

F leapyear

F limitated

F linebuffering

F linedir

F lineprofilebox

F linesegment

F listanchorcodestring

F listbookmark	F localboxlocalwidth
F listexternal	F localboxmarkonce
F listgroupindex	F localboxovershoot
F listlabel	F localboxparfillleftskip
F listlocation	F localboxparfillrightskip
F listnamespaces	F localboxparinitleftskip
F listprefixednumber	F localboxparinitrightskip
F listprefixedpage	F localboxprogress
F listrawnumber	F localboxrighthang
F listrawrealpage	F localboxrightoffset
F listrawuserpage	F localboxrightskip
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F listsize	F localpushmacro
F listtitle	F locatefilepath
F listuserdata	F loopcs
F lmt_parameters_define	F loopcsn
F lmt_parameters_preset	F lousiness
F lmt_parameters_reset	F luacardinal
F loadcldfile	F luacount
F loadcldfileonce	F luadimen
F loadexamodes	F luaexpression
F loadfontgoodies	F luafloat
F loadlibrary	F luainteger
F loadluafile	F luanumber
F loadluafileonce	F luarandom
F loadluamodule	F luascript
F loadmapfile	F luathread
F loadmapline	F lxmlid
F loadspellchecklist	F manipulated
F loadtexfile	F markblobindexdone
F loadtexfileonce	F markcontent
F loadtypescriptfile	F markedpageparameter
F loadvisualizer	F markedpages
F loadxmlfile	F markingnumber
F loadxmlfileonce	F markingtitle
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F localanchory	F markpage
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F localboxlinenumber	F markvisualfonts
F localboxlinewidth	F mathclassvalue

F mathcontrolcodestring	F mptexreset
F mathhorizontalcode	F mptexset
F mathoptioncodestring	F mptexsetfrombuffer
F mathrenderset	F mptexttoks
F mathstrutcode	F mvloptioncodestring
F mathvariantcode	F namedstructureuservariable
F mathvariantcount	F namedstructurevariable
F mathvariantslot	F naturalwd
F maxbufferwidth	F negatedcolorcomponent
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F metapostformatted	F newindexedtable
F metapostgraphformat	F newluatable
F minute	F newparwrapper
F mixcleanup	F newrepeatablerandom
F mixfinalize	F newstacking
F mixflushlist	F nextparallel
F mixflushrest	F nextsubcountervalue
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F mixsetsplit	F nofbufferlines
F mixstate	F nofconversions
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F molecule	F nofdetachedinsertions
F month	F noflinesinbox
F monthmnem	F nofmathvariants
F monthname	F nofstackedfloats
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F mpcolor	F normalizecodestring
F mpgetblob	F normalizedbodyfontsize
F mpgettext	F normalizeparcodestring
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F mpoutlinetoks	F notelistindex
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F mppushvariables	F notetitle
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F mpruntab	F ntb_split_section_fetch
F mprunvar	F ntb_split_section_locate
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F	pdfbackendsetcolorspace	F	pgfxcolorspec
F	pdfbackendsetextgstate	F	pickupbuffer
F	pdfbackendsetinfo	F	pickupmarkedcontent
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F	pdfrefobj	F	poprunstate
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F postlistcopy	F pushregime
F postponenotes	F pushrunstate
F prefixedconverted	F pushsectionblock
F prelistbox	F pushstream
F prelistcopy	F putboxincache
F preparecolumnsetflush	F putincolumnset
F prerolledpages	F putincolumnsetdirect
F presetcolumnsetsheets	F putnextboxincache
F presetcolumnsetspreadsheets	F qrcodebuffer
F presetmathematics	F qrcodestring
F presetmathfontalternate	F rawMPdata
F presetsymbollist	F rawcharacter
F previoussubcountervalue	F rawsetupstring
F privatecharacter	F rawsubcountervalue
F privatecharactercode	F read
F processbodyfontsizes	F readfromterminal
F processbuffer	F readline
F processcollectedmath	F readlinedirect
F processedfile	F recolorbox
F processedfiles	F referencecolumn
F processfile	F referencepagedetail
F processfilemany	F referencepagestate
F processfilenone	F referenceposx
F processfileonce	F referenceposy
F processjob	F referencerealpage
F processlist	F registeranchorbox
F processregister	F registerattachment
F processsplit	F registerbackendsymbol
F processsynonyms	F registerbackground
F product	F registerbodyfontsize
F profilebox	F registerbookmark
F profilemacro	F registerboxglyph
F project	F registerbuttons
F pruneboxesincache	F registercolorintent
F purefontname	F registercolumnsetarea
F pushfloat	F registercolumnsetsheet
F pushhyphenation	F registercolumnsetspreadsheets
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F pushlocalanchors	F registerfallbackfont
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F pushparagraphtweak	F registerfigurepattern
F pushpath	F registerfigurerange

F registerfiguresuffix	F reservedautoregiontag
F registerfilescheme	F resetMPinstance
F registerfontalternative	F resetalternate
F registerfontfamily	F resetbackgroundrowdata
F registerforcedbreak	F resetboxesincache
F registergroupset	F resetcharacteralign
F registerhashedfiles	F resetcolumnset
F registerhelp	F resetcomparingtext
F registerhyphenationexception	F resetcounter
F registerhyphenationpattern	F reseteffect
F registeritemgroup	F resetfeature
F registerlabel	F resetfontfeature
F registerlanguagefeatures	F resetfontsolution
F registerlinenumbering	F resetforcedbreak
F registermaintextcolor	F resetinjector
F registermpextensible	F resetlogfile
F registernamedlua	F resetmapfiles
F registernamespace	F resetmathattributes
F registerobject	F resetnullfont
F registerpattern	F resetparallel
F registerpostponedblock	F resetpath
F registerreferencedobject	F resetreference
F registerrendering	F resetscript
F registersection	F resetstructureprocessor
F registershownsynonym	F resetsubcounter
F registersnaprange	F resetsynchronizemarking
F registerstructureprocessor	F resetsynonyms
F registersynchronize	F resettimer
F registersynonym	F resettrackers
F registertransliteration	F resolvedemoji
F registerunit	F restartcounter
F registerunitshortcut	F restartsubcounter
F registerunknownbodysize	F restorecounter
F registerusedsynonym	F restorecurrentattributes
F registeruserdata	F restorenote
F registerverbosemathlabel	F restoreobject
F removelastline	F reuserandomseed
F renderingvar	F reversevboxcontent
F reorderfloats	F revivefeature
F replacefeature	F rightmathkern
F replacepospxywhd	F romannumerals
F replacewildcard	F rotateparshape
F reportstructure	F rounded
F resavefloat	F roundedfill

F roundedoutline	F setclosepageaction
F ruby	F setcolormodel
F ruleoptioncodestring	F setcolumnsetarea
F runcontextjob	F setcolumnsetlines
F safechar	F setcolumnsetmvl
F samplefile	F setcolumnsetpresent
F saveboxresource	F setcolumnsetproperties
F savebuffer	F setcolumnsetstart
F savecounter	F setcomparetext
F savecurrentattributes	F setcomparingtext
F savecurrentvalue	F setcounter
F savedlistnumber	F setdataset
F savedlistprefixednumber	F setdestinationattribute
F savedlisttitle	F setdigitsmanipulation
F savefloat	F setdirection
F saveimageresource	F setdocumentargument
F savemargindata	F setdocumentcommandline
F savenote	F setdocumentctxfile
F savepagedata	F setdocumentdefaultargument
F savepageinjections	F setdocumentenvironments
F saveparallel	F setdocumentfilename
F savepos	F setdocumentfilenames
F savespecificfloat	F setdocumentmodes
F savestructureblock	F setdocumentmodules
F scangivendimensions	F seteffect
F scriptsmodecodestring	F setelementbackendtag
F second	F setelementnature
F selectstructureblock	F setextrafontkerns
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F setadaptive	F setfigureconversion
F setalternate	F setfigurelookuporder
F setautoprefix	F setfigurepaths
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F setboxline	F setfontofid
F setbreakpoints	F setfontsolution
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F setcharacteraligndetail	F setformsmethod
F setcharactercasing	F sethsizecolumnset
F setcharactercleaning	F sethsizecolumnspan
F setcharacterkerning	F sethyphenatedurlcharacters
F setcharacterspacing	F sethyphenationfeatures
F setcharacterstripping	F sethyphenationmethod
F setclosedocumentaction	F setidentityvariable

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F	setinitialsectionblock	F	setparagraphmetashape
F	setinjector	F	setparagraphshape
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F	setinsertmigration	F	setparwrapper
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F	setinterfaceelement	F	setperiodkerning
F	setinterfacemessage	F	setpostlistbox
F	setinterfacemessages	F	setprelistbox
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F	setmathvariant	F	setstructurelevel
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F	setmpextensions	F	setsubcounter
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F	setnegative	F	settagcombination
F	setnextinternalreferences	F	settagcombinationpair
F	setnextreferenceorder	F	settagconstruct
F	setnotestate	F	settagdelimitedsymbol
F	setopendocumentaction	F	settagdescriptionindex
F	setopenpageaction	F	settagfigure
F	setowncounter	F	settagfloat
F	setownsubcounter	F	settagformulacontent
F	setpagecolormodel	F	settaggedmetadata
F	setpagestate	F	settaggingcomment
F	setpagestaterealpageno	F	settaggingoption

F settaggingpresets	F showattributes
F settaghighlight	F showbits
F settagitem	F showboxinbuffer
F settagitemgroup	F showbtxdatasetauthors
F settaglist	F showbtxdatasetcompleteness
F settagmarginanchor	F showbtxdatasetfields
F settagmargintext	F showbtxentry
F settagmpgraphic	F showbtxfields
F settagnotation	F showbtxhashedauthors
F settagnotationsymbol	F showbtxtables
F settagparagraph	F showbtxvariants
F settagproperty	F showchardata
F settagpublication	F showcounter
F settagregister	F showdirectives
F settagsetreferencedescription	F showdiscretionaries
F settagsorting	F showexperiments
F settagsubsentencesymbol	F showfontparameters
F settagsynonym	F showhyphenatedinlist
F settagtablecell	F showhyphenationtrace
F settagtabulatecell	F showinjector
F settransliteration	F showjustification
F setupbookmarks	F showlogcategories
F setupcanvas	F showluatables
F setupcharacterspacing	F showluatokens
F setupcomparingtext	F showmacrostack
F setupexport	F showmessage
F setupfontexpansion	F showpagelist
F setupfontprotrusion	F showparagraphshape
F setupinsertion	F showprofiledmacros
F setuplinenumbering	F showstructure
F setupsynctex	F showtrackers
F setupusermetadata	F silliness
F setupviewerlayer	F simplealign
F setvisual	F simplecases
F setvisualfont	F simplematrix
F setvisuallayer	F sin
F setvisuals	F sind
F setvsizecolumnset	F sl
F setxmpfile	F spaceddigits
F shiftmatrixornaments	F spacefactorcodestring
F shiftparshape	F spaceskipcodestring
F shipoutpage	F special
F showarray	F specificationoptioncodestring
F showassignerror	F specifiedfont

```
F specifiedfontsize          F stopfontsolution
F specifiedfontspec          F stopgraphicgroup
F splitfilename              F stoplocalcomponent
F splitsamplefile            F stopmarkpages
F spotcolorname              F stopmatrix
F spotcolorparent            F stopmirroring
F spotcolorvalue             F stoppageblock
F squid_check                F stopparbuilder
F startactualtext            F stopprerollpageblock
F startalternativetext       F stopproduct
F startchemical              F stopproject
F startclipping              F stopregime
F startcollectingmath        F stoprotation
F startcolorset              F stopscaling
F startcomponent             F stopsectionlevel
F startenvironment           F stopstream
F startfontsolution          F stoptext
F startgraphicgroup          F stopviewerlayer
F startlocalcomponent        F storejavascriptcode
F startmarkpages             F storejavascriptpreamble
F startmatrix                F storenote
F startmirroring             F storeregister
F startpageblock             F strc_tags_document_pop
F startparbuilder            F strc_tags_document_push
F startprerollpageblock      F strc_tags_get_element_tag
F startproduct               F strc_tags_parcounter_pop
F startproject               F strc_tags_parcounter_push
F startregime                F strc_tags_set_aspect
F startrotation              F strc_tags_set_element_user_properties
F startruby                  F strc_tags_start
F startscaling               F strc_tags_start_chained
F startsectionlevel          F strc_tags_start_detail
F startstream                F strc_tags_start_ignore
F starttext                  F strc_tags_start_userdata
F startviewerlayer           F strc_tags_stop
F step                       F stringtoorientation
F stopactualtext             F stripinserts
F stopalternativetext        F structureautocatcodedget
F stopchemical               F structureblockuservariable
F stopclipping               F structurecatcodedget
F stopcollectingmath         F structuregivencatcodedget
F stopcolorset               F structurenumber
F stopcomponent              F structuretitle
F stopenvironment            F structureuservariable
```

F structurevariable	F tobigpoints
F subcountervalue	F tobit
F subsubcountervalues	F tobits
F subtocolumnsetmvl	F tochar
F subtocolumnsetmvlbalance	F tohexa
F subtractfeature	F toorientation
F svghashed	F totalofstring
F sync	F tounicharnum
F synccolor	F towholebigpoints
F synccolorclone	F transliterate
F synccolorcount	F transliteratebuffer
F synchronizelocalanchors	F transliterated
F synchronizemarking	F transliteratedbuffer
F synchronizesteps	F transliterationexception
F synchronizestream	F traverseblock
F synctexblockfilename	F traversemath
F synctexdisable	F triggerpagebuilder
F synctexpause	F truefilename
F synctexpopline	F truefontname
F synctexpushline	F type
F synctexresetfilename	F typebuffer
F synctexresume	F typefile
F synctexsetfilename	F uchar
F synonymfirstuserpage	F uchexnumber
F synonymmeaning	F uchexnumbers
F synonymname	F undefinechemical
F synonympages	F unicodechar
F synonymuserpages	F unihex
F systemlog	F unit
F tabl_ntb_get_sec	F unloadlanguage
F tabl_ntb_set_sec	F unstripinserts
F tagmfunctionlab	F unsupportedcs
F tagmfunctionlabattribute	F useMPlibrary
F tan	F useanyfile
F tand	F useanyfileonce
F textdir	F useboxresource
F textime	F usecolors
F tf	F usecomponent
F thebox	F useenvironment
F thefirstcharacter	F usefigurebase
F themaxboxwidth	F usefile
F theremainingcharacters	F useimageresource
F tightfitcompensation	F usejavascriptpreamble
F timestring	F usejavascriptscripts

F uselibrary	F x_table_finish_row
F uselist	F x_table_flush
F useluamodule	F x_table_init_construct
F useluatable	F x_table_init_reflow_height
F usemathpluginlibrary	F x_table_init_reflow_height_option
F usemodules	F x_table_init_reflow_width
F usepath	F x_table_init_reflow_width_option
F useproduct	F x_table_next_row
F useproject	F x_table_next_row_option
F usereferences	F x_table_r
F useregister	F x_table_reflow_height
F usesubpath	F x_table_reflow_width
F usesymbols	F x_table_set_construct
F usetransliteration	F x_table_set_reflow_height
F useurl	F x_table_set_reflow_width
F usezipfile	F xmladdindex
F utfchar	F xmlaftersetup
F utflower	F xmlall
F utfmathclass	F xmlappendsetup
F utfmathcommand	F xmlapplyselectors
F utfmathcommandfiller	F xmlatt
F utfmathfiller	F xmlattdef
F utfmathstretch	F xmlattribute
F utfshape	F xmlattributedef
F utfstrip	F xmlbadinclusions
F utfupper	F xmlbeforesetup
F uuid	F xmlchainatt
F vboxlisttohbox	F xmlchainattdef
F verbose	F xmlchecknamespace
F vpackbox	F xmlcommand
F vpackedbox	F xmlconcat
F way	F xmlconcatrange
F weekday	F xmlcontext
F weekdayname	F xmlcount
F widthofstring	F xmlcssmappedstylevalue
F widthuptohere	F xmlcssstylevalue
F write	F xmldelete
F writeline	F xmldepth
F writestatus	F xmldirect
F writestring	F xmldirectives
F x_table_c	F xmldirectivesafter
F x_table_cleanup	F xmldirectivesbefore
F x_table_construct	F xmldisplayverbatim
F x_table_create	F xmldoif

F xmldoifatt	F xmlloaddirectives
F xmldoifelse	F xmlloadentities
F xmldoifelseatt	F xmlloadfile
F xmldoifelseempty	F xmlmain
F xmldoifelseselfempty	F xmlmatch
F xmldoifelsetext	F xmlname
F xmldoifempty	F xmlnamespace
F xmldoifnot	F xmlnonspace
F xmldoifnotatt	F xmlpar
F xmldoifnotempty	F xmlparam
F xmldoifnotselfempty	F xmlpath
F xmldoifnottext	F xmlpopmatch
F xmldoifselfempty	F xmlpos
F xmldoiftext	F xmlprependsetup
F xmlelement	F xmlpure
F xmlfileline	F xmlpushmatch
F xmlfilename	F xmlraw
F xmlfilter	F xmlrawtex
F xmlfilterlist	F xmlrefatt
F xmlfirst	F xmlregisterns
F xmlflush	F xmlremapname
F xmlflushcontext	F xmlremapnamespace
F xmlflushlinewise	F xmlremovesetup
F xmlflushpure	F xmlresetinjectors
F xmlflushsetups	F xmlresetsetups
F xmlflushspacewise	F xmlsave
F xmlflushtext	F xmlsetatt
F xmlformulatobuffer	F xmlsetattribute
F xmlfunction	F xmlsetcommandtonone
F xmlgetindex	F xmlsetcommandtotext
F xmlinclude	F xmlsetentity
F xmlincludeoptions	F xmlsetinjectors
F xmlinclusion	F xmlsetpar
F xmlinclusionbase	F xmlsetparam
F xmlinclusions	F xmlsetsetup
F xmlindex	F xmlsnippet
F xmlinlineverbatim	F xmlstartraw
F xmlinstalldirective	F xmlstarttiming
F xmllast	F xmlstopraw
F xmllastatt	F xmlstoptiming
F xmllastmatch	F xmlstrip
F xmllastpar	F xmlstripanywhere
F xmlloadbuffer	F xmlstripeverything
F xmlloaddata	F xmlstripnolines

F xmlstripped
F xmlstrippednolines
F xmltag
F xmltexatt
F xmltexentity
F xmltext
F xmltobuffer
F xmltobuffertextonly
F xmltobufferverbose
F xmltofile
F xmltoparameters
F xmlverbatim
F xmlwithindex
F year
T containers
F cleanname
F content
F define
F is_usable
F is_valid
F read
B usecache
F write
T context
F bc
F bgroup
F char
F concat
D conditionals
F cssdimension
F ctxescape
F ctxescaped
F direct
F egroup
F escape
F escaped
F firstofoneargument
F firstoftwoarguments
F fprint
F getlogger
F glyph
F gobbleoneargument
F latelua
F loadfile

F loadviafile
D modes
F newindexer
F newtexthandler
F newverbosehandler
F nr
F par
F popcatcodes
F poplogger
F printlines
F printtable
F protect
F pushcatcodes
F pushlogger
F rule
F runfile
F runstring
F safechar
F secondoftwoarguments
F setconditional
F setfontid
F setmode
F setsystemmode
F settracing
F settrialtypesettingmethod
F space
F sprint
F startcollecting
F step
F stepwise
F stopcollecting
D systemmodes
F tobuffer
D tokenizedcs
F tolines
F trialtypesetting
F unprotect
F utfchar
F viafile
T converters
F A
F A:es
F A:ru
F A:sl

F AK

F Alphabetic

F Alphabetic:es

F Alphabetic:ru

F Alphabetic:sl

F Character

F Characters

F I

F KA

F KR

F R

F RK

F Romannumerals

F Russiannumerals

F Sloveniannumerals

F Spanishnumerals

F Word

F Words

F a

F a:es

F a:ru

F a:sl

F abjadnodotnumerals

F abjadnumerals

F alphabetic

F alphabetic:es

F alphabetic:ru

F alphabetic:sl

F character

F characters

F chineseallnumerals

F chinesecapnumerals

F chinesedatenumerals

F chinesenumerals

F chr

F chrs

F cn

F cn-a

F cn-c

F cn-d

F convert

F decimals

F define

F gregorian_to_hebrew

F gregorian_to_jalali

F hebrewnumerals

F hexstringtonumber

F i

F isleapyear

F jalali_to_gregorian

F lchexnumber

F lchexnumbers

F leapyear

F lower

F max

F maxchrs

F nicenumber

F nofdays

F number

F numbers

F octnumber

F octstringtonumber

F ordinal

F r

F romannumerals

F russiannumerals

D sequences

F settime

F sloveniannumerals

F spaceddigits

F spanishnumerals

F textime

F toabjad

F tochinese

F tohebrew

F toroman

F totime

F uchexnumber

F uchexnumbers

F upper

F weekday

F word

F words

T coroutine

F close

F create

F isyieldable

F resume

F perlinnoise	S ownmain
F simplexangle	S ownname
F simplexdetail	S ownpath
F simplexnoise	B prerollrun
F stepoctave	D rawarguments
T environment	F reconstructcommandline
F argument	F relativepath
D arguments	F setargument
D basicengines	F splitarguments
N currentrun	S suffix
F definefilefallback	F texfile
F definefilesynonym	S texmfos
D engineflags	S texos
S filename	S texroot
D filesynonyms	F truefilename
N forcedruns	F useluamodule
F getargument	F usemodules
F globfiles	D validengines
S homedir	S version
B initex	F error
B initexmode	T experiments
F initializearguments	D data
F initializefilenames	F default
S inputfilebarename	F disable
S inputfilename	F enable
S inputfilesuffix	F list
S jobfilefullname	S name
S jobfilename	F register
S jobfilesuffix	F report
N kindofrun	F reset
N lmtxmode	F show
F loadexamodes	F value
F loadluafile	F values
F luafile	T figures
F luafilechunk	F applyratio
S luatexengine	F badname
N luatexfunctionality	D bases
S luatexverbose	F bitmapimage
N luatexversion	N boxnumber
N maxnofruns	F bytepalette
S oldhome	D cachepaths
D originalarguments	F check
S outputfilename	D checkers
S ownbin	D conversions

D converters	F set
F current	F setconversion
N defaultdepth	F setlookups
N defaultheight	F setorder
B defaultsearch	F setpaths
N defaultwidth	D suffixes
F done	D used
F dummy	T file
D existers	F addsuffix
F exists	F basename
D formats	F checksum
D found	F collapsepath
F get	F copy
F getinfo	F dirname
F getpdfinfo	F expandname
F getrealpage	F extname
F guess	F is_qualified_path
F guessfromstring	F is_readable
F hash	F is_rootbased_path
D identifiers	F is_writable
F identify	F isreadable
F include	F iswritable
D includers	F join
F initialize	F joinpath
D loaded	F loadchecksum
D localpaths	F nameonly
D magics	F nametotable
F mergegoodies	F needs_updating
N nofmissing	F needsupdating
N nofprocessed	F pathpart
D order	F readdata
D paths	F removesuffix
D patterns	F replacesuffix
F pop	F reslash
B preferquality	F robustname
D programs	F savechecksum
F push	F savedata
F qrcode	F size
F registerpattern	F splitbase
F registerresource	F splitname
F registersuffix	F splitpath
D remappers	F suffix
D resources	F suffixes
F scale	F suffixesonly

F suffixonly
F syncmtimes
F withinbase
T fio
  F getposition
  F read2dot14
  F readbytes
  F readbytetable
  F readcardinal1
  F readcardinal1le
  F readcardinal2
  F readcardinal2le
  F readcardinal3
  F readcardinal3le
  F readcardinal4
  F readcardinal4le
  F readcardinaltable
  F readcline
  F readcstring
  F readfixed2
  F readfixed4
  F readinteger1
  F readinteger1le
  F readinteger2
  F readinteger2le
  F readinteger3
  F readinteger3le
  F readinteger4
  F readinteger4le
  F readintegertable
  F setposition
  F skipposition
  F writecardinal1
  F writecardinal1le
  F writecardinal2
  F writecardinal2le
  F writecardinal3
  F writecardinal3le
  F writecardinal4
  F writecardinal4le
T floats
  F analysemethod
  F checkedpagefloat
  F collect

F consult
F flush
F getvariable
F hasstacked
F nofstacked
F pop
F push
F resave
F save
F stacked
T font
  F addcharacters
  F addquality
  F current
  F define
  F getfont
  F getfontdimen
  F getfontfields
  F getfontspec
  F getmathcharacterfields
  F getmathindex
  F getmathspec
  F getparameterfields
  F gettextcharacterfields
  F id
  F max
  F nextid
  F setfont
  F setfontdimen
  F xscaled
  F yscaled
T fonts
  F current
  F currentid
  F definetypeface
  F enhanceid
  D expansions
  D formats
  F getalternate
  F getindices
  F getkern
  F getmultiple
  F getsubstitution
  F infofont

F mode

D names

D nulldata

D protrusions

F registersanitizer

F reserveid

F toeffect

T functions

  F dummy

F getmetatable

T globaldata

  N CONTEXTLMTXMODE

  N LUAFORMAT

  N LUAMAJORVERSION

  N LUAMINORVERSION

  S LUATEXENGINE

  N LUATEXFORMATID

  N LUATEXFUNCTIONALITY

  S LUATEXVERBOSE

  N LUATEXVERSION

  N LUAVERSION

  F SAVEDREQUIRE

  F assert

  F collectgarbage

  F dimen

  F dofile

  F error

  F getmetatable

  T graphics

    T backgrounds

      F fetchmultipar

      F pair

      F path

      F point

    T bitmaps

      F flush

      F load

      T loaders

        F jpeg

        F jpg

        F png

      F new

      F placeholder

      F tocontext

F bpsize

T colorspaces

T identifiers

  F bitmap

  F jp2

  F jpeg

  F jpg

  F png

F identify

F registerpdfcompactor

F registerpdffont

T synchronizers

  F collapse

  F collect

  F extend

  F getbottom

  F getd

  F geth

  F getkind

  F getsize

  F gettask

  F gettop

  F getw

  F getx

  F gety

  F prune

T gzip

  F compress

  F compressed

  F decompress

  F load

  F save

  F suffix

T helper

  F getprofile

  F mathnested

  F mathprocess

  F mathstep

  F snapindeed

  F snaplist

  F traversecharmethod

  F traverseglyphmethod

  F traversehorizontal

  F traversevertical

```
 F inspect                                     D constants
T interactions                                 D corenamespaces
  D attachments                                S currentinterface
  T fields                                     S currentresponse
    F clone                                    F definecommand
    F define                                   F defined
    F defineset                                F doifelsemessage
    F insert                                   D elements
  T general                                    T floats
    F getidentity                              D formats
    F getidentityvariable                      F getmessage
  T help                                       F getnamespace
    F collect                                  F getsetupstring
    F reference                                D hashedsetups
    F register                                 F implement
  T javascripts                                T integers
    F addtopreamble                            F interfacedcommand
    F code                                     T interfaces
    D codes                                    F knownscanner
    F flushpreambles                           F message
    D functions                                F nameofscanner
    D preambles                                T namesofscanners
    F setpreamble                              T namespaces
    F storecode                                  F define
    F storepreamble                              F list
    F usepreamblenow                           T numbers
    F usescripts                               F registernamespace
  D linkedlists                                F registerscanner
  T pages                                      D scanners
    F setpagetransition                        F setconstant
    F setupcanvas                              F setcount
  T references                                 F setdimen
    F setclosedocumentaction                   F setelement
    F setclosepageaction                       F setformat
    F setopendocumentaction                    F setmacro
    F setopenpageaction                        F setmessage
  D renderings                                 F setmessages
T interfaces                                   F settranslation
  T arrays                                     D setupstrings
  D cachedsetups                               F setvariable
  F cachesetup                                 F showmessage
  T cardinals                                  D storedscanners
  F checkedspecification                       F tolist
  D complete                                   D translations
```

```
    D usednamespaces                    D tobesaved
    D variables                         F disablesave
    F writestatus                       T embedded
T io                                    D collected
    F ask                               D tobesaved
    F bytes                         T fileobjreferences
    F characters                        D collected
    F close                             D tobesaved
    F copydata                      T files
    F exists                            D collected
    S fileseparator                     F context
    F flush                             B forcerun
    F gobble                            F run
    F input                             D tobesaved
    F lines                         F getrandomseed
    F loadchunk                     F initialize
    F loaddata                      T linkedlists
    F loadlines                         D collected
    F newreader                         D tobesaved
    F noflines                      F load
    F open                          F loadother
    F output                        T meshedup
    S pathseparator                     D collected
    F popen                             D tobesaved
    F read                          T objects
    F readall                           D collected
    F readnumber                        F get
    F readstring                        F number
    F savedata                          F page
    F size                              F save
    U stderr                            F set
    U stdin                             D tobesaved
    U stdout                        B pack
    F tmpfile                       N packversion
    F type                          T pagestates
    F write                             D collected
F ipairs                                F countervalue
T job                                   F extend
    F comment                           F realpage
    T datasets                          F realpageorder
        D collected                     F setstate
        F extend                        D tobesaved
        F getdata                   T parwrappers
        F setdata                       D collected
```

```
  D tobesaved                              F r
T positions                               F region
  F b_column                              F registerhandlers
  F b_region                              F replace
  F c                                     F rightskip
  D collected                             F set
  F column                                F setall
  F columnofpos                           F setregionbox
  F copy                                  F setspec
  F depth                                 F settobesaved
  F e_column                              D tobesaved
  F e_region                              F upperleft
  F enhance                               F upperright
  F extra                                 F used
  F get                                   F whd
  F getcolumndata                         F width
  F getfree                               F x
  F gethpos                               F xy
  F gethvrpos                             F y
  F getpos                              F register
  F getreserved                         F save
  F getrpos                             T structure
  F getsync                               D collected
  F gettobesaved                          T components
  F getvpos                               T namestack
  F hangafter                             T tobesaved
  F hangindent                              T branches
  F height                                  S name
  F hsize                                   S type
  N lastr                                 T variables
  N lastx                                   D checksums
  N lasty                                   D collected
  F leftskip                                F getchecksum
  F lowerleft                               F makechecksum
  F lowerright                              F restore
  F markregionbox                           F save
  F n                                       F setchecksum
  F onsamepage                              D tobesaved
  F overlapping                           N version
  F p                                   T kpse
  F page                                T language
  F paragraph                             F clean
  F parindent                             F clearhyphenation
  F position                              F clearpatterns
```

```
  F current                              F expanded
  F gethjcode                            B none
  F has_language                         F original
  F hyphenate                            F tex
  F hyphenation                          F traditional
  F hyphenationmin                     F popmethod
  F id                                 F pushmethod
  F new                                F setmethod
  F patterns                           F setup
  F postexhyphenchar                   F showhyphenationtrace
  F posthyphenchar                     T traditional
  F preexhyphenchar                      F definefeatures
  F prehyphenchar                        F gettrace
  F sethjcode                            F hyphenate
  F setwordhandler                       F injecthyphens
T languages                              F installmethod
  F addgoodiesdata                       F lasttrace
  F addgoodiesfile                       F loadpatterns
  T appliedoptions                       F registerexception
  F associate                            F registerpattern
  D associated                           F setfeatures
  F association                        F installed
  D counters                           F installhandler
  F current                            T labels
  D data                                 F define
  D decimals                             F split
  F define                             F loadable
  F explicithyphen                     F loadwords
  F exportlanguage                     T logger
  F flatten                              F report
  T frequencies                        F nofflattened
    F averagecharwidth                 D numbers
    F getdata                          F pdflanguage
  F getdata                            F postexhyphenchar
  F getmetadata                        F posthyphenchar
  F getnumber                          F preexhyphenchar
  F goodiefiles                        F prehyphenchar
  T hjcounts                           D registered
  F hyphenate                          T registeredactions
  T hyphenators                        T replacements
    T dictionaries                       F add
    D featuresets                        F addlist
    F handler                            F handler
    T methods                            F set
```

F	serializediscretionary	T	lfs
F	setexceptions	F	attributes
F	setgoodieshandler	F	chdir
F	setoptions	F	currentdir
F	setpatterns	F	dir
F	setsynonym	F	isdir
F	setwordhandler	F	isfile
F	showdiscretionaries	F	isfound
F	strippedgoodiewords	F	isreadabledir
F	tolang	F	isreadablefile
T	transliteration	F	iswriteabledir
F	exception	F	iswriteablefile
F	handler	F	link
F	register	F	mkdir
F	set	F	mkdirs
F	use	F	modification
F	unload	F	readlink
T	urls	F	rmdir
D	characters	F	setexecutable
N	lefthyphenmin	F	symlink
D	mapping	F	symlinktarget
B	packslashes	F	touch
N	righthyphenmin	F	walkdir
F	setcharacters	T	libraries
N	version	D	basiclua
F	visualizediscretionaries	D	basictex
T	words	D	builtin
F	check	D	extralua
T	data	D	extratex
F	disable	D	functions
F	enable	D	globals
T	enablers	D	obsolete
B	enables	D	optional
F	found	T	lmx
F	load	F	color
T	methods	F	convert
N	threshold	F	convertfile
T	layouts	F	convertstring
F	getcanvas	F	einject
F	getpagedimensions	F	eprint
F	setupcanvas	F	escape
T	status	F	finalized
F	isleftpage	F	finject
F	leftorrightpageaction	F	fprint

F get
F getvariables
F htmfile
T html
  F a
  F td
  F th
F include
T inherited
  S color-background-four
  S color-background-one
  S color-background-three
  S color-background-two
  S title
F initialize
F inject
F lmxfile
F loadedfile
F make
F new
F popupfile
F print
F pv
F report
F reset
F result
F set
F show
F stripcss
F tv
F type
F urlescape
F variable
T variables
  S color-background-blue
  S color-background-body
  S color-background-green
  S color-background-main
  S color-background-purple
  S color-background-yellow
  S title-default
F load
D loaders
F loadfile

F loadstring
T logs
  F application
  F categories
  F direct
  F disable
  F enable
  F finalactions
  F flush
  F loggingerrors
  F messenger
  F new
  F newline
  F poplogfile
  F poptarget
  T private
    F enablepagetiming
    F getpagetiming
  F pushlogfile
  F pushtarget
  F registerfinalactions
  F report
  F reporter
  F resetlogfile
  F setformats
  F setformatters
  F setlogfile
  F setmessenger
  F setprocessor
  F settarget
  F settimedlog
  F settranslations
  F show
  F start_page_number
  F start_run
  F starterrorlogging
  F startfilelogging
  F status
  F stop_page_number
  F stoperrorlogging
  F stopfilelogging
  F subdirect
  F subreport
  F system

```
F texerrormessage                         F copystring
F writer                                   F copyunicode
T lpdf                                     F deferredobject
  F action                                 F delayedobject
  F adddocumentcolorspace                  F destinationspecification
  F adddocumentextgstate                   F dictionary
  F adddocumentpattern                     F docstring
  F adddocumentshade                       T encodingvalues
  F addtocatalog                             N base16
  F addtoinfo                                N base85
  F addtonames                               N decoded
  F addtopageattributes                      N encoded
  F addtopageresources                       N plain
  F addtopagesattributes                     N utf16be
  F addxmpinfo                               N utf16le
  F annotationspecification                T endpoints
  F array                                    S Div
  F attachmentsymbols                        S Part
  F boolean                                  S Sect
  F border                                 T epdf
  F checkedkey                               F allcontent
  F checkedresources                         F analyzefonts
  F checkedvalue                             F contentplugin
  F circularshade                            F contenttostring
  F close                                    F contenttotext
  F cmykcode                                 D encryptioncodes
  F collectedresources                       F expanded
  F color                                    F expandwidths
  F colorspace                               F fontplugin
  D colorspaceconstants                      F getpagecontent
  F colorspec                                F getstructure
  F colorvalue                               T helpers
  F colorvalues                                F tounicodetable
  F commentsymbols                           T image
  F compressdata                               F close
  F compresslevel                              F copy
  F constant                                   F new
  F copyarray                                  F open
  F copyboolean                                F query
  F copyconstant                             F load
  F copydictionary                           F mergewidths
  F copyfloat                                D objectcodes
  F copyinteger                              F objectrange
  F copynumber                               F objecttype
```

F pageplugin
F parsecontent
F producer
T resolvers
  F destinations
  F embeddedfiles
  F javascripts
  F layers
  F pages
  F structure
  F widgets
 F unload
 F verboseobject
F escaped
F finalizedocument
F finalizepage
F finalizesignature
F finishtransparencycode
T flags
 T annotations
  N AutoView
  N Hidden
  N Invisible
  N Locked
  N LockedContents
  N NoRotate
  N NoView
  N NoZoom
  N Print
  N Printable
  N ReadOnly
  N ToggleNoView
  N auto
  N hidden
  N printable
 T widgets
  N Comb
  N CommitOnSelChange
  N DoNotScroll
  N DoNotSpellCheck
  N Edit
  N FileSelect
  N MultiLine
  N NoExport

N NoToggleToOff
N Password
N PopUp
N PushButton
N Radio
N RadiosInUnison
N ReadOnly
N Required
N RichText
N Sort
N file
N fixed
N nocheck
N protected
N readonly
N required
N sorted
N unavailable
F flushfonts
F flushgroup
F flushobject
F flushstreamfileobject
F flushstreamobject
T fonts
  F color_direct
  F color_indirect
D formats
F frombytes
F fromeight
F frompdfdoc
F fromsixteen
F getcatalog
F getcompression
F getfontname
F getfontobjectnumber
F getformatoption
F getinfo
F getmatrix
F getnofpages
F getpageproperties
F getpagereference
F getpagetags
F getpos
F gettaggingstatus

F	gettrailerid
F	getversion
F	getxformname
F	graycode
T	h_hex_2
S	
S	
S	
S	
S	
S	(
S	)
S	\
T	h_hex_4
F	hasmatrix
F	immediateobject
F	includeimage
F	initialize
T	injectors
F	bitmap
F	jp2
F	jpg
F	png
F	injectxmpinfo
F	insertxmpinfo
F	lastreferredpage
F	layerreference
F	limited
F	linearshade
F	literal
F	majorversion
F	makenametree
F	minorversion
F	noffontregistries
F	nofpages
F	null
F	number
F	object
F	objectcompresslevel
F	pagereference
F	patternstream
F	pdfcolor
F	pdftimestamp
T	permissions

N	access
N	add
N	assemble
N	extract
N	fillin
N	modify
N	print
N	quality
F	preparesignature
F	print
F	procset
B	protectresources
F	quads
F	rectangle
F	reference
F	registerannotation
F	registerdestination
F	registerdocumentfinalizer
F	registerfontmethod
F	registerinitializer
F	registerpagefinalizer
F	registerpattern
F	registersignature
F	replacexmpinfo
F	reserveobject
F	rgbcode
F	rotationcm
F	setcompression
F	setencryption
F	setpageorder
F	setpagestate
F	setpagetag
F	setutfstringmode
F	setversion
F	sharedobject
F	shareobject
F	shareobjectreference
F	splitsixteen
F	spotcode
F	stream
F	string
F	supportedformats
F	tocidset
F	toeight

F topdfdoc
F topermissions
F tosixteen
F transparency
F transparencycode
T transparencygroups
  B none
F transparencyvalue
F unicode
T usedcharacters
T usedfontnames
  N dejavusansmonoboldttf-1-0-0
T usedfontobjects
  N dejavusansmonoboldttf-1-0-0
D usedfontstreams
T usedindices
  T dejavusansmonoboldttf-1-0-0
  T dejavusansmonottf-1-0-0
F verbose
T lpeg
  F B
  F C
  F Carg
  F Cb
  F Cc
  F Cf
  F Cg
  F Cmt
  F Cp
  F Cs
  F Ct
  F P
  F R
  F S
  F UP
  F UR
  F US
  F V
  F afterprefix
  F anywhere
  F append
  F balancer
  F beforesuffix
  F checkedsplit

F containsws
F counter
F endstripper
F finder
F firstofsplit
F frontstripper
F instringchecker
F is_lpeg
F keeper
F locale
F match
F oneof
D patterns
F pcode
F print
F ptree
F replacer
F secondofsplit
F setmaxstack
F setutfcasers
F split
F splitat
F splitter
F stripper
F times
F tsplitat
F tsplitter
F type
F utfR
F utfchartabletopattern
F utfreplacer
S version
T lua
  F addnibble
  T bytecode
  D bytedata
  T bytedone
  F callbytecode
  F comparekeys
  F finalizeinitex
  N firstbytecode
  F get_functions_table
  F getallkeys
  F getbytecode

F getcheckedkeys	F registerpageactions
F getcurrenttime	F registerstartactions
F getdebuginfo	F registerstopactions
F getexitcode	F registertempfile
F getfunctionstable	N starttime
F getnibble	T synctex
F getnumerickeys	F blockfilename
F getpreciseseconds	F collect
F getpreciseticks	F disable
F getruntime	F enable
F getstacktop	F finish
F getstartupfile	F isenabled
F getstringkeys	F pause
F getversion	F popline
N lastbytecode	F pushline
D messages	F registerdisabler
F newindex	F registerenabler
F newtable	F resetfilename
D numbers	F resume
F protectglobal	F setfilename
F registercode	F setup
F registeredcodes	F start
F registerglobal	F stop
F registerinitexfinalizer	F wrapup
F registername	F wrapup
F setbytecode	T lxml
F setexitcode	F addindex
F setnibble	F all
S startupfile	F applyfunction
F subnibble	F applyselectors
S version	F att
T luac	F attribute
F inspect	F badinclusions
F print	F chainattribute
T luatex	F checkindex
F abort	F collected
F cleanup	F command
F cleanuptempfiles	F concat
F currentfile	F concatrange
F currentlevel	F content
F currenttotal	F context
F poprunstate	F convert
F pushrunstate	F count
F registerdumpactions	F delete

F	depth	F	lastatt
F	direct	F	lastmatch
T	directives	F	lastpar
F	after	F	load
F	before	F	loadbuffer
F	handle	F	loaddata
F	load	T	loaded
F	setup	F	main
F	displayverbatim	F	match
F	doif	F	name
F	doifelse	F	namespace
F	doifelseempty	F	nonspace
F	doifelsetext	T	obsolete
F	doifempty	F	get_id
F	doifnot	F	par
F	doifnotempty	F	param
F	doifnottext	F	parameter
F	doiftext	F	path
F	element	F	popmatch
F	elements	F	pos
D	entities	F	position
F	fileline	F	pure
F	filename	F	pushmatch
F	filter	F	raw
F	filterlist	F	rawroot
F	first	F	rawtex
F	flush	F	refatt
F	flushlinewise	F	register
F	flushsetups	F	registerentity
F	flushspacewise	F	removesetup
F	get_id	F	replace
F	getid	F	resetcdata
F	getindex	F	resetsetups
F	id	F	resolvedentity
U	idsplitter	F	root
F	ifatt	F	save
F	ifattempty	F	serialize
F	include	F	setaction
F	inclusion	F	setatt
F	inclusions	F	setattribute
F	index	F	setcdata
F	inlineverbatim	F	setcommandtonone
F	installsetup	F	setcommandtotext
F	last	F	setpar

F	setparam	F	floor
F	setparameter	F	fmod
F	setsetup	F	frexp
F	snippet	N	huge
T	sorters	N	initialseed
F	add	F	ldexp
F	compare	F	log
F	flush	F	log10
F	reset	F	max
F	show	N	maxinteger
F	sort	F	min
F	splitid	N	mininteger
F	startraw	F	mod
F	startunescaped	F	modf
F	stopraw	F	odd
F	stopunescaped	N	pi
F	store	F	pow
F	strip	F	rad
F	stripped	F	random
F	tag	F	randomseed
F	texatt	F	round
F	text	F	setrandomseedi
F	tobuffer	F	sin
F	tofile	F	sind
F	toparameters	F	sinh
F	toverbatim	F	sqrt
F	verbatim	F	tan
F	withindex	F	tand
D	xmltexhandler	F	tanh
T	math	F	tointeger
F	abs	F	type
F	acos	F	ult
F	asin	T	mathematics
F	atan	F	addfallbacks
F	atan2	F	addvariant
F	ceil	D	alphabets
F	ceiling	D	alternatives
F	cos	F	beforepassingfonttotex
F	cosd	F	big
F	cosh	D	boldmap
F	deg	T	categories
F	div	D	functions
F	even	D	charactersets
F	exp	F	checkaftercopyingfont

D classes	F makefont
D classnames	D mapremap
D codes	F markblobindexdone
F define	F overloadparameters
T dictionaries	F preset
D data	T presets
D defaults	T less
D groups	T more
F groupset	T zero
F groupsetgroup	N privatebase
F name	F registerextensible
D names	F registersimplematrix
F registercharacter	F registerverboselabel
F registergroup	F remapalphabets
F registergroupset	F renderextensible
D sets	T renderings
D variants	D mappings
F dimensions	D numbers
F disablecollecting	D sets
T domainlabels	F renderset
T domainnames	F resetattributes
N default	F scaleparameters
F enablecollecting	F setextensibledata
F extensiblecode	F setmathsymbol
D extensibles	D sets
N extrabase	F setsnapping
T fallbacks	F setvariant
F apply	F strutcode
F install	D styles
F fallbackstyleattr	F syncboth
F familyname	F syncname
F functiontype	F syncstyle
D gaps	T tagging
F getblobindex	B mfenced
F getboth	F toengineclass
F getdomainname	F toname
F getextensibledata	F tostyle
F getmathblob	F tweakaftercopyingfont
F getoptionallabel	F tweakbeforecopyingfont
F getstyle	T tweaks
F gettextblob	F accentdimensions
F getverboselabel	F action
F horizontalcode	F addactuarian
F initializeparameters	F addarrows

F variantcount	N leftdelimiter
F virtualize	N let
D virtualized	N macrodef
T md5	N macrospecial
F HEX	N maketext
F dec	N message
F hex	N mode
F sum	N newbytemap
F sumHEXA	N newinternal
F sumhexa	N nullary
T metapost	N numeric
F checkformat	N of
F checktracingonline	N ofbinary
F cm	N onlyset
T codes	N parametertype
N addto	N pathconnect
N ampersand	N pathjoin
N and	N plusorminus
N assignment	N primarybinary
N atleast	N primarydef
N begingroup	N property
N btex	N protection
N capsule	N relax
N colon	N repeatloop
N comma	N rightbrace
N controls	N rightbracket
N curl	N rightdelimiter
N cycle	N runscript
N definedmacro	N save
N delimiters	N scantokens
N endgroup	N secondarybinary
N equals	N secondarydef
N etex	N semicolon
N everyjob	N setbounds
N exittest	N shipout
N expandafter	N show
N fiorelse	N slash
N if	N step
N input	N stop
N interim	N str
N internal	N string
N iteration	N tag
N leftbrace	N tension
N leftbracket	N tertiarybinary

N tertiarydef	F getinstancebyname
N thingstoadd	F getinstanceinfo
N to	F getinstancenames
N typename	F getjobdata
N unary	F getmovetolerance
N undefinedcs	F getparameter
N until	F getparameterpreset
N void	F getparameterset
N with	F getrecord
N within	F getstatistics
N write	F gettext
F colorinitializer	F gettolerance
F convert	F graphic
F currentmpx	F graphic_base_pass
F currentmpxstatus	F hascurvature
S defaultformat	F includesvgbuffer
S defaultinstance	F includesvgfile
S defaultmethod	F installplugin
F directrun	F isobject
F escaped	T knownparameters
T exectime	S lastlog
D extensiondata	F load
F filterclippath	F maketext
F flush	F mesh
T flushers	T metafonts
T pdf	T metafun
F flushfigure	F interpolate
F startfigure	F topath
F stopfigure	T mptopdf
F textfigure	F convertmpstopdf
F tocomment	N nofconverted
F flushnormalpath	N n
T fonts	F newlogger
F define	N nofruns
F format_number	F nofscriptruns
F format_string	F nvformat
F formatnumber	F pdfliterals
F getbackendoption	F pluginactions
F getbendtolerance	F popformat
F getbuffer	F popscriptrunner
F getclippath	F popvariable
F getextensions	F popvariables
F getextradata	F preparetextextsdata
F gethashentries	F process

F processing	F stopsvghashing
F processplugins	F svformat
T properties	B svgcachefile
F pushformat	F svgcolorremapper
F pushscriptrunner	T svgfactors
F pushvariable	N %
F pushvariables	N bp
B quitonerror	N cm
B reducetogray	N em
F registerdirect	N ex
F registerscript	N in
F registertokens	N mm
F remappedtext	N pc
F remaptext	N pt
F reporterror	N px
F reportsvgfonts	F svgglyphtomp
F reset	F svgshapestomp
F resetbackendoptions	F svgshapestopdf
F resetlastlog	F svgsplitcolor
F resetplugins	F svgtomp
F run	F svgtopdf
F runinternal	F sxsy
F runscript	T tex
F scanparameters	F get
F scriptindex	F reset
F setbendtolerance	F set
F setbuffer	F setfrombuffer
F setextensions	B texerrors
F setlogging	F texexp
F setmovetolerance	F theclippath
F setoutercolor	F tographic
F setparameter	F totable
F setparameterset	T types
F setrecord	N boolean
F settext	N cmykcolor
F settolerance	N color
F setvariable	N dependent
B showlog	N independent
F showsvgpage	N known
F simple	N nep
F splitprescript	N numeric
F startgraphic	N pair
F startsvghashing	N path
F stopgraphic	N pen

N picture
N protodependent
N string
N structured
N suffixedmacro
N tokenlist
N transform
N unknownboolean
N unknownnep
N unknownpath
N unknownpen
N unknownpicture
N unknownstring
N unsuffixedmacro
N vacuous
  F typesvgpage
  F unload
  F untagvariable
  T variables
T mime
  F b64
  F decode
  T decodet
    F base64
    F quoted-printable
  F dot
  F encode
  T encodet
    F base64
    F quoted-printable
  F eol
  F normalize
  F qp
  F qpwrp
  F report
  F stuff
  F unb64
  F unqp
  F wrap
  T wrapt
    F base64
    F default
    F quoted-printable
    F text

  F wrp
T moduledata
T modules
  D anch-loc
  D anch-pgr
  D anch-snc
  D back-exp
  D back-exp-imp-fnt
  D back-exp-imp-mth
  D back-exp-imp-ref
  D back-exp-imp-tag
  D back-imp-lua
  D back-imp-mps
  D back-imp-pdf
  D back-imp-pdp
  D back-inc
  D blob-ini
  D buff-imp-default
  D buff-imp-escaped
  D buff-imp-lua
  D buff-imp-mp
  D buff-imp-nested
  D buff-imp-parsed-xml
  D buff-imp-tex
  D buff-imp-xml
  D buff-ini
  D buff-par
  D buff-ver
  D char-enc
  D chem-ini
  D chem-str
  D cldf-com
  D cldf-ver
  D colo-icc
  D colo-ini
  D cont-run
  D core-con
  D core-ctx
  D core-dat
  D core-sys
  D driv-shp
  D file-mod
  D file-syn
  D font-afk

```
D font-agl                          D font-one
D font-aux                          D font-onr
D font-cff                          D font-osd
D font-chk                          D font-ota
D font-cid                          D font-otc
D font-col                          D font-otd
D font-con                          D font-oth
D font-ctx                          D font-oti
D font-def                          D font-otj
D font-dsp                          D font-otl
D font-enc                          D font-oto
D font-enh                          D font-otr
D font-fbk                          D font-ots
D font-fmp                          D font-ott
D font-hsh                          D font-oup
D font-imp-checks                   D font-pat
D font-imp-combining                D font-prv
D font-imp-compound                 D font-san
D font-imp-digits                   D font-sel
D font-imp-dimensions               D font-shp
D font-imp-effects                  D font-sol
D font-imp-italics                  D font-syn
D font-imp-ligatures                D font-tfm
D font-imp-math                     D font-tpk
D font-imp-notused                  D font-trt
D font-imp-properties               D font-ttf
D font-imp-quality                  D font-txt
D font-imp-reorder                  D font-vfc
D font-imp-scripts                  D font-vir
D font-imp-spacekerns               D good-ctx
D font-imp-tex                      D good-gen
D font-imp-text                     D good-ini
D font-imp-tracing                  D good-mth
D font-imp-tweaks                   D grph-bmp
D font-imp-unicode                  D grph-con
D font-ini                          D grph-epd
D font-lig                          D grph-fil
D font-log                          D grph-img
D font-lua                          D grph-inc
D font-map                          D grph-pat
D font-mpf                          D grph-raw
D font-mps                          D grph-rul
D font-nod                          D grph-trf
D font-ogr                          D grph-u3d
```

```
D java-ini                              D lxml-sor
D lang-cnt                              D lxml-tex
D lang-def                              D math-act
D lang-dis                              D math-ali
D lang-exc                              D math-dim
D lang-hup                              D math-ext
D lang-hyp                              D math-fbk
D lang-ini                              D math-fnt
D lang-lab                              D math-frc
D lang-rep                              D math-ini
D lang-tra                              D math-map
D lang-txt                              D math-mps
D lang-url                              D math-noa
D lang-wrd                              D math-pre
D libs-imp-curl                         D math-rad
D libs-imp-ghostscript                  D math-ren
D libs-imp-graphicsmagick               D math-spa
D libs-ini                              D math-tag
D lpdf-ano                              D math-ttv
D lpdf-col                              D math-txt
D lpdf-epa                              D math-vfu
D lpdf-epd                              D meta-blb
D lpdf-fix                              D meta-fnt
D lpdf-fix-imp-contents                 D meta-fun
D lpdf-fix-imp-fonts                    D meta-imp-txt
D lpdf-fld                              D meta-ini
D lpdf-fmt                              D meta-lua
D lpdf-grp                              D meta-nod
D lpdf-img                              D meta-pdf
D lpdf-ini                              D meta-tex
D lpdf-lmt                              D mlib-ctx
D lpdf-mis                              D mlib-fio
D lpdf-ren                              D mlib-int
D lpdf-rul                              D mlib-lmp
D lpdf-sig                              D mlib-lmt
D lpdf-tag                              D mlib-lua
D lpdf-u3d                              D mlib-mat
D lpdf-wid                              D mlib-mpf
D lpdf-xmp                              D mlib-msh
D lxml-css                              D mlib-pdf
D lxml-dir                              D mlib-pos
D lxml-ent                              D mlib-pps
D lxml-ini                              D mlib-ptr
D lxml-mms                              D mlib-ran
```

D mlib-run	D scrn-pag
D mlib-scn	D scrn-ref
D mlib-snc	D scrn-wid
D mlib-svg	D scrp-cjk
D node-ali	D scrp-eth
D node-bck	D scrp-ini
D node-fnt	D scrp-tha
D node-par	D scrp-tib
D node-ref	D sort-ini
D node-rul	D sort-lan
D node-tra	D spac-ali
D node-typ	D spac-brk
D pack-obj	D spac-chr
D pack-ori	D spac-hor
D pack-rul	D spac-ovl
D page-blk	D spac-par
D page-cst	D spac-pas
D page-flt	D spac-prf
D page-ini	D spac-twi
D page-inj	D spac-ver
D page-ins	D strc-bkm
D page-lin	D strc-blk
D page-mix	D strc-con
D page-otr	D strc-doc
D page-pst	D strc-flt
D page-sel	D strc-ini
D page-str	D strc-itm
D phys-dim	D strc-lev
D publ-aut	D strc-lst
D publ-dat	D strc-mar
D publ-fnd	D strc-mat
D publ-inc	D strc-not
D publ-ini	D strc-num
D publ-jrn	D strc-pag
D publ-oth	D strc-ref
D publ-reg	D strc-reg
D publ-sor	D strc-rsc
D publ-tra	D strc-syn
D publ-usr	D strc-tag
D regi-ini	D strc-usr
D scrn-but	D symb-emj
D scrn-fld	D symb-ini
D scrn-hlp	D syst-cmp
D scrn-ini	D tabl-ali

```
F fillbytemap                              F lmt_glyphshape_usedbox
F flatten                                  F lmt_glyphshape_usedline
F flush                                    F lmt_glyphshape_width
F format                                   F lmt_mesh_set
F formatted                                F lmt_mesh_update
F fprint                                   F lmt_poisson_generate
T get                                      F lmt_start_potrace
  F hashentry                              F lmt_step_potrace
F getbytemap                               F lmt_stop_potrace
F getbytemapdata                           F lmt_svg_include
F getlastaddtype                           F loadbytemap
F graphformat                              F loadbytemapfile
T inject                                   F mesh_register
  F boolean                                F mf_blob_add
  F cmykcolor                              F mf_blob_dimensions
  F color                                  F mf_blob_index
  F integer                                F mf_blob_new
  F number                                 F mf_blob_raw_content
  F numeric                                F mf_blob_raw_dimensions
  F pair                                   F mf_blob_raw_reset
  F path                                   F mf_blob_raw_toutf
  F pt                                     F mf_blob_raw_wipe
  F quadruplet                             F mf_blob_size
  F string                                 F mf_blob_width
  F transform                              F mf_external_figure
  F triplet                                F mf_finish_saving_data
  F vector                                 F mf_formatted_text
  F vectors                                F mf_get_outline_text
  F whatever                               F mf_graphic_text
  F whd                                    F mf_inject_blob
  F xy                                     F mf_map_move
F integer                                  F mf_map_text
F lmt_function_x                           F mf_named_color
F lmt_glyphshape_accent                    F mf_outline_text
F lmt_glyphshape_baseline                  F mf_save_data
F lmt_glyphshape_boundingbox               F mf_script_index
F lmt_glyphshape_depth                     F mf_start_saving_data
F lmt_glyphshape_height                    F mf_stop_saving_data
F lmt_glyphshape_italic                    F mode
F lmt_glyphshape_llx                       F n
F lmt_glyphshape_n                         F newbytemap
F lmt_glyphshape_path                      F number
F lmt_glyphshape_start                     F numeric
F lmt_glyphshape_stop                      F pair
```

```
  F pairpoints                      F downgradebytemap
  F path                            F downsamplebytemap
  F pathpoints                      F execute
  F points                          F expandtex
  F processbytemap                  F fillbytemap
  F processingmode                  F finder
  F quadruple                     T finders
  F quadruplepoints                 F file
  F quoted                          F mpstemplate
  F report                          F finish
T scan                              F getbytemap
  F boolean                         F getbytemapdata
  F cmykcolor                       F getcallbackstate
  F color                           F getcodes
  F expression                      F getcolormodels
  F integer                         F getfields
  F next                            F gethashentries
  F number                          F gethashentry
  F numeric                         F getinternalactions
  F pair                            F getknotstates
  F path                            F getlastaddtype
  F pen                             F getlogtargets
  F property                        F getobjectdata
  F string                          F getobjectpeninfo
  F symbol                          F getobjectstacking
  F token                           F getobjecttypes
T tokenscanners                     F getpruneoptions
  F transform                       F getresultstatus
T typescanners                      F getscaledbits
  F whatever                        F getscantypes
T set                               F getstates
  F setbytemap                      F getstatistics
  F setbytemapoctave                F getstatus
  F size                            F gettolerance
T skip                              F gettype
  F token                           F gettypes
  F solve                           F injectboolean
  F string                          F injectcmykcolor
  F systemmode                      F injectcolor
  F transform                       F injectinteger
  F triplet                         F injectnumber
  F tripletpoints                   F injectnumeric
  F vprint                          F injectpair
T mplib                             F injectpath
```

```
  F injectstring                         F dictionaries
  F injecttransform                      F export
  F injectvector                         F families
  F injectvectors                        F fencing
  F injectwhatever                       F intervals
  F new                                  F kernpairs
  F newbytemap                           F makeup
  F peninfo                              F normalize
  F processbytemap                       F numbers
  T propertycodes                        F relocate
  B realtimelogging                      F render
  F scanboolean                          F showtree
  F scancmykcolor                        F snap
  F scancolor                            F spacing
  F scanexpression                       F suspicious
  F scaninteger                          F tags
  F scannext                             F unscript
  F scannumber                           F unstack
  F scannumeric                          F variants
  F scanpair                           F process
  F scanpath                           F processnested
  F scanpen                            T processors
  F scanproperty                         T dictionaries
  F scanstring                           T intervals
  F scansymbol                           T suspicious
  F scantoken                            T unscript
  F scantransform                        T unstack
  F setbytemap                         F processouter
  F setbytemapoctave                   T node
  F settolerance                         F checkdiscretionaries
  F showcontext                          F checkdiscretionary
  F skiptoken                            F copy
  F solvepath                            F copylist
  F version                              F count
T nanojpeg                               F currentattributes
  F decode                               F dimensions
F next                                   T direct
T noads                                    F addmargins
  F getmathmode                            F addxoffset
  T handlers                               F addxymargins
    F alternates                           F addyoffset
    F autofences                           F appendaftertail
    F classes                              F appendcurrenttail
    F collapse                             F beginofmath
```

F checkdiscretionaries	F getdegree
F checkdiscretionary	F getdelimiter
F collapsing	F getdenominator
F copy	F getdepth
F copylist	F getdirection
F copyonly	F getdisc
F count	F getdiscpart
F currentattributes	F getexcept
F dimensions	F getexpansion
F effectiveglue	F getfam
F endofmath	F getfield
F exchange	F getfielderror
F fields	F getfirstdirectioninlist
F findattribute	F getfont
F findattributerange	F getfontcheck
F findnode	F getgeometry
F firstchar	F getglue
F firstglyph	F getglyphdata
F firstglyphnode	F getglyphdimensions
F firstitalicglyph	F getheight
F flattendiscretionaries	F getid
F flattenleaders	F getidsubtype
F flushlist	F getidsubtypenext
F flushnode	F getindex
F free	F getinputfields
F freeze	F getkern
F getanchors	F getkerndimension
F getattribute	F getlanguage
F getattributelist	F getleader
F getattributes	F getleftdelimiter
F getboth	F getlist
F getbottom	F getlistdimensions
F getbottomdelimiter	F getlocalparboxstate
F getbox	F getmvllist
F getcachestate	F getnaturalwhd
F getchar	F getnext
F getchardict	F getnodeerrorvalues
F getcharspec	F getnodes
F getchoice	F getnormalizedline
F getclass	F getnucleus
F getcontrol	F getnumerator
F getcornerkerns	F getoffsets
F getcurrenttail	F getoptions
F getdata	F getorientation

F getparstate	F hasglyphoption
F getpenalty	F hasidsubtype
F getpost	F hasusage
F getpre	F hpack
F getprev	F hyphenating
F getprime	F id
F getpropertiestable	F ignoremathskip
F getproperty	F insertafter
F getreplace	F insertbefore
F getrightdelimiter	F insertcurrenthead
F getruledimensions	F isboth
F getscale	F ischar
F getscales	F ischarcheck
F getscript	F ischardisc
F getscripts	F isdirect
F getshift	F isfontcheck
F getshort	F isglyph
F getslant	F isitalicglyph
F getspeciallist	F isloop
F getstate	F isnext
F getsub	F isnextchar
F getsubpre	F isnextcharcheck
F getsubtype	F isnextglyph
F getsup	F isnode
F getsuppre	F isprev
F gettop	F isprevchar
F gettopdelimiter	F isprevcharcheck
F gettotal	F isprevglyph
F getusage	F issimilarglyph
F getusedattributes	F issnapped
F getweight	F isspeciallist
F getwhd	F isvalid
F getwidth	F iszeroglue
F getwordrange	F kerning
F getxscale	F lastnode
F getxyscales	F length
F getyscale	F ligaturing
F gluetostring	F makeextensible
F hasattribute	F markglyphprocessing
F hasdimensions	F migrate
F hasdiscoption	F mlisttohlist
F hasfield	F naturalhsize
F hasgeometry	F naturalwidth
F hasglyph	F new

F newcontinuationatom	F setexpansion
F newfontcheck	F setfam
F newmathglyph	F setfield
F newtextglyph	F setfielderror
F patchattributes	F setfont
F patchparshape	F setfontcheck
F prependbeforehead	F setgeometry
F prependcurrenttail	F setglue
F protectglyph	F setglyphdata
F protectglyphs	F setheight
F protectglyphsbase	F setindex
F protectglyphsnone	F setinputfields
F protrusionskippable	F setkern
F rangedimensions	F setlanguage
F remove	F setleader
F removefromlist	F setleftdelimiter
F repack	F setlink
F reverse	F setlist
F samefontcheck	F setnext
F serialized	F setnucleus
F setanchors	F setnumerator
F setattribute	F setoffsets
F setattributelist	F setoptions
F setattributes	F setorientation
F setattributesinlist	F setpenalty
F setboth	F setpost
F setbottom	F setpre
F setbottomdelimiter	F setprev
F setbox	F setprime
F setchar	F setproperty
F setchardict	F setreplace
F setchoice	F setrightdelimiter
F setclass	F setruledimensions
F setcontrol	F setscale
F setcurrenttail	F setscales
F setdata	F setscript
F setdegree	F setscripts
F setdelimiter	F setshift
F setdenominator	F setslant
F setdepth	F setsnapped
F setdirection	F setspeciallist
F setdisc	F setsplit
F setdiscpart	F setstate
F setexcept	F setsub

F setsubpre	F vpack
F setsubtype	F write
F setsup	F xscaled
F setsuppre	F yscaled
F settop	F effectiveglue
F settopdelimiter	F endofmath
F settotal	F family_font
F setweight	F fields
F setwhd	F findattribute
F setwidth	F flattendiscretionaries
F show	F flushlist
F size	F flushnode
F slide	F free
F softenhyphens	F getattribute
F startofpar	F getcachestate
F subtypes	F getfield
F tail	F getfielderror
F todirect	F getglue
F tonode	F getnodeerrorvalues
F tostring	F getpropertiestable
F tovaliddirect	F getproperty
F traverse	F gluetostring
F traversechar	F hasattribute
F traversecontent	F hasfield
F traverseglyph	F hasglyph
F traverseid	F hpack
F traverseitalic	F hyphenating
F traverseleader	F id
F traverselist	F insertafter
F traversepossible	F insertbefore
F type	F instock
F types	F intracking
F unprotectglyph	F inuse
F unprotectglyphs	F isnode
F unsetattribute	F iszeroglue
F unsetattributes	F kerning
F updatefirstandbotmark	F lastnode
F updatefirstmarks	F length
F updatemarks	F ligaturing
F updatetopmarks	F makeextensible
F usedlist	F mlisttohlist
F usesfont	F new
F vbalance	F protectglyph
F verticalbreak	F protectglyphs

F protrusionskippable	F dimensions
F rangedimensions	F direct
F remove	F dispose
F serialized	F found
F setattribute	F prune
F setfield	F reset
F setfielderror	F restore
F setglue	F save
F setproperty	F savenode
F show	T builders
F size	D choicecodes
F slide	F concat
F subtypes	F copy
F tail	F copy_node
F todirect	F copylist
F tonode	F countall
F tostring	F currentattributes
F traverse	F delete
F traverseid	T destinations
F type	N attribute
F types	T done
F unprotectglyph	F handler
F unprotectglyphs	T stack
F unsetattribute	D dircodes
F usedlist	D directioncodes
F usesfont	D directionvalues
F vpack	D dirvalues
F write	D disccodes
T nodes	D discretionarycodes
D accentcodes	D fencecodes
T adaptive	F fields
F handlehorizontal	T fieldtypes
F handlevertical	D fillcodes
T methods	D fillvalues
F set	F firstdirinbox
F aligned	F flush
F append	F flushlist
F apply	F flushnode
F applyvisuals	D fractioncodes
F astable	F fullhpack
F basepoints	F getattr
D boundarycodes	F getattribute
T boxes	F getboth
F count	F getbox

F getchar	F hasattribute
F getfield	F hasfield
F getfont	F hpack
F getid	F idsandsubtypes
F getleader	F idstostring
F getlist	T injections
F getnext	F copy
F getprev	F getligaindex
F getproperty	F getthreshold
F getsubtype	F handler
D gluecodes	F installgetspaceboth
D glyphcodes	F installnewkern
T handlers	F isspace
F adjusters	F keepcounts
F aligncharacter	F reset
F backgrounds	F resetcounts
F backgroundspage	F setcursive
F backgroundsvbox	F setkern
F characters	F setligaindex
F checkglyphs	F setmark
F checkparcounter	F setmove
F cleanupbox	F setposition
F cleanuppage	F setspacekerns
F export	F insertafter
F finalizebox	F insertbefore
F finalizelist	F insertlistafter
F flatten	F installattributehandler
F flattenline	F is_display_math
T linebreakchecks	F isdirect
F mathalignrelocate	F isnode
F mathmatrixornaments	F isnut
F mathmatrixrules	D kerncodes
F migrate	F leftmarginwidth
F protectglyphs	T linefillers
F recolor	F filler
F show	F handler
F showhyphenation	F set
F showpreamble	T lines
F stripping	T boxed
F tabulateskip	F addlinenumbers
F textbackgrounds	F register
F unprotectglyphs	F setup
F visualizehyphenation	D data
F wipe	F finalize

F number

F link

F linked

F list

D listcodes

F listtoutf

D literalvalues

F locate

D markcodes

T markers

  F get

  F set

D mathcodes

D mathvalues

F maxboxwidth

T migrations

  F setinserts

  F setmarks

F new

D noadcodes

D nodecodes

F nopts

T nuts

  F addmargins

  F addxoffset

  F addxymargins

  F addyoffset

  F append

  F appendaftertail

  F apply

  F applyvisuals

  F beginofmath

  F checkdiscretionaries

  F checkdiscretionary

  F checkslide

  F collapsing

  T colors

    F set

  T components

    F copynocomponents

    F copyonlyglyphs

    F count

    F flush

    F get

F set

F concat

F copy

F copy_properties

F copylist

F copynode

F copyonly

F copyvisual

F count

F countall

F currentattributes

F delete

F dimensions

F dirdimensions

F effectiveglue

F endofmath

F exchange

F findattribute

F findattributerange

F findnode

F firstchar

F firstglyph

F firstglyphnode

F firstitalicglyph

F flattendiscretionaries

F flattenleaders

F flush

F flushlist

F flushnode

F free

F freeze

F fullhpack

F getanchors

F getattr

F getattribute

F getattributelist

F getattributes

F getattrlist

F getattrs

F getboth

F getbottom

F getbottomdelimiter

F getbox

F getboxglue

F getchar

F getchardict

F getcharspec

F getchoice

F getclass

F getcomponents

F getcornerkerns

F getdata

F getdegree

F getdelimiter

F getdenominator

F getdepth

F getdirection

F getdisc

F getdiscpart

F getdiscretionary

F getexcept

F getexpansion

F getfam

F getfield

F getfirstdirectioninlist

F getfont

F getfontcheck

F getgeometry

F getglue

F getglyphdata

F getglyphdimensions

F getheight

F getid

F getidsubtype

F getidsubtypenext

F getindex

F getinputfields

F getkern

F getkerndimension

F getlang

F getlanguage

F getleader

F getleftdelimiter

F getlist

F getlistdimensions

F getlocalparboxstate

F getmiddle

F getmiddledelimiter

F getmvllist

F getnaturalwhd

F getnext

F getnormalizedline

F getnucleus

F getnumerator

F getoffsets

F getoptions

F getorientation

F getparstate

F getpenalty

F getpost

F getpre

F getprev

F getprime

F getprop

F getreplace

F getrightdelimiter

F getruledata

F getruledimensions

F getscale

F getscales

F getscript

F getscripts

F getshift

F getshort

F getslant

F getspeciallist

F getstate

F getsub

F getsubpre

F getsubtype

F getsup

F getsuppre

F getsurround

F gettop

F gettopdelimiter

F gettotal

F getusedattributes

F getvalue

F getweight

F getwhd

F getwidth

F getwordrange

F getxscale	F linked
F getxyscales	F locate
F getyscale	F migrate
F gluetostring	F migratebox
F hasattribute	F mlisttohlist
F hasdimensions	F naturalhsize
F hasdiscoption	F naturalwidth
F hasfield	N nestedtracedslide
F hasgeometry	F new
F hasglyph	F newcontinuationatom
F hasglyphoption	F newfontcheck
F hasidsubtype	F newmathglyph
F hpack	F openup
F hyphenating	F patchattributes
F ignoremathskip	F patchparshape
F insertafter	T pool
F insertbefore	F accent
F insertlistafter	F baselineskip
F is_display_math	F boundary
F isboth	F boxrule
F ischar	F choice
F ischarcheck	F cleanup
F isdirect	F delim
F isdone	F delimiter
F isglyph	F direction
F isitalicglyph	F directliteral
F isnext	F disc
F isnextchar	F emptyrule
F isnextcharcheck	F fence
F isnextglyph	F fontkern
F isnode	F fraction
F isnut	F glue
F isprev	F gluespec
F isprevchar	F glyph
F isprevcharcheck	F hlist
F isprevglyph	F imagerule
F issimilarglyph	F indentskip
F issnapped	F italiccorrection
F iszeroglue	F italickern
F kerning	F kern
F lastnode	F latelua
F length	F leader
F ligaturing	F lefthangskip
F link	F leftmarginkern

F leftskip
F lineskip
F literal
F luaboundary
F mathchar
F mathtextchar
F negatedglue
F noad
F originliteral
F outlinerule
F pageliteral
F penalizedglue
F penalizedspace
F penalty
F radical
F rawliteral
F register
F restore
F righthangskip
F rightmarginkern
F rightskip
F rule
F save
F savepos
F setmatrix
F setstate
F shrink
F spacefontkern
F spacingrule
F startrotation
F startscaling
F stock
F stoprotation
F stopscaling
F stretch
F strutrule
F subbox
F submlist
F temp
F usage
F userdefined
T userids
F usernode
F userrule

  F virtualrule
  F vlist
  F wordboundary
F prepend
F prependbeforehead
F processranges
F processwords
F protectglyph
F protectglyphs
F protectglyphsbase
F protectglyphsnone
F protrusionskippable
F rangedimensions
F rawprop
F reference
F rehpack
F remove
F removefromlist
F repack
F repackhlist
F replace
F reverse
T rules
  T ruleactions
    F box
    F draw
    F fill
    F mp
    F stroke
  F userrule
F serialized
F setanchors
F setattr
F setattribute
F setattributelist
F setattributes
F setattributesinlist
F setattrlist
F setattrs
F setattrsinlist
F setboth
F setbottom
F setbox
F setboxglue

F setchar	F setprime
F setchardict	F setprop
F setchoice	F setreplace
F setclass	F setrightdelimiter
F setcomponents	F setruledata
F setdata	F setruledimensions
F setdegree	F setscale
F setdelimiter	F setscales
F setdenominator	F setscript
F setdepth	F setscripts
F setdirection	F setshift
F setdisc	F setslant
F setdiscpart	F setsnapped
F setdiscretionary	F setspeciallist
F setexcept	F setsplit
F setexpansion	F setstate
F setfam	F setsub
F setfield	F setsubpre
F setfont	F setsubtype
F setfontcheck	F setsup
F setgeometry	F setsuppre
F setglue	F setsurround
F setglyphdata	F settop
F setheight	F setvalue
F setinputfields	F setvisual
F setkern	F setvisuals
F setlang	F setweight
F setlanguage	F setwhd
F setleader	F setwidth
F setleftdelimiter	F show
F setlink	F slide
F setlist	F softenhyphens
F setmiddledelimiter	F somepenalty
F setnext	F somespace
F setnucleus	F splitbox
F setnumerator	F startofpar
F setoffsets	F striprange
F setoptions	F tail
F setorientation	F takeattr
F setparproperty	F takebox
F setpenalty	F takelist
F setpost	F theprop
F setpre	F tonode
F setprev	F tonodes

F tonut	F tohpack
F tosequence	F tonodes
F tostring	F tovbox
F tracedslide	F tovpack
F traverse	F unprotectglyph
F traversechar	F unprotectglyphs
F traversecontent	F unsetattribute
F traverseglyph	F unsetattributes
F traverseid	F untracedslide
F traverseitalic	F updatefirstandbotmark
F traverseleader	F updatefirstmarks
F traverselist	F updatemarks
F traversepossible	F updatetopmarks
T traversers	F usedlist
F alignrecord	F usesfont
F boundary	F verticalbreak
F char	F vianodes
F content	F vianuts
F dir	F vpack
F disc	F write
F glue	F xscaled
F glyph	F yscaled
F hlist	F packlist
F leader	D parcodes
F list	D penaltycodes
F mark	T plugindata
F next	F finalizer
F node	F initializer
F penalty	S name
F possible	F processor
F rule	F points
F unset	T pool
F vlist	F baselineskip
F whatsit	F cleanup
T treversers	F directliteral
F char	F glyph
F content	F hlist
F glyph	F latelua
F leader	F leader
F list	F lineskip
F node	F literal
F possible	F originliteral
T typesetters	F register
F tohbox	F restore

F save

F savepos

F setmatrix

F stock

F usage

F usernode

F vlist

F prepend

F print

T processors

  F trace_glyph_run_a

  F trace_glyph_run_b

T properties

  T data

F pts

D radicalcodes

T references

  N attribute

  T done

  F handler

  T stack

F rehpack

F remove

F repackhlist

F replace

F report

F rightmarginwidth

D rulecodes

T rules

  F handler

  F process

  F set

  F userrule

F serialize

F serializebox

F serialized

F setattr

F setattribute

F setattrlist

F setboth

F setbox

F setboxtonaturalwd

F setchar

F setfield

F setfont

F setleader

F setlink

F setlist

F setnext

F setprev

F setproperty

T shadows

  F handler

  F set

T shifts

  F handler

  F set

F showboxes

F showlist

F showsimplelist

D skipcodes

T snapshots

  F getsamples

  F resetsamples

  F takesample

F somepenalty

F somespace

T specialskipcodes

F splitbox

F startofpar

F stripdiscretionaries

T stripping

  T glyphs

  F set

D subtypes

F tail

F takeattr

F takebox

T tasks

  F actions

  F appendaction

  F disableaction

  F disablegroup

  F enableaction

  F enablegroup

  F freeze

  F freezegroup

  F new

```
  F prependaction              T steppers
  F removeaction                 F check
  F replaceaction                F codes
  F restart                      F features
  F setaction                    F font
  F showactions                  F glyphs
  F table                        F message
F tobasepoints                   F messages
F tocentimeters                  F nofsteps
F tociceros                      F register
F todidots                       F reset
F todimen                        F start
F toinches                       F stop
F tomillimeters                F stop
F tonode                       T transparencies
F tonodes                        F reset
F tonut                          F set
F topicas                        F setlist
F topoints                     F traverse
F toscaledpoints               F traverseid
F tosequence                   T typesetters
F tostring                       F hbox
F totable                        F hpack
F totree                         F tohbox
F toutf                          F tohpack
T tracers                        F tonodes
  T colors                       F tovbox
    F reset                      F tovpack
    F set                        F vpack
    F setlist                  F unsetattribute
  F directions                 F upcomingproperties
  F fontchar                   F usedlist
  T frequencies                F vianodes
    F register                 F vianuts
  T pool                       F visualizebox
    T nodes                    T visualizers
      F rule                     F attribute
    T nuts                       T attributes
      F rule                     F box
  F resetproperties              F definelayer
  F rule                         F enable
  F setlist                      T filters
  F setproperties                  N continuation
  F start                          N hglue
```

N hkern	N space
N hpenalty	N strut
N pglue	N toddler
N sglue	N user
N short	N vbox
N toddler	N vglue
N vglue	N vkern
N vkern	N vpenalty
N vpenalty	N vtop
F getusedfont	N whatsit
F handler	F register
F markfonts	F registercache
T modes	F setfont
N boundary	F setlayer
N depth	F setruledglyph
N dir	F setvisual
N discretionary	F vpack
N expansion	D whatsitcodes
N fontkern	F write
N glue	T number
N glyph	F %
N hbox	F basepoints
N hglue	F bytetodecimal
N hkern	F compactfloat
N hpenalty	F decimaltobyte
N insert	D dimenfactors
N italic	F formatted
N kern	F formattedfloat
N line	F fractiontobyte
N marginkern	F idiv
N mark	N maxdimen
N math	F nopts
N mathglue	F nubasepoints
N mathkern	F nupoints
N origin	F percent
N par	F points
N penalty	F pts
N pglue	F signed
N sglue	F sparseexponent
N short	F splitdimen
N simple	F to16dot16
N simplehbox	F tobasepoints
N simplevbox	F tobitstring
N simplevtop	F tocentimeters

F tociceros	F execute
F tocontext	F getnoisetypes
F todidots	F initialize
F todimen	T hb
F toediths	F getshapers
F toevenhex	F getversion
F toinches	F initialize
F tomillimeters	F loadfont
F tonumberf	F shapestring
F tonumberg	T imagemagick
F topicas	F execute
F topoints	F initialize
F toscaled	T kpse
F toscaledpoints	F expand_braces
F totoves	F expand_path
F valid	F expand_var
T objects	F find_file
T data	F find_files
F dimensions	F get_file_types
F found	F initialize
N n	F readable_file
F page	F set_program_name
F reference	F var_value
F register	T library
F restore	F load
T optional	T loaded
T curl	T lz4
F escape	F compress
F fetch	F decompresssize
F getversion	F framecompress
F initialize	F framedecompress
F unescape	F initialize
T foreign	T lzma
F abivalues	F compress
F getbuffer	F decompress
F initialize	F initialize
F load	T lzo
F newbuffer	F compress
F totable	F decompresssize
F types	F initialize
T ghostscript	T mujs
F execute	F dofile
F initialize	F execute
T graphicsmagick	F initialize

F reset
F setclosefile
F setconsole
F setfindfile
F setopenfile
F setreadfile
F setseekfile
T mysql
  F close
  F execute
  F getmessage
  F initialize
  F open
T openssl
  F getversion
  F initialize
  F sign
  F verify
T postgress
  F close
  F execute
  F getmessage
  F initialize
  F open
T sqlite
  F close
  F execute
  F getmessage
  F initialize
  F open
T zint
  F execute
  F initialize
T zstd
  F compress
  F decompress
  F initialize
F optionalrequire
T os
  F __getenv__
  F __setenv__
  S binsuffix
  T binsuffixes
  N bits

F clock
F converttime
F date
F difftime
F enableansi
D env
F execute
F exit
F fulltime
F getcodepage
F getenv
F getnamevalues
F gettimeofday
F gettypevalues
F getunamefields
F isleapyear
F launch
S libsuffix
F localtime
S name
S newline
F nofdays
F now
F pipeto
S platform
F remove
F rename
F resultof
F runtime
T selfarg
S selfbin
S selfcore
S selfdir
S selflink
S selfname
S selfpath
F serialwrite
F setenv
F setexitcode
F setlocale
F sleep
F startuptime
F time
F timezone

```
  F tmpname                            B trace
  F today                              B traceused
  S type                               F unload
  F uname                            F libpaths
  F uuid                             T loaded
  F validdate                          B anch-loc
  F weekday                            B anch-pgr
  F where                              B anch-snc
  F which                              B back-exp
T package                              B back-exp-imp-fnt
  S config                             B back-exp-imp-mth
  S cpath                              B back-exp-imp-ref
  F extralibpath                       B back-exp-imp-tag
  F extralibpaths                      B back-imp-lua
  F extraluapath                       B back-imp-mps
  F extraluapaths                      B back-imp-pdf
  T helpers                            B back-imp-pdp
    T builtin                          B back-inc
      F path specification             B blob-ini
      F preload table                  B buff-imp-default
    F cleanpath                        B buff-imp-escaped
    F loaded                           B buff-imp-lua
    F loadedaslib                      B buff-imp-mp
    F loadedbyformat                   B buff-imp-nested
    F loadedbyname                     B buff-imp-parsed-xml
    F loadedbypath                     B buff-imp-tex
    F lualibfile                       B buff-imp-xml
    T methods                          B buff-ini
      F all in one fallback            B buff-par
      F already loaded                 B buff-ver
      F cpath specification            B char-enc
      F lib extra list                 B chem-ini
      F lib variable format            B chem-str
      F lua extra list                 B cldf-com
      F lua variable format            B cldf-ver
      F not loaded                     B colo-icc
      F path specification             B colo-ini
      F preload table                  B cont-run
      F qualified path                 B core-con
      F reset loaded                   B core-ctx
    F registerpath                     B core-dat
    F report                           B core-sys
    T sequence                       T curl
    F showused                           F escape
```

F	fetch		B	font-ini
F	getversion		B	font-lig
S	libfile		B	font-log
S	libpath		B	font-lua
F	unescape		B	font-map
B	driv-shp		B	font-mpf
B	file-mod		B	font-mps
B	file-syn		B	font-nod
B	font-afk		B	font-ogr
B	font-agl		B	font-one
B	font-aux		B	font-onr
B	font-cff		B	font-osd
B	font-chk		B	font-ota
B	font-cid		B	font-otc
B	font-col		B	font-otd
B	font-con		B	font-oth
B	font-ctx		B	font-oti
B	font-def		B	font-otj
B	font-dsp		B	font-otl
B	font-enc		B	font-oto
B	font-enh		B	font-otr
B	font-fbk		B	font-ots
B	font-fmp		B	font-ott
B	font-hsh		B	font-oup
B	font-imp-checks		B	font-pat
B	font-imp-combining		B	font-prv
B	font-imp-compound		B	font-san
B	font-imp-digits		B	font-sel
B	font-imp-dimensions		B	font-shp
B	font-imp-effects		B	font-sol
B	font-imp-italics		B	font-syn
B	font-imp-ligatures		B	font-tfm
B	font-imp-math		B	font-tpk
B	font-imp-notused		B	font-trt
B	font-imp-properties		B	font-ttf
B	font-imp-quality		B	font-txt
B	font-imp-reorder		B	font-vfc
B	font-imp-scripts		B	font-vir
B	font-imp-spacekerns		B	good-ctx
B	font-imp-tex		B	good-gen
B	font-imp-text		B	good-ini
B	font-imp-tracing		B	good-mth
B	font-imp-tweaks		B	grph-bmp
B	font-imp-unicode		B	grph-con

```
B grph-epd                          B lpdf-mis
B grph-fil                          B lpdf-ren
B grph-img                          B lpdf-rul
B grph-inc                          B lpdf-sig
B grph-pat                          B lpdf-tag
B grph-raw                          B lpdf-u3d
B grph-rul                          B lpdf-wid
B grph-trf                          B lpdf-xmp
B grph-u3d                          T ltn12
B java-ini                            N BLOCKSIZE
T json                                T filter
  F load                                F chain
  F tojson                              F cycle
  F tolua                             T pump
  F tostring                            F all
B lang-cnt                              F step
B lang-def                            F report
B lang-dis                            T sink
B lang-hup                              F chain
B lang-hyp                              F error
B lang-ini                              F file
B lang-lab                              F null
B lang-rep                              F simplify
B lang-tra                              F table
B lang-txt                            T source
B lang-url                              F cat
B lang-wrd                              F chain
B libs-imp-curl                         F empty
B libs-imp-ghostscript                  F error
B libs-imp-graphicsmagick               F file
B libs-ini                              F rewind
B lpdf-ano                              F simplify
B lpdf-col                              F string
B lpdf-epa                          B lxml-css
B lpdf-epd                          B lxml-dir
B lpdf-fix                          B lxml-ent
B lpdf-fix-imp-contents             B lxml-ini
B lpdf-fix-imp-fonts                B lxml-mms
B lpdf-fld                          B lxml-sor
B lpdf-fmt                          B lxml-tex
B lpdf-grp                          B math-act
B lpdf-img                          B math-ali
B lpdf-ini                          B math-dim
B lpdf-lmt                          B math-ext
```

B math-fbk	B node-fnt
B math-fnt	B node-par
B math-frc	B node-ref
B math-ini	B node-rul
B math-map	B node-tra
B math-mps	B node-typ
B math-noa	B pack-obj
B math-pre	B pack-ori
B math-rad	B pack-rul
B math-ren	B page-blk
B math-spa	B page-cst
B math-tag	B page-flt
B math-ttv	B page-ini
B math-txt	B page-inj
B math-vfu	B page-ins
B meta-blb	B page-lin
B meta-fnt	B page-mix
B meta-fun	B page-otr
B meta-imp-txt	B page-pst
B meta-ini	B page-sel
B meta-lua	B page-str
B meta-nod	T pdfdecode
B meta-pdf	T pdfe
B meta-tex	F arraytotable
B mlib-ctx	F close
B mlib-fio	F closestream
B mlib-int	F dictionarytotable
B mlib-lmp	F getarray
B mlib-lmt	F getboolean
B mlib-lua	F getbox
B mlib-mat	F getcatalog
B mlib-mpf	F getdictionary
B mlib-msh	F getencodingvalues
B mlib-pdf	F getfieldtypes
B mlib-pos	F getfromarray
B mlib-pps	F getfromdictionary
B mlib-ptr	F getfromobject
B mlib-ran	F getfromreference
B mlib-run	F getfromstream
B mlib-scn	F getinfo
B mlib-snc	F getinteger
B mlib-svg	F getmemoryusage
B node-ali	F getname
B node-bck	F getnofobjects

F getnofpages	F __div
F getnumber	F __eq
F getobjectrange	F __le
F getpage	F __lt
F getpages	F __mul
F getpermissions	S __name
F getsize	F __pow
F getstatus	F __shl
F getstatusvalues	F __shr
F getstream	F __sub
F getstring	F __tostring
F gettrailer	F __unm
F getversion	F abs
F new	F acos
F open	F asin
F openfile	F atan
F openstream	F band
F pagestotable	F bor
F readfromstream	F bxor
F readwholestream	F ceil
F type	F conj
F unencrypt	F copy
B phys-dim	F cos
T pngdecode	F exp
F applyfilter	F exp2
F expand	F expand
F frompalette	F floor
F interlace	F frombyte
F makemask	F fromchar
F palettemask	F fromposit
F reduce	F integer
F setexperiment	F log
F splitmask	F log10
F tocmyk	F log1p
F togray	F log2
F tomask	F logb
F transparentmask	F max
T posit	F min
F NaN	F modf
F NaR	F new
F __add	F pow
F __band	F rotate
F __bor	F round
F __bxor	F rounded

F shift	B scrn-fld
F sin	B scrn-hlp
F sqrt	B scrn-ini
F tan	B scrn-pag
F tobyte	B scrn-ref
F tochar	B scrn-wid
F tonumber	B scrp-cjk
F toposit	B scrp-eth
F tostring	B scrp-ini
T potrace	B scrp-tha
F checked	B scrp-tib
F concat	T serial
F contourplot	F __gc
F convert	S __name
F count	F __tostring
F flush	F close
F free	F open
F fromfile	F send
F getbitmap	F tostring
F getnewfields	F write
F getpolicyvalues	T sha2
F getprocessfields	F HASH256
F new	F HASH384
F process	F HASH512
F setbitmap	F HEX256
F stripped	F HEX384
F totable	F HEX512
F trace	F digest256
B publ-aut	F digest384
B publ-dat	F digest512
B publ-fnd	F hash256
B publ-inc	F hash384
B publ-ini	F hash512
B publ-jrn	F hex256
B publ-oth	F hex384
B publ-reg	F hex512
B publ-sor	F sum256
B publ-tra	F sum384
B publ-usr	F sum512
T qrcodegen	T sio
F bitmap	F read2dot14
F generate	F readbytes
B regi-ini	F readbytetable
B scrn-but	F readcardinal1

```
S if-range                          S vary
S if-unmodified-since               S via
S in-reply-to                       S warning
S keywords                          S will-retry-until
S last-attempt-date                 S www-authenticate
S last-modified                     S x-mailer
S location                          F lower
S max-forwards                      F normalize
S message-id                      T http
S mime-version                      N TIMEOUT
S original-envelope-id              S USERAGENT
S original-recipient                F genericform
S pragma                            F open
S proxy-authenticate                F request
S proxy-authorization             F newtry
S range                           F protect
S received                        F report
S received-from-mta               F select
S references                      F sink
S referer                         T sinkt
S remote-mta                        F close-when-done
S reply-to                          F default
S reporting-mta                     F http-chunked
S resent-bcc                        F keep-open
S resent-cc                       F skip
S resent-date                     F sleep
S resent-from                     F source
S resent-message-id               T sourcet
S resent-reply-to                   F by-length
S resent-sender                     F default
S resent-to                         F http-chunked
S retry-after                       F until-closed
S return-path                     F tcp
S sender                          F tcp4
S server                          F tcp6
S smtp-remote-recipient           T tp
S status                            N TIMEOUT
S subject                           F connect
S te                              F try
S to                              T url
S trailer                           F absolute
S transfer-encoding                 F build
S upgrade                           F build_path
S user-agent                        F escape
```

F bytetable

F char

F characterpairs

F characters

F checkedsplit

F chrtointeger

F collapsespaces

F containsws

F count

F dectointeger

F dump

F escapedpattern

F escapedquotes

F f6

F find

F format

F formatter

D formatters

F fullstrip

F gmatch

F gsub

T hashes

  T X00

  T spaces

F hextocharacters

F hextointeger

F is_boolean

F is_empty

F itself

F len

F limit

F linetable

F longtostring

F lower

F match

F nospaces

F octtointeger

F optionalquoted

F pack

F packrowscolumns

F packsize

F quote

F quoted

F rep

F replacenewlines

F reverse

F split

F splitintolines

F splitlines

F splitup

F strip

F sub

F texhashed

F texnewlines

F tformat

F toHEX

F toboolean

F tobytes

F tocontext

F todec

F todimen

F tohex

F tonodes

F topattern

F totable

F tounicode16

F toutf

F toutf16

F toutf32

F toutf8

F tracedchar

F unescapedquotes

F unpack

F unquote

F unquoted

F upper

F utf16toutf8

F utfcharacter

F utfcharacters

F utfcharactertable

F utflength

F utfpadd

F utfpadding

F utftabletostring

F utfvalue

F utfvalues

F utfvaluetable

F valid

F wordsplitter	F print
B symb-emj	F remove
B symb-ini	F reverse
B syst-cmp	F reversed
B tabl-ali	F save
B tabl-ntb	F sequenced
B tabl-tbl	F serialize
B tabl-xtb	F setmetatablecall
T table	F setmetatableindex
F append	F setmetatableindices
F are_equal	F setmetatablenewindex
F combine	F sort
F compact	F sorted
F concat	F sortedhash
F contains	F sortedhashkeys
F copy	F sortedhashonly
F count	F sortedindexonly
F create	F sortedkeys
F derive	F sortedpairs
F deserialize	F sparse
F fastcopy	F strip
F fastserialize	F sub
F filtered	F swapped
F flattened	F tocontext
F fromhash	F tocsv
F getn	F tofile
F has_one_entry	F tohandle
F hashed	F tohash
F identical	F toxml
F imerge	F unique
F imerged	F unpack
F insert	B task-ini
F is_empty	T tex
F is_simple_table	T amcode
F keys	T attribute
F load	F attributetracking
F loweredkeys	D automigrationcodes
F makeweak	D autoparagraphcodes
F merge	F badness
F merged	D badnessmodecodes
F mirrored	F balance
F move	D balancecallbackcodes
F pack	T boundaries
F prepend	D names

D numbers
F system
T box
D boxoptioncodes
T boxresources
  F getbox
  F getdimensions
  F save
  F use
D breakcodes
D buildcodes
T catcode
T cccode
D charactercontrolcodes
D charactertagcodes
F chardef
D classoptioncodes
T codes
D conditionals
D constants
T count
F cprint
N ctdcatcodes
N ctxcatcodes
F definefont
T delcode
T dimen
F dimensiondef
D directioncodes
D directives
D discoptioncodes
D discpartcodes
F dontcomplain
D doublescriptoptioncodes
F enableprimitives
F error
F expandasvalue
D experiments
F extraprimitives
F fatalerror
D fillcodes
D flagcodes
F fontidentifier
F fontname

F forcehmode
F forceinputstatefile
F forceinputstateline
F fprint
D frozenparcodes
F get
F getadjustoptionvalues
F getalignmentcontextvalues
F getamcode
F getappendadjustcontextvalues
F getappendmigratecontextvalues
F getattribute
F getautomigrationvalues
F getautoparagraphvalues
F getbadnessmodevalues
F getbalancecallbackvalues
F getbalanceparameterfields
F getbalanceresultfields
F getbalancestepoptionvalues
F getbox
F getboxdir
F getboxoptionvalues
F getboxresourcebox
F getboxresourcedimensions
F getbreakcontextvalues
F getbuildcontextvalues
F getcardinalvalue
F getcatcode
F getcccode
F getcharactercontrolvalues
F getcharactertagvalues
F getcount
F getcurrentmvl
F getdelayedgluelocationvalues
F getdelayedgluetargetvalues
F getdelcode
F getdelcodes
F getdimen
F getdimensionvalue
F getdirectionvalues
F getdiscoptionvalues
F getdiscpartvalues
F getdoublescriptoptionvalues
F getemptyparagraphmodevalues

F geterrorrecoverymodevalues

F geterrorvalues

F getfillvalues

F getflagvalues

F getfloat

F getfontdimension

F getfontoffamily

F getfrozenparvalues

F getglue

F getglueoptionvalues

F getglyphdata

F getglyphdiscvalues

F getglyphoptionvalues

F getglyphprotectionvalues

F getglyphscales

F getglyphscript

F getglyphstate

F getgroupvalues

F gethccode

F gethelptext

F gethmcode

F gethyphenationvalues

F getiftypes

F getinputstatefile

F getinputstateline

F getinputstatemode

F getinsertcategoryvalues

F getinsertcontent

F getinsertdepth

F getinsertdistance

F getinsertheight

F getinsertlimit

F getinsertmaxplaced

F getinsertmultiplier

F getinsertoptionvalues

F getinsertsplitvalues

F getinsertwidth

F getintegervalue

F getinteraction

F getinteractionmodes

F getiovalues

F getkerneloptionvalues

F getkernoptionvalues

F getlargestusedmark

F getlccode

F getlinebreakparameterfields

F getlinebreakresultfields

F getlinebreakstatevalues

F getlinedir

F getlist

F getlistanchorvalues

F getlistfields

F getlistgeometryvalues

F getlistsignvalues

F getlocalbox

F getlocalboxlocations

F getlocallevel

F getmark

F getmarknames

F getmath

F getmathclassoptionvalues

F getmathcode

F getmathcodes

F getmathcontrolvalues

F getmathdir

F getmathgluevalues

F getmathoptionvalues

F getmathparametervalues

F getmathscriptordervalues

F getmathscriptsmodevalues

F getmathstylenamevalues

F getmathstylevalues

F getmathstylevariant

F getmathsurroundvalues

F getmathvariantpresets

F getmathvariantvalues

F getmeasure

F getmissingcharactervalues

F getmode

F getmodevalues

F getmuglue

F getmuskip

F getmvloptionvalues

F getnest

F getnestfields

F getnestlevel

F getnoadoptionvalues

F getnormalizelinevalues

F	getnormalizeparvalues
F	getnospacesmodevalues
F	getoutputactive
F	getpacktypevalues
F	getpagecontextvalues
F	getpagestate
F	getpagestatevalues
F	getparagraphfillmodevalues
F	getparagraphoptionvalues
F	getparametermodevalues
F	getparcontextvalues
F	getpardataspecifications
F	getpardir
F	getparmodevalues
F	getparstate
F	getparstatefields
F	getpartriggervalues
F	getpenaltyoptionvalues
F	getpositvalue
F	getprepoststatevalues
F	getprimitivelegacies
F	getprimitiveorigins
F	getprotrusionboundaryvalues
F	getregisterindex
F	getruleoptionvalues
F	getrunstate
F	getrunstatevalues
F	getsfcode
F	getshapingpenaltiesvalues
F	getskip
F	getsnappingvalues
F	getspacefactorvalues
F	getspaceskipvalues
F	getspcode
F	getspecialmathclassvalues
F	getspecification
F	getspecificationoptionvalues
F	gettextcontrolvalues
F	gettextdir
F	gettoks
F	getuccode
F	getuleaderlocationvalues
F	getunitclassvalues
F	getusedmarks

F	getvsplitcontextvalues
T	glue
D	glueoptioncodes
D	glyphdisccodes
D	glyphoptioncodes
D	groupcodes
F	hashtokens
T	hccode
T	hmcode
N	hshcatcodes
D	hyphenationcodes
D	ifs
N	inicatcodes
D	insertcategorycodes
D	insertoptioncodes
D	insertsplitcodes
F	integerdef
D	interactioncodes
F	isattribute
F	isbox
F	iscount
F	isdefined
F	isdimen
F	isfloat
F	isglue
F	ismuglue
F	ismuskip
F	isprintable
F	isskip
F	istoks
F	lastnodetype
T	lccode
F	linebreak
D	linebreakstatecodes
D	listanchorcodes
D	listgeometrycodes
T	lists
D	listsigncodes
N	luacatcodes
T	magicconstants
S	activecharacternamespace
N	allfitnessvalues
N	assumedmathcontrol
N	awfulbad

N decentcriterion
N defaultcatcodetable
N defaultcharactercontrol
N defaultdeadcycles
N defaulteqnogapstep
N defaulthangafter
N defaultoutputbox
N defaultpredisplaygap
N defaultrule
N defaultspacefactor
N defaulttolerance
N deplorable
N ejectpenalty
N ignoredepth
N infinitebad
N infinitepenalty
N infinity
N largewidthexcess
N loosecriterion
N mathallclass
N mathbeginclass
N mathdefaultpenalty
N mathendclass
N mathfirstuserclass
N mathlastuserclass
N maxattributeregisterindex
N maxboxregisterindex
N maxbytecodeindex
N maxcalculatedbadness
N maxcardinal
N maxcharactercode
N maxdatavalue
N maxdimen
N maxdimenregisterindex
N maxdimension
N maxdimensionregisterindex
N maxendlinecharacter
N maxfloatregisterindex
N maxfontadjustshrinkfactor
N maxfontadjuststep
N maxfontadjuststretchfactor
N maxfunctionreference
N maxglueregisterindex
N maxhalfvalue

N maxhalfword
N maxinteger
N maxintegerregisterindex
N maxintregisterindex
N maxlimitedscale
N maxmarkindex
N maxmathclasscode
N maxmathfamilyindex
N maxmathscalingfactor
N maxmathstylescale
N maxmuglueregisterindex
N maxmvlindex
N maxnewlinecharacter
N maxnofbytecodes
N maxnofcatcodetables
N maxnoffitnessvalues
N maxnoffonts
N maxnoflanguages
N maxnofmarks
N maxnofmathfamilies
N maxquarterword
N maxscalefactor
N maxsizeofword
N maxspacefactor
N maxtoksregisterindex
N maxtwinlength
N mincardinal
N mindatavalue
N mindimen
N mindimension
N minhalfword
N mininfinity
N mininteger
N minmvlindex
N minnoffitnessvalues
N minquarterword
N minscalefactor
N minspacefactor
N nocatcodetable
N null
N nullflag
N nullfont
N onebp
N presetrulethickness

N runningrule	D parcontextcodes
N smallstretchability	D partriggercodes
N specialspacefactor	D penaltyoptioncodes
N texeqtbsize	F poplocal
N texhashprime	F popsavelevel
N texhashsize	T posit
N texmemorymode	F positdef
N two	F preparelinebreak
N undefinedmathparameter	F primitives
N unity	F print
N unusedattributevalue	D protrusionboundarycodes
N unusedmathfamily	N prtcatcodes
N unusedmathstyle	F pushlocal
N unusedscriptvalue	F pushsavelevel
N unusedstatevalue	F quitlocal
N zeroglue	F quittoks
F mathchardef	F resetparagraph
T mathcode	N rlncatcodes
D mathcontrolcodes	F romannumeral
D mathoptioncodes	F round
D mathparametercodes	D ruleoptioncodes
D mathscriptordercodes	F runlocal
D mathscriptsmodecodes	D runstatecodes
T modelevels	F runstring
N horizontal	F runtoks
N math	F saveboxresource
N unset	F scale
N vertical	F scantoks
D modes	F set
F mprint	F setamcode
T muglue	F setattribute
T muskip	F setbalanceshape
D mvloptioncodes	F setbox
T nest	F setboxdir
N nilcatcodes	F setcardinalvalue
D noadoptioncodes	F setcatcode
D normalizelinecodes	F setcccode
D normalizeparcodes	F setconditional
D nospacesmodecodes	F setcount
N notcatcodes	F setdelcode
F number	F setdimen
F overloadpermitted	F setdimensionvalue
D paragraphfillmodecodes	F setfloat
D paragraphoptioncodes	F setglue

F	setglyphdata	D	spaceskipcodes
F	setglyphscript	D	specialmathclasscodes
F	setglyphstate	D	specificationoptioncodes
F	sethccode	F	splitbox
F	sethmcode	D	splitcodes
F	setinputstatefile	F	sprint
F	setinputstateline	F	stringtocodesbitmap
F	setinputstatemode	D	systemmodes
F	setinsertcontent	F	takebox
F	setinsertdistance	N	texcatcodes
F	setinsertlimit	D	textcontrolcodes
F	setinsertmaxplaced	T	toks
F	setinsertmultiplier	F	tonumber
F	setintegervalue	F	toscaled
F	setinteraction	N	tpacatcodes
F	setlccode	N	tpbcatcodes
F	setlinedir	F	tprint
F	setlist	F	trackedattribute
F	setlocalbox	D	trackers
F	setmath	F	triggerbuildpage
F	setmathcode	N	txtcatcodes
F	setmathdir	T	uccode
F	setmuglue	F	uprint
F	setmuskip	F	useboxresource
F	setnest	D	userdiscoptioncodes
F	setpardir	D	userglyphoptioncodes
F	setpositvalue	N	vrbcatcodes
F	setrunstate	F	write
F	setsfcode	T	texio
F	setskip	F	closeinput
F	setspcode	F	forceendoffile
F	settextdir	F	getinputindex
F	settoks	F	getselectorvalues
F	setuccode	F	getsourcefilename
T	sfcode	F	setlogfile
D	shapingpenaltiescodes	F	terminal
F	shiftparshape	F	write
F	shipout	F	write_nl
F	showcontext	F	writenl
T	skip	F	writeselector
D	snappingcodes	F	writeselectorlf
F	snapshotpar	F	writeselectornl
F	sp	T	token
D	spacefactorcodes	F	create

F expand	F getfrozen
F expand_macro	F getfunctionvalues
F expandmacro	F getid
F future_expand	F getimmutable
F futureexpand	F getindex
F get_active	F getinstance
F get_cmdchrcs	F getinteger
F get_cmdname	F getlength
F get_command	F getmacro
F get_csname	F getmeaning
F get_cstoken	F getnoaligned
F get_dimension	F getparameters
F get_expandable	F getpermanent
F get_fields	F getprimitive
F get_flags	F getprimitives
F get_frozen	F getprotected
F get_id	F getrange
F get_immutable	F gettok
F get_index	F gettolerant
F get_instance	F gobble
F get_integer	F gobble_dimension
F get_macro	F gobble_integer
F get_meaning	F gobbledimension
F get_noaligned	F gobbleinteger
F get_parameters	F grab
F get_permanent	F grabstring
F get_primitive	F inhibit
F get_protected	F is_defined
F get_range	F is_next_char
F get_tok	F is_token
F get_tolerant	F isactivestring
F getactive	F isdefined
F getcmdchrcs	F isnextchar
F getcmdname	F istoken
F getcommand	F locatemacro
F getcommandvalues	F new
F getconstant	F peek_next
F getcsname	F peek_next_char
F getcstoken	F peek_next_expanded
F getdimension	F peeknext
F getexpandable	F peeknextchar
F getexpansion	F peeknextexpanded
F getfields	F pop_macro
F getflags	F popmacro

F push_macro	F scanchar
F pushmacro	F scancmdchr
F put_back	F scancmdchrexpanded
F put_next	F scancode
F putback	F scancsname
F putnext	F scancstoken
F save_lua	F scandelimited
F savelua	F scandetokened
F scan_argument	F scandimen
F scan_box	F scandimenargument
F scan_cardinal	F scandimension
F scan_char	F scandimensionargument
F scan_cmdchr	F scanfloat
F scan_cmdchr_expanded	F scanglue
F scan_code	F scanint
F scan_csname	F scaninteger
F scan_delimited	F scanintegerargument
F scan_dimen	F scankey
F scan_float	F scankeyword
F scan_glue	F scankeywordcs
F scan_integer	F scanletters
F scan_key	F scanluacardinal
F scan_keyword	F scanluainteger
F scan_keyword_cs	F scanluanumber
F scan_letters	F scannext
F scan_luacardinal	F scannextchar
F scan_luainteger	F scannextexpanded
F scan_luanumber	F scanposit
F scan_next	F scanreal
F scan_next_char	F scanscale
F scan_next_expanded	F scanskip
F scan_real	F scanstring
F scan_scale	F scantoken
F scan_skip	F scantokencode
F scan_string	F scantokenlist
F scan_token	F scantokenstring
F scan_token_code	F scantoks
F scan_tokenlist	F scanvalue
F scan_toks	F scanword
F scan_value	F serialize
F scan_word	F set_dimension
F scanargument	F set_integer
F scanbox	F set_lua
F scancardinal	F set_macro

```
F setdimension              B typo-par
F setinteger                B typo-pnc
F setlua                    B typo-prc
F setmacro                  B typo-rep
F setmacrofrommark          B typo-rub
F setmacrotonothing         B typo-spa
F skip_next                 B typo-stc
F skip_next_expanded        B typo-sus
F skipnext                  B typo-syn
F skipnextexpanded          B typo-tal
F type                      B typo-wrp
F undefine_macro            B unic-ini
F undefinemacro             T utf8
B trac-bld                    F char
B trac-jus                    S charpattern
B trac-par                    F codepoint
B trac-riv                    F codes
B trac-sig                    F len
B trac-vis                    F offset
B type-ini                  T vector
B typo-adj                    F add
B typo-bld                    F append
B typo-brk                    F average
B typo-cap                    F ceiling
B typo-chr                    F checkoverlap
B typo-cln                    F collectoverlap
B typo-dha                    F concat
B typo-dif                    T contour
B typo-dig                      F average
B typo-dir                      F bounds
B typo-drp                      F checkoverlap
B typo-duc                      F collectoverlap
B typo-fkr                      F getarea
B typo-fln                      F getmesh
B typo-hid                      F makemesh
B typo-inj                      F overlapping
B typo-itc                      F show
B typo-krn                      F sort
B typo-lan                    F copy
B typo-lbx                    F crossproduct
B typo-man                    F delete
B typo-mar                    F determinant
B typo-ovl                    F div
B typo-pag                    F equal
```

F exchange

F floor

F get

F getdimensions

F getepsilon

F getmesh

F getrc

F getrow

F getstacking

F gettype

T helpers

  F points

  F transform

  F xrotation

  F xyzscale

  F yrotation

  F zrotation

F homogenize

F identity

F inner

F insert

F inverse

F ismesh

F issingular

F isvector

F iszero

T mesh

  F get

  F getdimensions

  F ismesh

  F new

  F set

  F tostring

  F totable

  F type

F meshname

F mul

F negate

F new

F normalize

F onecolumn

F onerow

F product

F remove

F replace

F round

F rowechelon

F set

F setepsilon

F setnext

F setrc

F setstacking

F slice

F sort

F sub

F swap

F tostring

F totable

F transpose

F triangulate

F truncate

F type

T xcomplex

  F I

  F __add

  F __div

  F __eq

  F __mul

  S __name

  F __pow

  F __sub

  F __tostring

  F __unm

  F abs

  F acos

  F acosh

  F arg

  F asin

  F asinh

  F atan

  F atanh

  F conj

  F cos

  F cosh

  F dawson

  F erf

  F erfc

  F erfcx

F erfi	F exp
F exp	F getprecision
F i	F ln
F imag	F log
F log	F max
F new	F min
F pow	F minus
F proj	F new
F real	F plus
F sin	F pow
F sinh	F rotate
F sqrt	F setprecision
F tan	F shift
F tanh	F sqrt
F topair	F toengstring
F tostring	F tonumber
F totable	F tostring
F voigt	F trim
F voigt_hwhm	T xmath
T xdecimal	F acos
F __add	F acosh
F __band	F asin
F __bor	F asinh
F __bxor	F atan
F __div	F atan2
F __eq	F atanh
F __idiv	F cbrt
F __le	F ceil
F __lt	F copysign
F __mod	F cos
F __mul	F cosh
S __name	F deg
F __pow	F erf
F __shl	F erfc
F __shr	F exp
F __sub	F exp2
F __tostring	F expm1
F __unm	F fabs
F abs	F fdim
F band	F floor
F bor	F fma
F bxor	F fmax
F conj	F fmin
F copy	F fmod

F frexp	F decompress
F gamma	F decompresssize
F hypot	T loaders
N inf	F loadlib
F isfinite	F luapaths
F isinf	S path
F isnan	F poplibpath
F isnormal	F popluapath
F j0	T preload
F j1	F pushlibpath
F jn	F pushluapath
F ldexp	F searchpath
F lgamma	T pagebuilders
F log	T columnsets
F log10	F add
F log1p	F addmvl
F log2	F block
F logb	F blockrows
F modf	F check
N nan	F checkmvl
F nearbyint	F clean
F nextafter	T data
N pi	F define
F pow	F definesub
F rad	F delayedsheet
F remainder	F finishflush
F remquo	F flushareas
F round	F flushcolumn
F scalbn	F goto
F sin	F gotoslot
F sinh	F limit
F sqrt	F noto
F tan	F prepareflush
F tanh	F presetsheets
F tgamma	F presetspreadsheets
F trunc	F put
F y0	F putdirect
F y1	F registerarea
F yn	F registersheet
T xzip	F registerspreadsheets
F adler32	F reset
F compress	F resetdirect
F compresssize	F reshape
F crc32	F setarea

```
  S editor                          S title
  S journal                         S year
  S keywords                      T optional
  S note                          T required
  S number                        T sets
  S pages                           T author
  S title                         T virtual
  S volume                      T demo-b
  S year                          S category
T optional                        T extra
T required                        T fields
T sets                              S author
  T author                         S institution
T virtual                          S organization
T book                             S subtitle
  S category                       S title
  T extra                          S year
  T fields                        T optional
    S address                     T required
    S author                      T sets
    S edition                       T authors
    S editor                      T virtual
    S keywords                  S comment
    S note                      S copyright
    S number                    T fields
    S publisher                 S name
    S subtitle                  T types
    S title                       S author
    S volume                      S editor
    S year                        S keywords
  T optional                      S number
  T required                      S page
  T sets                          S pages
    T author                      S volume
    T editionset              S version
  T virtual                   D virtual
T demo-a                      T virtualfields
  S category                      B authornum
  T extra                         B authoryear
  T fields                        B authoryears
    S author                      B num
    S institution                 B suffix
    S organization            T datasets
    S subtitle                T detailed
```

```
F endnotes_to_btx                          F dataset
T enhancer                                 F force
  S arguments                              F global
  T askip                                  F label
  T attr                                   F local
  B dirty                                F nofregistered
  T gskip                                F prepareentries
  T kind                                 F register
  T list                                 F sameasprevious
    T system                             T sorters
  T order                                  F cite
  N steps                                  F dataset
T enhancers                                F default
  F details                                F index
  F order                                  F list
  F suffixes                               F reference
F finder                                   F short
F firstofrange                             F used
F found                                    F uservariable
F get                                    T listvariants
F getcasted                                F default
F getdetail                                F index
F getdirect                                F num
F getfaster                                F short
F getfield                                 F tag
F getfuzzy                               F load
F getindex                               F loadbibdata
D inspectors                             F loaddefinitionfile
T journals                               T loaders
  F abbreviated                            F bbl
  F add                                    F bib
  F expanded                               F buffer
  F load                                   F endnote
  F save                                   F json
F lastofrange                              F lua
T lists                                    F refman
  F collectentries                         F registercleaner
  F combiinlist                            F xml
  F fetchentries                         F loadreplacementfile
  F filterall                            T meanings
  F flushcombi                           F new
  F flushentry                           F okay
  F flushtag                             F oneorrange
  T methods                              F parenttag
```

```
F permitted                          F showentry
F prerollcmdstring                   F showfields
F refman_to_btx                      F showhashedauthors
F resolvedname                       F showtables
F save                               F showvariants
T savers                           T typesetters
  F bib                              F author
  F lua                              F string
  F xml                            F usedataset
F search                           F usedentries
F setcategory                      T writers
F setspecification                   F author
F singularorplural                   F keyword
F sortedentries                      F pagenumber
T sortmethods                        F range
  T authortitle                    F rawequal
    T sequence                     F rawget
  T authoryear                     F rawlen
    T sequence                     F rawset
  T dataset                        T regimes
    T sequence                       D backmapping
  T key                              F cleanup
    T sequence                       F disable
T specifications                     F enable
F splitauthor                        F fromregime
F splitoneauthor                     F list
T statistics                         D mapping
  N nofbytes                         F pop
  N nofdatasets                      F process
  N nofdefinitions                   F push
  N nofshortcuts                     F toregime
T tables                             F translate
  D implicits                      F require
  D origins                        T resolvers
  D privates                         F allprefixes
  D sets                             F appendhash
  D specials                         F automount
  D types                            F booleanvariable
  D virtuals                         S cacheversion
F tags                               F checkedvariable
T tracers                            F cleanedpathlist
  F showdatasetauthors               D cleaners
  F showdatasetcompleteness          F cleanpath
  F showdatasetfields                F cleanpathlist
```

F cleanupbinfile
D concatinators
S configbanner
F configurationfiles
D dangerous
F datastate
T decompressors
  F register
  F unregister
T defaultsuffixes
F dirstatus
F dowithfilesandreport
F dowithfilesintree
F dowithpath
F dowithvariable
T executers
F expandbraces
F expandedpathfromlist
F expandedpathlist
F expandedpathlistfromvariable
F expandpath
F expandpathfromvariable
F expansion
F extendtexmfvariable
F filtered_from_content
F find_file
F find_files
F findbinfile
F findctxfile
D finders
F findfile
F findfiles
F findgivenfile
F findgivenfiles
F findlib
F findpath
F findpk
F findtexfile
F findwildcardfile
F findwildcardfiles
F formatofsuffix
F formatofvariable
D formats
F foundintree

F foundintrees
D generators
F get_from_content
F getdetails
F getenv
F getextrapaths
F getfilehashes
F gethashes
F getownpath
F getreadfilename
D hashers
S homedir
F ignorelibrary
F initialized
F installinputfilehandler
F installinputlinehandler
F jobpath
T jobs
  F collectstructure
  F currentcomponent
  F currentenvironment
  F currentproduct
  F currentproject
  F currentstructure
  F justacomponent
  F namelist
  D processors
  F productcomponent
  F usefile
F joinpath
F knownvariables
T libraries
  F optionalloaded
  F validoptional
F load
F loadbinfile
D loaders
F loadlualib
F loadtexfile
F loadtime
F locateformat
D locators
S luacnffallback
S luacnfname

```
S luacnfspec                           F scanfiles
S luacnfstate                          T schemes
T macros                                 T cleaners
  F convertfile                            F md5
  F decodecomment                          F none
  F enablecomment                          F strip
  F encodecomment                        F cleanname
  F preprocessed                         F fetchstring
  F processmk                            F fetchtable
  F processmklx                          F install
  F processmkvi                        F setdynamic
  F version                            F setenv
N maxreadlevel                         F showdetails
F methodhandler                        F showpath
F missinglibrary                       F simplescanfiles
F openbinfile                          F splitconfigurationpath
D openers                              F splitexpansions
F openfile                             F splitmethod
F opentexfile                          F splitpath
S ownpath                              F stackpath
F popextrapath                         F starttiming
F popinputname                         F stoptiming
F poppath                              D suffixes
D prefixes                             D suffixmap
F prependhash                          F suffixofformat
F pushextrapath                        F texdatablob
F pushinputname                        F toppath
F pushpath                             D tracers
F registerextrapath                    F unexpandedpath
F registerfile                         F unexpandedpathlist
F registerfilehash                     F unresolve
F registerintrees                      F updaterelations
F registermethod                       F updatescript
F registerzipfile                      F uselibrary
D relations                            D usertypes
F renew                                F usezipfile
F renewcache                           F validatedpath
F repath                               F variable
F reset                                F variableofformat
F resetextrapaths                      F variableofformatorsuffix
F resetresolve                         F wildcardpattern
F resolve                            T sandbox
D savers                               F blockrequire
F scandata                             F disablelibraries
```

```
  F disablerunners              F getstatus
  F enable                      D handlers
  F filehandlerone              D helpers
  F filehandlertwo              D injectors
  F finalizer                   T inserters
  F getrunner                     F nobreakspace_after
  F initializer                   F nobreakspace_before
  F iohandler                     F space_after
  F logcalls                      F space_before
  F logfiles                      F zerowidthspace_after
  F original                      F zerowidthspace_before
  F overload                    F installdataset
  F possiblepath                F installmethod
  F redefine                    D numbertodataset
  F register                    D numbertohandler
  F registerbinary              F reset
  F registerlibrary             F set
  F registerroot                F setstatus
  F registerrunner              D splitters
  F report                    F select
  F setfilenamelogger         T set
  F setlogger                   F contains
  F setreporter                 F create
  F settrace                    F tolist
  F validfilename               F tonumber
T scripts                       F totable
  T autofontfeature           F setinspector
    F disable                 F setmathparameters
    F enable                  F setmetatable
    F handler                 T sorters
  D colors                      F basicsorter
  F decomposehangul             T comparers
  T defaults                      F basic
    N inter_char_half_shrink_factor     T constants
    N inter_char_half_stretch_factor      S defaultdigits
    N inter_char_hangul_penalty           S defaultlanguage
    N inter_char_quarter_shrink_factor    S defaultmethod
    N inter_char_quarter_stretch_factor   N digitsmaximum
    N inter_char_shrink_factor            N digitsoffset
    N inter_char_stretch_factor           N ignoredoffset
    N inter_word_stretch_factor           N replacementoffset
  F getdata                       T validmethods
  F getinjector                     B ch
  F getsplitter                     B mc
```

```
        B mm                                  F stoptiming
        B pc                                  N threshold
        B pm                                  F timed
        B uc                                  F tracefunction
        B zc                              T storage
        B zm                                  F allocate
    D definitions                            T data
    F firstofsplit                           F mark
    F packch                                 F marked
    F packuc                                 N max
    F replacementlist                        N min
    F setlanguage                            N nofmodules
    F sort                                   N noftables
    T splitters                              F register
      F utf                                  D shared
    F strip                                  D storedfunctions
    D tracers                                B strip
    F update                                 N tofmodules
T statistics                                 N toftables
    F benchmarktimer                     T streams
    F checkfmtstatus                         F collect
    F currenttime                            F disable
    F elapsed                                F enable
    F elapsedindeed                          F flush
    F elapsedseconds                         F initialize
    F elapsedtime                            F push
    B enable                                 F start
    T feedback                               F stop
      F info                                 F synchronize
      F processstates                    T structures
      F register                             F atlocation
      F reportstates                         T blocks
      F setstate                               D collected
    F formatruntime                            F define
    F hastiming                                F empty
    F memused                                  F print
    F register                                 F save
    F resettiming                              F select
    F runtime                                  F setstate
    F savefmtstatus                            D states
    F show                                     D tobesaved
    F showmemory                               F uservariable
    F showusage                              T bookmarks
    F starttiming                              T extras
```

```
  F get                          F userpage
    F mergesections                F subs
    F register                   D tobesaved
    F reset                        F value
    F tosections                   F way
  F finalize                   F currentsectionnumber
  F flatten                    T descriptions
  F installhandler             T documents
  F merge                        D data
  S method                       F initialize
  F overload                     F preset
  F place                        F reset
  F register                   T floats
  F setopened                  T formulas
  F setup                      T helpers
T counters                       F analyze
  F add                          F formulanumber
  F analyze                      F merged
  F check                        F page
  D collected                    F pageofinternal
  F compact                      F prefix
  F converted                    F prefixlastpage
  F currentvalue                 F prefixpage
  D data                         F simplify
  F define                       F title
  F first                        F touserdata
  F get                        T inserts
  F last                         F attach
  F next                         D data
  F prev                         F define
  F previous                     F detach
  F raw                          F getdata
  F record                       F getlocation
  F reset                        F getname
  F restart                      F getnumber
  F restore                      F nofdetached
  F save                         F setlocation
  F set                          F setup
  F setlevel                     D stored
  F setoffset                  T itemgroups
  F setown                       D collected
  F setstate                     D tobesaved
  F setvalue                   T lists
T specials                       F addto
```

F	analyze	D	tobesaved
F	bookmark	F	use
D	cached	F	userdata
D	collected	F	userpage
F	discard	F	uservalue
F	enhance	T	marks
T	enhancers	F	number
F	external	F	title
F	filter	T	notes
F	formulanumber	F	checkpagechange
F	getresult	F	define
F	groupindex	F	flushrange
F	hasnumberdata	F	get
F	haspagedata	F	getdeltapage
F	hastitledata	F	getinternal
F	integrate	F	getn
F	iscached	F	getstate
D	kinds	F	getstorecount
F	label	F	getstoreflushed
F	location	F	hascontent
D	names	F	internal
F	number	F	internalid
D	ordered	F	listindex
F	page	D	numbers
F	popnesting	F	ordered
F	prefix	F	postpone
F	prefixednumber	F	resetpostponed
F	prefixedpage	F	restore
F	process	F	save
D	pushed	F	setstate
F	pushnesting	D	states
F	rawnumber	F	store
F	rawrealpage	T	pages
F	rawuserpage	F	allmarked
F	realpage	F	analyze
F	reorder	D	collected
F	reordered	F	fraction
T	result	F	getlabels
F	savedlistnumber	F	in_body
F	savedlistprefixednumber	F	is_odd
F	savedlisttitle	F	mark
D	sectionblocks	F	marked
F	size	F	markedlist
F	title	N	nofpages

T testrunners	D tobesaved
F inner	F tweak
F special	F unique
F special operation	F use
F special operation with arguments	F userdata
T testspecials	T sections
F deltapage	F autodepth
F i	F cct
F internal	D collected
F page	F current
F realpage	F currentblock
F section	F currentid
F userpage	F currentlevel
D tobereferred	F currentsectionindex
D tobesaved	F depthnumber
D tracedpages	F finddata
T urls	F findnumber
T data	F fullnumber
F define	F getcurrentlevel
F found	F getlevel
F get	F getnumber
F untex	F internalreference
D usedinternals	D levelmap
D usedviews	D levels
F valid	F matchingtilldepth
T registers	F numberatdepth
F analyze	F numbers
D collected	F popblock
F compare	F prefixedconverted
F define	F pushblock
F enhance	F register
F extend	D registered
F filter	F reportstructure
F filtercollected	F save
F finalize	T sectionblockdata
F findinternal	T bodypart
F flush	S bookmark
F get	F set
F integrate	F setblock
F prepare	F setchecker
F process	F setentry
F setmethod	F setinitialblock
F sort	F setlevel
F store	F setnumber

```
   F showstructure              F userpages
   F structuredata           T tags
   F title                      F analyze
   D tobesaved               T backend
   F typesetnumber              T checks
   F userdata                      F marginanchor
   B verbose                       F margintext
T sets                             F math
   F define                        F mrow
   F get                           F mtable
   F getall                     T destinationhash
   D setlist                    T extras
T specials                         F adddestination
   D collected                     F addimplicit
   F retrieve                      F addinternal
   F store                         F addreference
   D tobesaved                     F combination
T synonyms                         F combinationpair
   F analyzed                      F delimitedsymbol
   D collected                     F description
   F compare                       F descriptionsymbol
   F define                        F document
   F enhance                       F float
   F filter                        F formulacontent
   F finalize                      F image
   F firstuserpage                 F item
   F flush                         F itemgroup
   F isshown                       F link
   F isused                        F listitem
   F meaning                       F mmultiscripts
   F pages                         F mover
   F prepare                       F mpgraphic
   F process                       F msub
   F register                      F msubsup
   F registershown                 F msup
   F registerused                  F munder
   F reset                         F munderover
   F resetall                      F paragraph
   F resetlist                     F publication
   F resetshown                    F reference
   F resetused                     F registerlocation
   F sort                          F registerpages
   F synonym                       F registerseparator
   D tobesaved                     F section
```

F setparagraph	S DocumentFragment
F setproperty	S Em
F setpublication	S FENote
F setregister	S H1
F setsorting	S H2
F setsynonym	S H3
F settablecell	S H4
F settabulatecell	S H5
F settagdelimitedsymbol	S H6
F settagsubsentencesymbol	S H7
F setupexport	S H8
F setuserproperties	S H9
D specifications	S Index
F start	S Note
F stop	S Private
F strip	S Quote
D taglist	S Reference
T unsupported	S Strong
B Annot	S Sub
B Art	S TOC
B BibEntry	S TOCI
B Caption	S Title
B Document	D texconditionals
B DocumentFragment	T texconfig
B Em	T buffersize
B Form	N size
B H	N step
B Index	T errorlinesize
B Link	N size
B Note	T expandsize
B Quote	N size
B Reference	T filesize
B Strong	N size
B TOC	N step
B TOCI	S firstline
B Title	T fontsize
T usewithcare	N size
T where	N step
S Art	S formatname
S Artifact	N functionsize
S Aside	T halferrorlinesize
S BibEntry	N size
S BlockQuote	T hashsize
S Code	N size

N step	F toboolean
F init	F todecimal
T inputsize	T tokens
N size	T accessors
N step	F active
T insertsize	F cmd
N size	F cmdchrcs
N step	F cmdname
B kpse_init	F command
T languagesize	F csname
N size	F expandable
N step	F frozen
T marksize	F index
N size	F name
N step	F protected
T nestsize	F range
N size	F astable
N step	T bits
T nodesize	N active
N size	N alignment
N step	N begingroup
T parametersize	N character
N size	N close
N step	N comment
T poolsize	N endgroup
N size	N endofline
N step	N escape
N propertiessize	N ignore
T savesize	N invalid
N size	N letter
N step	N mathshift
S shell_escape	N open
T stringsize	N other
N size	N parameter
N step	N space
T tokensize	N subscript
N size	N superscript
N step	N whitespace
D texconstants	D cache
D texifs	D commands
D texisdefined	F compile
D texmodes	F constant
D texsystemmodes	T converters
T thirddata	S toboolean

```
S todimen                          T 7 strings
S toglue                           T 8 strings
S tonumber                       F pushmacro
S tostring                       T scanners
F create                           F argument
F defined                          F argumentasis
F flags                            F array
F getinteger                       F boolean
T getters                          F box
  F box                            F bracketed
  F count                          F bracketedasis
  F cstoken                        F cardinal
  F dimen                          F char
  F glue                           F cmdchr
  F macro                          F cmdchrexpanded
  F meaning                        F code
  F skip                           F conditional
  F token                          F count
F gobble                           F csname
F isactivestring                   F csnameunchecked
F isdefined                        F delimited
F istoken                          F detokened
F new                              F dimen
F pickup                           F dimension
F popmacro                         F dimensionargument
T presets                          F float
  T 1 argument                     F glue
  T 1 integer                      F gluespec
  T 1 optional                     F gluevalues
  T 1 string                       F hash
  T 2 arguments                    F hbox
  T 2 integers                     F integer
  T 2 optionals                    F integerargument
  T 2 strings                      F ischar
  T 3 arguments                    F key
  T 3 integers                     F keyword
  T 3 optionals                    F keywordcs
  T 3 strings                      F letters
  T 4 arguments                    F list
  T 4 integers                     F lua
  T 4 optionals                    F luacardinal
  T 4 strings                      F luainteger
  T 5 strings                      F luanumber
  T 6 strings                      F lxmlid
```

F next	F scanargumentasis
F nextchar	F scanarray
F nextexpanded	F scanboolean
F number	F scanbox
F optional	F scanbracketed
F peek	F scanbracketedasis
F peekchar	F scancardinal
F peekexpanded	F scanclose
F posit	F scancode
F real	F scanconditional
F scanclose	F scancsname
F scanopen	F scancsnameunchecked
F skip	F scandelimited
F skipexpanded	F scandetokened
F string	F scandimen
F table	F scandimension
F token	F scandimensionargument
F tokencode	F scanfloat
F tokenlist	F scanglue
F tokens	F scangluespec
F tokenstring	F scangluevalues
F toks	F scanhash
F value	F scanhbox
F vbox	F scaninteger
F verbatim	F scanintegerargument
F vtop	F scankeyword
F whd	F scankeywordcs
F word	F scanletters
F setinteger	F scanlist
T setters	F scanlua
F box	F scannumber
F char	F scanopen
F count	F scanoptional
F dimen	F scanposit
F glue	F scanstring
F lua	F scantable
F macro	F scantokenlist
F skip	F scantokenstring
T shortcuts	F scantoks
N close	F scanvbox
F inspect	F scanverbatim
N open	F scanvtop
F report	F scanword
F scanargument	F toboolean

```
  F todimen                              T characteralign
  F tonumber                               F handler
  F tostring                               F resetcharacteralign
  D values                                 F setcharacteralign
F tonumber                               T characters
F tostring                                 F handler
T tracers                                  T methods
  F printerror                             F replacenbsp
  F printwarning                           F replacenbspaces
  F showlines                            T checkers
T trackers                                 F handler
  D data                                   F reset
  F default                                F set
  F disable                              T cleaners
  T done                                   F handler
  F dumphashtofile                         F set
  F enable                               T compare
  F list                                   F handler
  S name                                   F reset
  F register                               F set
  F report                                 F setpair
  F reset                                  F setup
  F savehash                             T corrections
  F show                                   F handler
  F value                                T digits
  F values                                 T actions
F type                                     F handler
T typesetters                              F set
  T alignments                           T directions
    F handler                              F getfences
    F set                                  F getglobal
  T breakpoints                            F getmethod
    F define                               F handler
    F handler                              T handlers
    D mapping                              F installhandler
    T methods                              F set
    T numbers                              F setcolor
    F set                                  F tomode
    F setreplacement                     T firstlines
  T cases                                  T actions
    T actions                                F default
    F handler                                F line
    F register                               F word
    F set                                  F handler
```

```
  F set
T fontkerns
  F handler
T initials
  T actions
    F default
  F handler
  F set
T injectors
  F check
  T list
  F mark
  F reset
  F set
  F show
T italics
  F enablemath
  F enabletext
  F handler
T kerns
  D factors
  F handler
  F keepligature
  D mapping
  F set
T localboxes
  F handler
T manipulators
  F apply
  F applyspecification
  T methods
    F Word
    F Words
    F abbreviatedjournal
    F expandedjournal
    F lowercase
    F stripperiod
    F uppercase
  T patterns
    U list
    U pair
  F splitspecification
T margins
  F finalhandler

  F globalhandler
  F localhandler
  F save
F marksuspects
T paragraphs
  F addanchortoline
  F addtoline
  F calculatedelta
  F checkline
  F moveinline
T periodkerns
  D factors
  F handler
  D mapping
  F set
T processors
  F apply
  F register
  F reset
  F split
  F startapply
  F stopapply
  F stripped
  F tostring
T rubies
  F attach
  F check
F showinvisibles
F showsuspects
T spacings
  F define
  F handler
  D mapping
  T numbers
    T frenchpunctuation
      T characters
      S name
      N number
  F reset
  F set
  F setup
T stacking
  F getindex
  F getselection
```

```
  F savestats                          N version
  F showstats                        T parsers
  F showtraceback                      F add_settings_to_array
T formatters                           F arguments_to_table
  F formatcolumns                      F array_to_string
  F list                               F csvsplitter
  F stripzeros                         F getparameters
T ghostscript                          F groupedsplitat
  F convert                            F hash_to_string
  F statistics                         T hashes
T graphicmagick                          T settings_to_list
  F convert                              T settings_to_set
  F statistics                             T min,max,fit,broad,auto
T lua                                        B auto
  B alwaysstripcode                          B broad
  F checkmemory                              B fit
  F compile                                  B max
  F loadedluacode                            B min
  F loadstring                             T text,hidden,paper,page,leftpage,rightpage
  F loadstripped                             B hidden
  N nofstrippedbytes                         B leftpage
  N nofstrippedchunks                        B page
  F registerfinalizer                        B paper
  B stripcode                                B rightpage
  T strippedchunks                           B text
  F strippedloadstring                   F iterator
  T suffixes                             F keq_to_hash
    S lmt                                F listitem
    S lua                                F make_settings_to_hash_pattern
    S luc                                F mergehashes
    S lui                                F options_to_array
    S luj                                F options_to_hash
    S luv                                T patterns
    S tma                                  U settings_to_array
    S tmc                                  U settings_to_hash_a
    S tua                                  U settings_to_hash_b
    S tuc                                  U settings_to_hash_c
T packers                                  U settings_to_hash_d
  F hashed                                 U unittotex
  F new                                  F process_stripped_settings
  F pack                                 F rfc4180splitter
  F simplehashed                         F runtime
  F strip                                F settings_to_array
  F unpack                               F settings_to_array_obey_fences
```

F settings_to_array_with_repeat
F settings_to_hash
F settings_to_hash_colon_too
F settings_to_hash_strict
F settings_to_hash_tolerant
F settings_to_numbers
F settings_to_set
F simple_hash_to_string
F splitmethod
F splitthousands
F stepper
F stripped_settings_to_array
F totime
F unittotex
F unittoxml
T randomizer
F get
F getnumber
F getrepeatable
F getrepeatableseed
F getseed
F newrepeatable
F popseed
F pushseed
F repeatable
F reuseseed
F setseed
F setseedi
T randomizers
F poisson
T sequencers
F appendaction
F appendgroup
F compile
F disableaction
F disablegroup
F enableaction
F enablegroup
D functions
F localize
F new
F nodeprocessor
F prependaction
F prependgroup

F removeaction
F replaceaction
F setkind
F tostring
T setters
F disable
F enable
F initialize
F list
F new
F register
F report
F reset
F show
T signals
S configuration
F initialize
F loadstate
F report
F savestate
F serialclose
F serialfast
F serialopen
S serialprefix
F serialsend
F serialwrite
N version
T stacker
F new
T storage
F allocate
F checked
F mark
F marked
F setinitializer
F sparse
T streams
F close
F getposition
F getsize
F getstring
F look
F open
F openstring

F read2dot14
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal1le
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F readcline
F readcstring
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger1le
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readintegertable
F readsignedbyte
F readstring
F setposition
F size
F skip
F skipbytes
F skiplong
F skipshort
F tocardinal1
F tocardinal1le
F tocardinal2
F tocardinal2le
F tocardinal3
F tocardinal3le
F tocardinal4

F tocardinal4le
T strings
  F collapse
  F collapsecrlf
  T formatters
    F add
    F new
  F newcollector
  F newrepeater
  T striplinepatterns
    U collapse
    U collapse all
    U prune
    U prune and collapse
    U prune and no empty
    U prune and to space
    U retain
    U retain and collapse
    U retain and no empty
  F striplines
  F tabtospace
T tables
  F accesstable
  F definedtable
  F definetable
  F encapsulate
  F insertaftervalue
  F insertbeforevalue
  F migratetable
  F removevalue
  F replacevalue
T tar
  T archives
  F closearchive
  T files
    F fetch
    F hash
    F list
    F pack
    F unpack
  F openarchive
  T registeredfiles
  T streams
    F fetch

```
    F hash                              F visualizefile
    F list                              F visualizestring
    F pack                              F write
    F unpack                            F writeargument
  T strings                             F writedefault
    F fetch                             F writeemptyline
    F hash                              F writenewline
    F list                              F writespace
    F pack                          F warn
    F unpack                        T xml
  T templates                         F addentitiesdoctype
    F load                            F addspecialcode
    F replace                         F after
    F replacer                        F all
    F resolve                         F applylpath
  T zipfiles                          F applyselector
    F close                           F assign
    F found                           F attribute
    F hash                            F badinclusions
    F list                            F before
    F open                            F body
    F unzip                           T builtinentities
    F unzipdir                          B amp
    F zipdir                            B apos
T visualizers                           B gt
  D escapepatterns                      B lt
  F getspecification                    B quot
  F getvisualizer                     F cdata
  F load                              F cdatatotext
  F makenested                        F checkbom
  F makepattern                       F checkedempty
  F newgrammar                        F checkerror
  F newhandler                        F checknamespace
  F parsedxml                         F checkns
  F pattern                           F cleansed
  F register                          F collect
  F registerescapecommand             F collect_elements
  F registerescapeline                F collect_tags
  F registerescapepattern             F collect_texts
  S signal                            F collected
  U signalpattern                     F collecttexts
  D specifications                    F compactelement
  F visualize                         F content
  F visualizebuffer                   F convert
```

F copy

F count

F cprint

T css

  F applyselector

  F colorspecification

  F dimension

  F family

  F fontspecification

  F mappedstylevalue

  F padding

  F size

  F style

  F stylevalue

  F todimension

  F variant

  F weight

T defaulthandlers

  D file

  D parsedxml

  D string

  D tex

  D texline

  D texspace

  D verbose

S defaultprotocol

F delete

F delete_element

F despecialized

F each

F each_element

F elements

F elementtocdata

F empty

D entities

F erase

F errorhandler

F escaped

F expand

T expressions

  F attribute

  F boolean

  F child

  F contains

F count

F error

F find

F hasclass

F idstring

F lower

F name

F number

F oneof

F print

F quit

F tag

F text

F undefined

F upper

F fillin

F filter

T finalizers

  F paragraphs

  T tex

    F all

    F attribute

    F chainattribute

    F chainpath

    F collapsed

    F command

    F concat

    F concatrange

    F context

    F count

    F ctxtext

    F default

    F depth

    F first

    F function

    F index

    F last

    F lettered

    F lower

    F lowerall

    F match

    F name

    F param

    F parameter

```
   F position                              F gethandlers
   F reverse                               F gethandlersfunction
   F stripped                            T helpers
   F tag                                   F recursetext
   F tags                                F include
   F text                                F inclusion
   F upper                               F inclusions
   F upperall                            F index
   F url                                 F inheritattributes
   F xml                                 F inheritedconvert
 T xml                                   F inject
   F all                                 F inject_element
   F att                                 F inject_element_after
   F attribute                           F inject_element_before
   F attributes                          F injectafter
   F cdata                               F injectbefore
   F chainattribute                      F insert
   F count                               F insert_element
   F default                             F insert_element_after
   F elements                            F insert_element_before
   F empty                               F insertafter
   F first                               F insertbefore
   F function                            F insertcdata
   F index                               F insertcomment
   F last                                F inspect
   F lowerall                            F is_valid
   F match                               F kind
   F name                                F last
   F position                            F lastmatch
   F reverse                             F load
   F table                               F lpath
   F tag                                 F lpathcached
   F tags                                F lpathcalls
   F text                                F lshow
   F texts                               F makestandalone
   F tomacro                             F match
   F upperall                          T mml
   F url                                   F stripped
 F first                                  F verbose
 F found                                F name
T functions                             F newhandlers
   F classes                             F nodesettostring
   F hasclass                          T obsolete
 F getbuffer                              F collect_elements

                       previous  241  next
```

F collect_texts
F delete_element
F each_element
F inject_element
F inject_element_after
F inject_element_before
F insert_element_after
F insert_element_before
F process_attributes
F process_elements
F remap_name
F remap_namespace
F remap_tag
F replace_element
F strip_whitespace
F originalload
F package
F parent
U parsedentitylpeg
T pihandlers
  F injector
  F tex
T placeholders
  F unknown_any_entity
  F unknown_dec_entity
  F unknown_hex_entity
F popmatch
F position
D privatecodes
F privatetoken
F process
F process_attributes
F process_elements
F processattributes
T profiled
F pure
F pushmatch
F raw
F registerentity
F registerns
F reindex
F remap_name
F remap_namespace
F remap_tag

F remapname
F remapnamespace
F remaptag
F rename
F renamespace
U reparsedentitylpeg
F replace
F replace_element
F resetinjectors
F resolvens
F root
F save
F selection
F separate
F serialize
F serializetotext
F setcdata
F setcomment
F sethandlersfunction
F setinjectors
F setproperty
F settings
D specialcodes
T specialhandler
F sprint
F string
F strip
F strip_whitespace
F stripelement
F stripleadingspaces
F table
F text
F textonly
F texttocdata
F tocdata
F toelement
F tostring
F totable
F toxml
F tprint
F traverse
F unescaped
U unescapedentitylpeg
F unprivatized

F	unspecialized	F	warn
F	wipe	F	xpcall
F	withelement	**globals**	table
F	withelements	N	CONTEXTLMTXMODE
F	wrap	N	LUAFORMAT
T	xmlns	N	LUAMAJORVERSION
F	xpcall	N	LUAMINORVERSION
T	zip	S	LUATEXENGINE
T	archives	N	LUATEXFORMATID
F	closearchive	N	LUATEXFUNCTIONALITY
F	openarchive	S	LUATEXVERBOSE
T	registeredfiles	N	LUATEXVERSION
F	inspect	N	LUAVERSION
F	ipairs	F	SAVEDREQUIRE
F	load	F	assert
D	loaders	F	collectgarbage
F	loadfile	F	dimen
F	loadstring	F	dofile
F	next	F	error
F	optionalrequire	F	getmetatable
F	pairs	F	inspect
F	pcall	F	ipairs
F	print	F	load
F	rawequal	D	loaders
F	rawget	F	loadfile
F	rawlen	F	loadstring
F	rawset	F	next
F	require	F	optionalrequire
F	select	F	pairs
F	setinspector	F	pcall
F	setmathparameters	F	print
F	setmetatable	F	rawequal
D	texconditionals	F	rawget
D	texconstants	F	rawlen
D	texifs	F	rawset
D	texisdefined	F	require
D	texmodes	F	select
D	texsystemmodes	F	setinspector
F	toboolean	F	setmathparameters
F	todecimal	F	setmetatable
F	tonumber	D	texconditionals
F	tostring	D	texconstants
F	type	D	texifs
F	unpack	D	texisdefined

D	texmodes		F	scan
D	texsystemmodes		F	serialize
F	toboolean		F	storedata
F	todecimal		F	totable
F	tonumber		F	wrap
F	tostring		**inspect**		**function**
F	type		**interactions**		**table**
F	unpack		D	attachments
F	warn		D	linkedlists
F	xpcall		D	renderings
graphics		**table**		**interfaces**		**table**
F	bpsize		D	cachedsetups
F	identify		F	cachesetup
F	registerpdfcompactor		F	checkedspecification
F	registerpdffont		D	complete
gzip		**table**		D	constants
F	compress		D	corenamespaces
F	compressed		S	currentinterface
F	decompress		S	currentresponse
F	load		F	definecommand
F	save		F	defined
F	suffix		F	doifelsemessage
helper		**table**		D	elements
F	getprofile		D	formats
F	mathnested		F	getmessage
F	mathprocess		F	getnamespace
F	mathstep		F	getsetupstring
F	snapindeed		D	hashedsetups
F	snaplist		F	implement
F	traversecharmethod		F	interfacedcommand
F	traverseglyphmethod		F	knownscanner
F	traversehorizontal		F	message
F	traversevertical		F	nameofscanner
images		**table**		F	registernamespace
F	check		F	registerscanner
F	checksize		D	scanners
F	copy		F	setconstant
F	create		F	setcount
F	embed		F	setdimen
F	embedfromstore		F	setelement
F	fetchdata		F	setformat
F	print		F	setmacro
F	resetdata		F	setmessage
F	resetstore		F	setmessages

F	settranslation		**job**	table
D	setupstrings		F	comment
F	setvariable		F	disablesave
F	showmessage		F	getrandomseed
D	storedscanners		F	initialize
F	tolist		F	load
D	translations		F	loadother
D	usednamespaces		B	pack
D	variables		N	packversion
F	writestatus		F	register
io		table	F	save
F	ask		N	version
F	bytes		**kpse**	table
F	characters		**language**	table
F	close		F	clean
F	copydata		F	clearhyphenation
F	exists		F	clearpatterns
S	fileseparator		F	current
F	flush		F	gethjcode
F	gobble		F	has_language
F	input		F	hyphenate
F	lines		F	hyphenation
F	loadchunk		F	hyphenationmin
F	loaddata		F	id
F	loadlines		F	new
F	newreader		F	patterns
F	noflines		F	postexhyphenchar
F	open		F	posthyphenchar
F	output		F	preexhyphenchar
S	pathseparator		F	prehyphenchar
F	popen		F	sethjcode
F	read		F	setwordhandler
F	readall		**languages**	table
F	readnumber		F	addgoodiesdata
F	readstring		F	addgoodiesfile
F	savedata		F	associate
F	size		D	associated
U	stderr		F	association
U	stdin		D	counters
U	stdout		F	current
F	tmpfile		D	data
F	type		D	decimals
F	write		F	define
ipairs		function	F	explicithyphen

F	exportlanguage
F	flatten
F	getdata
F	getmetadata
F	getnumber
F	goodiefiles
F	hyphenate
F	installed
F	installhandler
F	loadable
F	loadwords
F	nofflattened
D	numbers
F	pdflanguage
F	postexhyphenchar
F	posthyphenchar
F	preexhyphenchar
F	prehyphenchar
D	registered
F	serializediscretionary
F	setexceptions
F	setgoodieshandler
F	setoptions
F	setpatterns
F	setsynonym
F	setwordhandler
F	showdiscretionaries
F	strippedgoodiewords
F	tolang
F	unload
N	version
F	visualizediscretionaries

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F	getcanvas
F	getpagedimensions
F	setupcanvas

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F	attributes
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F pushlogfile	F boolean
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F	count	F	new
F	currentattributes	F	protectglyph
F	dimensions	F	protectglyphs
F	effectiveglue	F	protrusionskippable
F	endofmath	F	rangedimensions
F	family_font	F	remove
F	fields	F	serialized
F	findattribute	F	setattribute
F	flattendiscretionaries	F	setfield
F	flushlist	F	setfielderror
F	flushnode	F	setglue
F	free	F	setproperty
F	getattribute	F	show
F	getcachestate	F	size
F	getfield	F	slide
F	getfielderror	F	subtypes
F	getglue	F	tail
F	getnodeerrorvalues	F	todirect
F	getpropertiestable	F	tonode
		F	tostring
		F	traverse
		F	traverseid
		F	type

F	types	F	getbox
F	unprotectglyph	F	getchar
F	unprotectglyphs	F	getfield
F	unsetattribute	F	getfont
F	usedlist	F	getid
F	usesfont	F	getleader
F	vpack	F	getlist
F	write	F	getnext
nodes	**table**	F	getprev
D	accentcodes	F	getproperty
F	aligned	F	getsubtype
F	append	D	gluecodes
F	apply	D	glyphcodes
F	applyvisuals	F	hasattribute
F	astable	F	hasfield
F	basepoints	F	hpack
D	boundarycodes	F	idsandsubtypes
D	choicecodes	F	idstostring
F	concat	F	insertafter
F	copy	F	insertbefore
F	copy_node	F	insertlistafter
F	copylist	F	installattributehandler
F	countall	F	is_display_math
F	currentattributes	F	isdirect
F	delete	F	isnode
D	dircodes	F	isnut
D	directioncodes	D	kerncodes
D	directionvalues	F	leftmarginwidth
D	dirvalues	F	link
D	disccodes	F	linked
D	discretionarycodes	F	list
D	fencecodes	D	listcodes
F	fields	F	listtoutf
D	fillcodes	D	literalvalues
D	fillvalues	F	locate
F	firstdirinbox	D	markcodes
F	flush	D	mathcodes
F	flushlist	D	mathvalues
F	flushnode	F	maxboxwidth
D	fractioncodes	F	new
F	fullhpack	D	noadcodes
F	getattr	D	nodecodes
F	getattribute	F	nopts
F	getboth	F	packlist

D parcodes	F takebox
D penaltycodes	F tobasepoints
F points	F tocentimeters
F prepend	F tociceros
F print	F todidots
F pts	F todimen
D radicalcodes	F toinches
F rehpack	F tomillimeters
F remove	F tonode
F repackhlist	F tonodes
F replace	F tonut
F report	F topicas
F rightmarginwidth	F topoints
D rulecodes	F toscaledpoints
F serialize	F tosequence
F serializebox	F tostring
F serialized	F totable
F setattr	F totree
F setattribute	F toutf
F setattrlist	F traverse
F setboth	F traverseid
F setbox	F unsetattribute
F setboxtonaturalwd	F upcomingproperties
F setchar	F usedlist
F setfield	F vianodes
F setfont	F vianuts
F setleader	F visualizebox
F setlink	F vpack
F setlist	D whatsitcodes
F setnext	F write
F setprev	**number** table
F setproperty	F %
F showboxes	F basepoints
F showlist	F bytetodecimal
F showsimplelist	F compactfloat
D skipcodes	F decimaltobyte
F somepenalty	D dimenfactors
F somespace	F formatted
F splitbox	F formattedfloat
F startofpar	F fractiontobyte
F stripdiscretionaries	F idiv
D subtypes	N maxdimen
F tail	F nopts
F takeattr	F nubasepoints

F	nupoints	F	date
F	percent	F	difftime
F	points	F	enableansi
F	pts	D	env
F	signed	F	execute
F	sparseexponent	F	exit
F	splitdimen	F	fulltime
F	to16dot16	F	getcodepage
F	tobasepoints	F	getenv
F	tobitstring	F	getnamevalues
F	tocentimeters	F	gettimeofday
F	tociceros	F	gettypevalues
F	tocontext	F	getunamefields
F	todidots	F	isleapyear
F	todimen	F	launch
F	toediths	S	libsuffix
F	toevenhex	F	localtime
F	toinches	S	name
F	tomillimeters	S	newline
F	tonumberf	F	nofdays
F	tonumberg	F	now
F	topicas	F	pipeto
F	topoints	S	platform
F	toscaled	F	remove
F	toscaledpoints	F	rename
F	totoves	F	resultof
F	valid	F	runtime
objects	table	S	selfbin
F	dimensions	S	selfcore
F	found	S	selfdir
N	n	S	selflink
F	page	S	selfname
F	reference	S	selfpath
F	register	F	serialwrite
F	restore	F	setenv
optional	table	F	setexitcode
optionalrequire	function	F	setlocale
os	table	F	sleep
F	__getenv__	F	startuptime
F	__setenv__	F	time
S	binsuffix	F	timezone
N	bits	F	tmpname
F	clock	F	today
F	converttime	S	type

F	uname		F	getfromreference
F	uuid		F	getfromstream
F	validdate		F	getinfo
F	weekday		F	getinteger
F	where		F	getmemoryusage
F	which		F	getname
package	**table**		F	getnofobjects
S	config		F	getnofpages
S	cpath		F	getnumber
F	extralibpath		F	getobjectrange
F	extralibpaths		F	getpage
F	extraluapath		F	getpages
F	extraluapaths		F	getpermissions
F	libpaths		F	getsize
F	loadlib		F	getstatus
F	luapaths		F	getstatusvalues
S	path		F	getstream
F	poplibpath		F	getstring
F	popluapath		F	gettrailer
F	pushlibpath		F	getversion
F	pushluapath		F	new
F	searchpath		F	open
pagebuilders	**table**		F	openfile
pairs	**function**		F	openstream
parametersets	**table**		F	pagestotable
pcall	**function**		F	readfromstream
pdf	**table**		F	readwholestream
F	immediateobj		F	type
pdfdecode	**table**		F	unencrypt
pdfe	**table**		**physics**	**table**
F	arraytotable		**pngdecode**	**table**
F	close		F	applyfilter
F	closestream		F	expand
F	dictionarytotable		F	frompalette
F	getarray		F	interlace
F	getboolean		F	makemask
F	getbox		F	palettemask
F	getcatalog		F	reduce
F	getdictionary		F	setexperiment
F	getencodingvalues		F	splitmask
F	getfieldtypes		F	tocmyk
F	getfromarray		F	togray
F	getfromdictionary		F	tomask
F	getfromobject		F	transparentmask

posit	table			**min**	
F	NaN			F	modf
F	NaR			F	new
F	__add			F	pow
F	__band			F	rotate
F	__bor			F	round
F	__bxor			F	rounded
F	__div			F	shift
F	__eq			F	sin
F	__le			F	sqrt
F	__lt			F	tan
F	__mul			F	tobyte
S	__name			F	tochar
F	__pow			F	tonumber
F	__shl			F	toposit
F	__shr			F	tostring
F	__sub			**potrace**	table
F	__tostring			F	checked
F	__unm			F	concat
F	abs			F	contourplot
F	acos			F	convert
F	asin			F	count
F	atan			F	flush
F	band			F	free
F	bor			F	fromfile
F	bxor			F	getbitmap
F	ceil			F	getnewfields
F	conj			F	getpolicyvalues
F	copy			F	getprocessfields
F	cos			F	new
F	exp			F	process
F	exp2			F	setbitmap
F	expand			F	stripped
F	floor			F	totable
F	frombyte			F	trace
F	fromchar			**print**	function
F	fromposit			**publications**	table
F	integer			F	addtexentry
F	log			F	analyze
F	log10			F	anywhere
F	log1p			D	authorcache
F	log2			D	authorcollapsers
F	logb			D	authormap
F	max			F	authortoregister

F expandpath	F loadbinfile
F expandpathfromvariable	D loaders
F expansion	F loadlualib
F extendtexmfvariable	F loadtexfile
F filtered_from_content	F loadtime
F find_file	F locateformat
F find_files	D locators
F findbinfile	S luacnffallback
F findctxfile	S luacnfname
D finders	S luacnfspec
F findfile	S luacnfstate
F findfiles	N maxreadlevel
F findgivenfile	F methodhandler
F findgivenfiles	F missinglibrary
F findlib	F openbinfile
F findpath	D openers
F findpk	F openfile
F findtexfile	F opentexfile
F findwildcardfile	S ownpath
F findwildcardfiles	F popextrapath
F formatofsuffix	F popinputname
F formatofvariable	F poppath
D formats	D prefixes
F foundintree	F prependhash
F foundintrees	F pushextrapath
D generators	F pushinputname
F get_from_content	F pushpath
F getdetails	F registerextrapath
F getenv	F registerfile
F getextrapaths	F registerfilehash
F getfilehashes	F registerintrees
F gethashes	F registermethod
F getownpath	F registerzipfile
F getreadfilename	D relations
D hashers	F renew
S homedir	F renewcache
F ignorelibrary	F repath
F initialized	F reset
F installinputfilehandler	F resetextrapaths
F installinputlinehandler	F resetresolve
F jobpath	F resolve
F joinpath	D savers
F knownvariables	F scandata
F load	F scanfiles

F	setdynamic		F	original
F	setenv		F	overload
F	showdetails		F	possiblepath
F	showpath		F	redefine
F	simplescanfiles		F	register
F	splitconfigurationpath		F	registerbinary
F	splitexpansions		F	registerlibrary
F	splitmethod		F	registerroot
F	splitpath		F	registerrunner
F	stackpath		F	report
F	starttiming		F	setfilenamelogger
F	stoptiming		F	setlogger
D	suffixes		F	setreporter
D	suffixmap		F	settrace
F	suffixofformat		F	validfilename
F	texdatablob		**scripts**	**table**
F	toppath		D	colors
D	tracers		F	decomposehangul
F	unexpandedpath		F	getdata
F	unexpandedpathlist		F	getinjector
F	unresolve		F	getsplitter
F	updaterelations		F	getstatus
F	updatescript		D	handlers
F	uselibrary		D	helpers
D	usertypes		D	injectors
F	usezipfile		F	installdataset
F	validatedpath		F	installmethod
F	variable		D	numbertodataset
F	variableofformat		D	numbertohandler
F	variableofformatorsuffix		F	reset
F	wildcardpattern		F	set
sandbox	**table**		F	setstatus
F	blockrequire		D	splitters
F	disablelibraries		**select**	**function**
F	disablerunners		**serial**	**table**
F	enable		F	__gc
F	filehandlerone		S	__name
F	filehandlertwo		F	__tostring
F	finalizer		F	close
F	getrunner		F	open
F	initializer		F	send
F	iohandler		F	tostring
F	logcalls		F	write
F	logfiles		**set**	**table**

F contains			F readinteger1	
F create			F readinteger1le	
F tolist			F readinteger2	
F tonumber			F readinteger2le	
F totable			F readinteger3	
setinspector	function		F readinteger3le	
setmathparameters	function		F readinteger4	
setmetatable	function		F readinteger4le	
sha2	table		F readintegertable	
F HASH256			F tocardinal1	
F HASH384			F tocardinal1le	
F HASH512			F tocardinal2	
F HEX256			F tocardinal2le	
F HEX384			F tocardinal3	
F HEX512			F tocardinal3le	
F digest256			F tocardinal4	
F digest384			F tocardinal4le	
F digest512			**socket**	table
F hash256			N BLOCKSIZE	
F hash384			N _SETSIZE	
F hash512			N _SOCKETINVALID	
F hex256			F bind	
F hex384			F choose	
F hex512			F connect	
F sum256			F connect4	
F sum384			F connect6	
F sum512			F gettime	
sio	table		F newtry	
F read2dot14			F protect	
F readbytes			F report	
F readbytetable			F select	
F readcardinal1			F sink	
F readcardinal1le			F skip	
F readcardinal2			F sleep	
F readcardinal2le			F source	
F readcardinal3			F tcp	
F readcardinal3le			F tcp4	
F readcardinal4			F tcp6	
F readcardinal4le			F try	
F readcardinaltable			**sorters**	table
F readcline			F basicsorter	
F readcstring			D definitions	
F readfixed2			F firstofsplit	
F readfixed4			F packch	

F	packuc		F	getbufferstate
F	replacementlist		F	getcallbackstate
F	setlanguage		F	getconstants
F	sort		F	geterrorlinestate
F	strip		F	geterrorstate
D	tracers		F	getexpandstate
F	update		F	getfilestate

sparse   table

			F	getfontstate
F	concat		F	gethalferrorlinestate
F	get		F	gethashstate
F	max		F	gethyphenationstate
F	min		F	getinputstate
F	new		F	getinsertstate
F	range		F	getlanguagestate
F	restore		F	getlinebreakstate
F	set		F	getlookupstate
F	traverse		F	getluastate
F	wipe		F	getmarkstate

statistics   table

			F	getmvlstate
F	benchmarktimer		F	getneststate
F	checkfmtstatus		F	getnodestate
F	currenttime		F	getparameterstate
F	elapsed		F	getpoolstate
F	elapsedindeed		F	getreadstate
F	elapsedseconds		F	getsavestate
F	elapsedtime		F	getsparsestate
B	enable		F	getstringstate
F	formatruntime		F	gettexstate
F	hastiming		F	gettokenstate
F	memused		F	getwarningstate
F	register		F	list
F	resettiming		F	resetmessages
F	runtime			

storage   table

F	savefmtstatus		F	allocate
F	show		F	mark
F	showmemory		F	marked
F	showusage		N	max
F	starttiming		N	min
F	stoptiming		N	nofmodules
N	threshold		N	noftables
F	timed		F	register
F	tracefunction		D	shared

status   table

			D	storedfunctions
F	getbalancestate		B	strip

N tofmodules	F itself
N toftables	F len
streams table	F limit
F collect	F linetable
F disable	F longtostring
F enable	F lower
F flush	F match
F initialize	F nospaces
F push	F octtointeger
F start	F optionalquoted
F stop	F pack
F synchronize	F packrowscolumns
string table	F packsize
F autodouble	F quote
F autosingle	F quoted
F booleanstring	F rep
F byte	F replacenewlines
F bytepairs	F reverse
F bytes	F split
F bytetable	F splitintolines
F char	F splitlines
F characterpairs	F splitup
F characters	F strip
F checkedsplit	F sub
F chrtointeger	F texhashed
F collapsespaces	F texnewlines
F containsws	F tformat
F count	F toHEX
F dectointeger	F toboolean
F dump	F tobytes
F escapedpattern	F tocontext
F escapedquotes	F todec
F f6	F todimen
F find	F tohex
F format	F tonodes
F formatter	F topattern
D formatters	F totable
F fullstrip	F tounicode16
F gmatch	F toutf
F gsub	F toutf16
F hextocharacters	F toutf32
F hextointeger	F toutf8
F is_boolean	F tracedchar
F is_empty	F unescapedquotes

F	unpack	F	is_empty
F	unquote	F	is_simple_table
F	unquoted	F	keys
F	upper	F	load
F	utf16toutf8	F	loweredkeys
F	utfcharacter	F	makeweak
F	utfcharacters	F	merge
F	utfcharactertable	F	merged
F	utflength	F	mirrored
F	utfpadd	F	move
F	utfpadding	F	pack
F	utftabletostring	F	prepend
F	utfvalue	F	print
F	utfvalues	F	remove
F	utfvaluetable	F	reverse
F	valid	F	reversed
F	wordsplitter	F	save

structures   table
F	atlocation	F	sequenced
F	currentsectionnumber	F	serialize

table   table
F	append	F	setmetatablecall
F	are_equal	F	setmetatableindex
F	combine	F	setmetatableindices
F	compact	F	setmetatablenewindex
F	concat	F	sort
F	contains	F	sorted
F	copy	F	sortedhash
F	count	F	sortedhashkeys
F	create	F	sortedhashonly
F	derive	F	sortedindexonly
F	deserialize	F	sortedkeys
F	fastcopy	F	sortedpairs
F	fastserialize	F	sparse
F	filtered	F	strip
F	flattened	F	sub
F	fromhash	F	swapped
F	getn	F	tocontext
F	has_one_entry	F	tocsv
F	hashed	F	tofile
F	identical	F	tohandle
F	imerge	F	tohash
F	imerged	F	toxml
F	insert	F	unique
		F	unpack

tex   table

F	attributetracking	F	getalignmentcontextvalues
D	automigrationcodes	F	getamcode
D	autoparagraphcodes	F	getappendadjustcontextvalues
F	badness	F	getappendmigratecontextvalues
D	badnessmodecodes	F	getattribute
F	balance	F	getautomigrationvalues
D	balancecallbackcodes	F	getautoparagraphvalues
D	boxoptioncodes	F	getbadnessmodevalues
D	breakcodes	F	getbalancecallbackvalues
D	buildcodes	F	getbalanceparameterfields
D	charactercontrolcodes	F	getbalanceresultfields
D	charactertagcodes	F	getbalancestepoptionvalues
F	chardef	F	getbox
D	classoptioncodes	F	getboxdir
D	conditionals	F	getboxoptionvalues
D	constants	F	getboxresourcebox
F	cprint	F	getboxresourcedimensions
N	ctdcatcodes	F	getbreakcontextvalues
N	ctxcatcodes	F	getbuildcontextvalues
F	definefont	F	getcardinalvalue
F	dimensiondef	F	getcatcode
D	directioncodes	F	getcccode
D	directives	F	getcharactercontrolvalues
D	discoptioncodes	F	getchartertagvalues
D	discpartcodes	F	getcount
F	dontcomplain	F	getcurrentmvl
D	doublescriptoptioncodes	F	getdelayedgluelocationvalues
F	enableprimitives	F	getdelayedgluetargetvalues
F	error	F	getdelcode
F	expandasvalue	F	getdelcodes
D	experiments	F	getdimen
F	extraprimitives	F	getdimensionvalue
F	fatalerror	F	getdirectionvalues
D	fillcodes	F	getdiscoptionvalues
D	flagcodes	F	getdiscpartvalues
F	fontidentifier	F	getdoublescriptoptionvalues
F	fontname	F	getemptyparagraphmodevalues
F	forcehmode	F	geterrorrecoverymodevalues
F	forceinputstatefile	F	geterrorvalues
F	forceinputstateline	F	getfillvalues
F	fprint	F	getflagvalues
D	frozenparcodes	F	getfloat
F	get	F	getfontdimension
F	getadjustoptionvalues	F	getfontoffamily

F	getfrozenparvalues	F	getlistfields
F	getglue	F	getlistgeometryvalues
F	getglueoptionvalues	F	getlistsignvalues
F	getglyphdata	F	getlocalbox
F	getglyphdiscvalues	F	getlocalboxlocations
F	getglyphoptionvalues	F	getlocallevel
F	getglyphprotectionvalues	F	getmark
F	getglyphscales	F	getmarknames
F	getglyphscript	F	getmath
F	getglyphstate	F	getmathclassoptionvalues
F	getgroupvalues	F	getmathcode
F	gethccode	F	getmathcodes
F	gethelptext	F	getmathcontrolvalues
F	gethmcode	F	getmathdir
F	gethyphenationvalues	F	getmathgluevalues
F	getiftypes	F	getmathoptionvalues
F	getinputstatefile	F	getmathparametervalues
F	getinputstateline	F	getmathscriptordervalues
F	getinputstatemode	F	getmathscriptsmodevalues
F	getinsertcategoryvalues	F	getmathstylenamevalues
F	getinsertcontent	F	getmathstylevalues
F	getinsertdepth	F	getmathstylevariant
F	getinsertdistance	F	getmathsurroundvalues
F	getinsertheight	F	getmathvariantpresets
F	getinsertlimit	F	getmathvariantvalues
F	getinsertmaxplaced	F	getmeasure
F	getinsertmultiplier	F	getmissingcharactervalues
F	getinsertoptionvalues	F	getmode
F	getinsertsplitvalues	F	getmodevalues
F	getinsertwidth	F	getmuglue
F	getintegervalue	F	getmuskip
F	getinteraction	F	getmvloptionvalues
F	getinteractionmodes	F	getnest
F	getiovalues	F	getnestfields
F	getkerneloptionvalues	F	getnestlevel
F	getkernoptionvalues	F	getnoadoptionvalues
F	getlargestusedmark	F	getnormalizelinevalues
F	getlccode	F	getnormalizeparvalues
F	getlinebreakparameterfields	F	getnospacesmodevalues
F	getlinebreakresultfields	F	getoutputactive
F	getlinebreakstatevalues	F	getpacktypevalues
F	getlinedir	F	getpagecontextvalues
F	getlist	F	getpagestate
F	getlistanchorvalues	F	getpagestatevalues

F getparagraphfillmodevalues	D hyphenationcodes
F getparagraphoptionvalues	D ifs
F getparametermodevalues	N inicatcodes
F getparcontextvalues	D insertcategorycodes
F getpardataspecifications	D insertoptioncodes
F getpardir	D insertsplitcodes
F getparmodevalues	F integerdef
F getparstate	D interactioncodes
F getparstatefields	F isattribute
F getpartriggervalues	F isbox
F getpenaltyoptionvalues	F iscount
F getpositvalue	F isdefined
F getprepoststatevalues	F isdimen
F getprimitivelegacies	F isfloat
F getprimitiveorigins	F isglue
F getprotrusionboundaryvalues	F ismuglue
F getregisterindex	F ismuskip
F getruleoptionvalues	F isprintable
F getrunstate	F isskip
F getrunstatevalues	F istoks
F getsfcode	F lastnodetype
F getshapingpenaltiesvalues	F linebreak
F getskip	D linebreakstatecodes
F getsnappingvalues	D listanchorcodes
F getspacefactorvalues	D listgeometrycodes
F getspaceskipvalues	D listsigncodes
F getspcode	N luacatcodes
F getspecialmathclassvalues	F mathchardef
F getspecification	D mathcontrolcodes
F getspecificationoptionvalues	D mathoptioncodes
F gettextcontrolvalues	D mathparametercodes
F gettextdir	D mathscriptordercodes
F gettoks	D mathscriptsmodecodes
F getuccode	D modes
F getuleaderlocationvalues	F mprint
F getunitclassvalues	D mvloptioncodes
F getusedmarks	N nilcatcodes
F getvsplitcontextvalues	D noadoptioncodes
D glueoptioncodes	D normalizelinecodes
D glyphdisccodes	D normalizeparcodes
D glyphoptioncodes	D nospacesmodecodes
D groupcodes	N notcatcodes
F hashtokens	F number
N hshcatcodes	F overloadpermitted

D paragraphfillmodecodes	F setglue
D paragraphoptioncodes	F setglyphdata
D parcontextcodes	F setglyphscript
D partriggercodes	F setglyphstate
D penaltyoptioncodes	F sethccode
F poplocal	F sethmcode
F popsavelevel	F setinputstatefile
F positdef	F setinputstateline
F preparelinebreak	F setinputstatemode
F primitives	F setinsertcontent
F print	F setinsertdistance
D protrusionboundarycodes	F setinsertlimit
N prtcatcodes	F setinsertmaxplaced
F pushlocal	F setinsertmultiplier
F pushsavelevel	F setintegervalue
F quitlocal	F setinteraction
F quittoks	F setlccode
F resetparagraph	F setlinedir
N rlncatcodes	F setlist
F romannumeral	F setlocalbox
F round	F setmath
D ruleoptioncodes	F setmathcode
F runlocal	F setmathdir
D runstatecodes	F setmuglue
F runstring	F setmuskip
F runtoks	F setnest
F saveboxresource	F setpardir
F scale	F setpositvalue
F scantoks	F setrunstate
F set	F setsfcode
F setamcode	F setskip
F setattribute	F setspcode
F setbalanceshape	F settextdir
F setbox	F settoks
F setboxdir	F setuccode
F setcardinalvalue	D shapingpenaltiescodes
F setcatcode	F shiftparshape
F setcccode	F shipout
F setconditional	F showcontext
F setcount	D snappingcodes
F setdelcode	F snapshotpar
F setdimen	F sp
F setdimensionvalue	D spacefactorcodes
F setfloat	D spaceskipcodes

D	specialmathclasscodes		F	write
D	specificationoptioncodes		F	write_nl
F	splitbox		F	writenl
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F	sprint		F	writeselectorlf
F	stringtocodesbitmap		F	writeselectornl

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F	get_expandable
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F	get_id
F	get_immutable
F	get_index
F	get_instance
F	get_integer
F	get_macro
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F	getactive	F	isdefined
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F	getcommandvalues	F	new
F	getconstant	F	peek_next
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F	getcstoken	F	peek_next_expanded
F	getdimension	F	peeknext
F	getexpandable	F	peeknextchar
F	getexpansion	F	peeknextexpanded
F	getfields	F	pop_macro
F	getflags	F	popmacro
F	getfrozen	F	push_macro
F	getfunctionvalues	F	pushmacro
F	getid	F	put_back
F	getimmutable	F	put_next
F	getindex	F	putback
F	getinstance	F	putnext
F	getinteger	F	save_lua
F	getlength	F	savelua
F	getmacro	F	scan_argument
F	getmeaning	F	scan_box
F	getnoaligned	F	scan_cardinal
F	getparameters	F	scan_char
F	getpermanent	F	scan_cmdchr
F	getprimitive	F	scan_cmdchr_expanded
F	getprimitives	F	scan_code
F	getprotected	F	scan_csname
F	getrange	F	scan_delimited
F	gettok	F	scan_dimen
F	gettolerant	F	scan_float
F	gobble	F	scan_glue
F	gobble_dimension	F	scan_integer
F	gobble_integer	F	scan_key
F	gobbledimension	F	scan_keyword
F	gobbleinteger	F	scan_keyword_cs
F	grab	F	scan_letters
F	grabstring	F	scan_luacardinal
F	inhibit	F	scan_luainteger
F	is_defined	F	scan_luanumber
F	is_next_char	F	scan_next
F	is_token	F	scan_next_char

F scan_next_expanded	F scanskip
F scan_real	F scanstring
F scan_scale	F scantoken
F scan_skip	F scantokencode
F scan_string	F scantokenlist
F scan_token	F scantokenstring
F scan_token_code	F scantoks
F scan_tokenlist	F scanvalue
F scan_toks	F scanword
F scan_value	F serialize
F scan_word	F set_dimension
F scanargument	F set_integer
F scanbox	F set_lua
F scancardinal	F set_macro
F scanchar	F setdimension
F scancmdchr	F setinteger
F scancmdchrexpanded	F setlua
F scancode	F setmacro
F scancsname	F setmacrofrommark
F scancstoken	F setmacrotonothing
F scandelimited	F skip_next
F scandetokened	F skip_next_expanded
F scandimen	F skipnext
F scandimenargument	F skipnextexpanded
F scandimension	F type
F scandimensionargument	F undefine_macro
F scanfloat	F undefinemacro
F scanglue	**tokens** table
F scanint	F astable
F scaninteger	D cache
F scanintegerargument	D commands
F scankey	F compile
F scankeyword	F constant
F scankeywordcs	F create
F scanletters	F defined
F scanluacardinal	F flags
F scanluainteger	F getinteger
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F scannext	F isactivestring
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F scannextexpanded	F istoken
F scanposit	F new
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F	pushmacro		F	split
F	setinteger		F	toquery
D	values		F	unescape
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tostring	**function**			
tracers	**table**		**userdata**	**table**
F	printerror		**utf**	**table**
F	printwarning		F	byte
F	showlines		F	bytepairs
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D	data		F	characters
F	default		F	chrlen
F	disable		F	count
F	dumphashtofile		F	filetype
F	enable		F	is_valid
F	list		F	len
S	name		F	length
F	register		F	lower
F	report		F	remapper
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F	savehash		F	split
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F	values		F	substituter
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F	marksuspects		F	toentities
F	showinvisibles		F	tostring
F	showsuspects		F	totable
unpack	**function**		F	upper
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F	apply		F	utf16_to_utf8_be
F	register		F	utf16_to_utf8_be_t
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F	addscheme		F	utf16_to_utf8_le_t
F	barepath		F	utf16_to_utf8_t
F	construct		F	utf32_to_utf8_be
F	decode		F	utf32_to_utf8_be_t
F	encode		F	utf32_to_utf8_le
F	escape		F	utf32_to_utf8_le_t
F	filename		F	utf32_to_utf8_t
F	hashed		F	utf8_to_utf16
F	hasscheme		F	utf8_to_utf16_be
F	query		F	utf8_to_utf16_le
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F	codes		
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F	offset		
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F	ceiling		
F	checkoverlap		
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F	copy		
F	crossproduct		
F	delete		
F	determinant		
F	div		
F	equal		
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F	floor		
F	get		
F	getdimensions		
F	getepsilon		
F	getmesh		
F	getrc		
F	getrow		
F	getstacking		
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F	homogenize		
F	identity		
F	inner		
F	insert		
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F	ismesh		
F	issingular		
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F	iszero		
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F	mul		
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F	new		
F	normalize		
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F	product		
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F	getvisualizer		
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F	newhandler		
F	parsedxml		
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F visualizebuffer			F real	
F visualizefile			F sin	
F visualizestring			F sinh	
F write			F sqrt	
F writeargument			F tan	
F writedefault			F tanh	
F writeemptyline			F topair	
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F __add			F __add	
F __div			F __band	
F __eq			F __bor	
F __mul			F __bxor	
S __name			F __div	
F __pow			F __eq	
F __sub			F __idiv	
F __tostring			F __le	
F __unm			F __lt	
F abs			F __mod	
F acos			F __mul	
F acosh			S __name	
F arg			F __pow	
F asin			F __shl	
F asinh			F __shr	
F atan			F __sub	
F atanh			F __tostring	
F conj			F __unm	
F cos			F abs	
F cosh			F band	
F dawson			F bor	
F erf			F bxor	
F erfc			F conj	
F erfcx			F copy	
F erfi			F exp	
F exp			F getprecision	
F i			F ln	
F imag			F log	
F log			F max	
F new			F min	
F pow			F minus	

F new		F isnormal	
F plus		F j0	
F pow		F j1	
F rotate		F jn	
F setprecision		F ldexp	
F shift		F lgamma	
F sqrt		F log	
F toengstring		F log10	
F tonumber		F log1p	
F tostring		F log2	
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F acos		N nan	
F acosh		F nearbyint	
F asin		F nextafter	
F asinh		N pi	
F atan		F pow	
F atan2		F rad	
F atanh		F remainder	
F cbrt		F remquo	
F ceil		F round	
F copysign		F scalbn	
F cos		F sin	
F cosh		F sinh	
F deg		F sqrt	
F erf		F tan	
F erfc		F tanh	
F exp		F tgamma	
F exp2		F trunc	
F expm1		F y0	
F fabs		F y1	
F fdim		F yn	
F floor		**xml**	table
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F fmax		F addspecialcode	
F fmin		F after	
F fmod		F all	
F frexp		F applylpath	
F gamma		F applyselector	
F hypot		F assign	
N inf		F attribute	
F isfinite		F badinclusions	
F isinf		F before	
F isnan		F body	

F cdata	F index
F cdatatotext	F inheritattributes
F checkbom	F inheritedconvert
F checkedempty	F inject
F checkerror	F inject_element
F checknamespace	F inject_element_after
F checkns	F inject_element_before
F cleansed	F injectafter
F collect	F injectbefore
F collect_elements	F insert
F collect_tags	F insert_element
F collect_texts	F insert_element_after
F collected	F insert_element_before
F collecttexts	F insertafter
F compactelement	F insertbefore
F content	F insertcdata
F convert	F insertcomment
F copy	F inspect
F count	F is_valid
F cprint	F kind
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F delete	F lastmatch
F delete_element	F load
F despecialized	F lpath
F each	F lpathcached
F each_element	F lpathcalls
F elements	F lshow
F elementtocdata	F makestandalone
F empty	F match
D entities	F name
F erase	F newhandlers
F errorhandler	F nodesettostring
F escaped	F originalload
F expand	F package
F fillin	F parent
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F first	F popmatch
F found	F position
F getbuffer	D privatecodes
F gethandlers	F privatetoken
F gethandlersfunction	F process
F include	F process_attributes
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F	pure	F	table
F	pushmatch	F	text
F	raw	F	textonly
F	registerentity	F	texttocdata
F	registerns	F	tocdata
F	reindex	F	toelement
F	remap_name	F	tostring
F	remap_namespace	F	totable
F	remap_tag	F	toxml
F	remapname	F	tprint
F	remapnamespace	F	traverse
F	remaptag	F	unescaped
F	rename	U	unescapedentitylpeg
F	renamespace	F	unprivatized
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F	replace	F	wipe
F	replace_element	F	withelement
F	resetinjectors	F	withelements
F	resolvens	F	wrap
F	root	**xpcall**	function
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F	separate	F	compress
F	serialize	F	compresssize
F	serializetotext	F	crc32
F	setcdata	F	decompress
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F	setinjectors	F	closearchive
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F	sprint	F	compress
F	string	F	compresssize
F	strip	F	crc32
F	strip_whitespace	F	decompress
F	stripelement	F	decompresssize
F	stripleadingspaces		

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LUAMINORVERSION	number		S current	
LUATEXENGINE	string		F getcallbackstate	
LUATEXFORMATID	number		F initialize	
LUATEXFUNCTIONALITY	number		F latelua	
LUATEXVERBOSE	string		F nothing	
LUATEXVERSION	number		F openout	
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F encode			F decode85	
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F applyoverloads			F encode85	
F checkvalues			F encodeLZW	
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F define			**bibtex**	table
F getvalue			**bit32**	table
F getvalues			F arshift	
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D list			F bnot	
F markasoverload			F bor	
D names			F btest	
D numbers			F bxor	
F ofnode			F extract	
F private			F lrotate	
F public			F lshift	
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F restore			F rrotate	
F save			F rshift	
F setcleaner			**blobs**	table
F showcurrent			F append	
F system			F dimensions	
F tooverloads			F dispose	
N unsetvalue			F new	

F	pack	F	downgrade	
F	strdp	F	downsample	
F	strhd	F	getbyte	
F	strht	F	getbytes	
F	strwd	F	getvalue	
F	tohpack	F	hasbytegray	
F	tonodes	F	hasbyterange	
F	tovpack	F	hasbytergb	
F	write	F	new	

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F tonumber

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F append

F assign

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F empty

F erase

F exists

F get

F getcontent

F getctxlua

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F undent

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F checkparcontext

F checksidefloat

F parpassidentifier

D passnames

F registerpaspasscallback

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F clip

F copy

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F downgrade

F downsample

F getbyte

F getbytes

F getvalue

F hasbytegray

F hasbyterange

F hasbytergb

F new

F newdomain

F process

F reduce

F reset

F setgray

F setgrayadd

F setgraymin

F setrgb

F slicegray

F slicerange

F slicergb

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F collapsecontent

F configfiles

F contentstate

F getfirstreadablefile

F getreadablepaths

F getwritablepath

F hashed

F is_writable

F loadcontent

F loaddata

S more

F savecontent

F savedata

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F setluanames

F treehash

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F find

F getindex

F getoptions

F getoptionvalues

F	getstate	D	enccodes
F	getstatevalues	D	entities
F	known	D	fallbacks
F	list	D	filters
F	names	F	fromnumber
F	register	D	fschars
F	setoptions	D	fscodes
F	setstate	F	getrange
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F	freeze	D	is_character
F	getcomment	D	is_command
F	getstates	D	is_hyphenator
F	known	D	is_letter
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F	pop	D	is_nothing
F	push	D	is_punctuation
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D	names	F	lccode
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F	register	F	lettered
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F	addcharacternames	D	linebreaks
F	adobename	F	lower
D	bidi	D	mathlists
F	blockrange	D	otfscripts
D	blocks	D	ranges
D	can_have_space	F	registerentities
D	categories	F	remap_hangul_syllabe
F	category	F	setactivecatcodes
D	categorytags	F	setlettercatcodes
D	collapsed	F	setothercatcodes
D	combined	F	shape
F	contextname	F	shaped
D	csletters	D	shash
D	data	D	shchars
D	decomposed	D	shcodes
F	description	F	showstring
D	descriptions	D	specialchars
D	detailtags	D	specials
F	emojized	D	synonyms

F	tonumber	F	MPwhd
D	ucchars	F	MPx
F	uccode	F	MPxy
D	uccodes	F	MPxywhd
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F	unicodechar	F	Romannumerals
F	upper	F	actualday
D	verbosemarks	F	actualmonth
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F	component	F	adaptfontfeature
F	define	F	adaptivecheckbox
D	definitions	F	addbtxentry
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F	inlinechemical	F	adddefaultsuffix
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F	molecule	F	addgrapheme
U	moleculeparser	F	addlinenumbers
F	start	F	addlinklistelement
F	stop	F	addreplacements
F	undefine	F	addreplacementslist
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F	Alphabetic	F	addtocolumnsetmvl
F	MPLIBconvertfollowtext	F	addtojavascriptpreamble
F	MPLIBconvertoutlinetext	F	addtolist
F	MPc	F	align_point_delta
F	MPd	F	allinputpaths
F	MPfromhash	F	alphabetic
F	MPh	F	analysefloatmethod
F	MPll	F	analyzeitemgroup
F	MPlr	F	analyzelist
F	MPls	F	analyzelocalanchors
F	MPn	F	analyzeregister
F	MPp	F	analyzerotate
F	MPpardata	F	analyzeupcomingitemgroup
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F	MPr	F	applytofirstcharacter
F	MPrest	F	arraycompare
F	MPrs	F	arrayequals
F	MPul	F	arraymaxvalue
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F	MPw	F	arraysize

F arrayvalue	F boxlinemaxdp
F ascender	F boxlinemaxht
F askedreference	F boxlinemaxwd
F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinenw
F attachinsertions	F boxlinerh
F atwordboundary	F boxlinerp
F autofinishstructurelevels	F boxliners
F autoinsertnextspace	F boxlines
F automigrationcodestring	F boxlinewd
F autonextstructurelevel	F boxoptioncodestring
F autorule	F boxrangedp
F autosetups	F boxrangeht
F autostarttext	F boxrangewd
F autostoptext	F boxtostring
F badnessmodecodestring	F bposcolumn
F balanceshapeextra	F bposcolumnregistered
F benchmarktimer	F bs
F bf	F btxabbreviatedjournal
F bi	F btxaddentry
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F bitwise	F btxauthor
F bitwiseand	F btxauthorfield
F bitwiseflip	F btxauthortoregister
F bitwisenil	F btxcmdstring
F bitwisenot	F btxcollectlistentries
F bitwiseor	F btxcurrentfirstnames
F bitwiseset	F btxcurrentinitials
F bitwiseshift	F btxcurrentjuniors
F bitwisexor	F btxcurrentsurnames
F blockcolumnset	F btxcurrentvons
F blockligatures	F btxdetail
F boolcase	F btxdirect
F boxdir	F btxdoif
F boxline	F btxdoifelse
F boxlinedp	F btxdoifelsecitedone
F boxlineht	F btxdoifelsecombiinlist
F boxlineil	F btxdoifelsematches
F boxlinein	F btxdoifelsesameasprevious
F boxlineir	F btxdoifelseuservariable
F boxlinelh	F btxdoifnot
F boxlinelp	F btxentrytobuffer
F boxlinels	F btxentrytostring

F	btxexpandedjournal	F	checkedpagefloat
F	btxfetchlistentries	F	checkinjector
F	btxfield	F	checkinterfacechain
F	btxfirstofrange	F	checkmarkedpages
F	btxflush	F	checknesting
F	btxflushlistcombi	F	checkspacingavailable
F	btxflushlistentry	F	checkstrutdepth
F	btxflushlisttag	F	chemicalcomponent
F	btxflushmarked	F	chinesenumerals
F	btxflushpages	F	chr
F	btxhandlecite	F	classoptioncodestring
F	btxhandlenocite	F	cleancolumnset
F	btxlastofrange	F	cleanfontname
F	btxlistvariant	F	cleanupattributes
F	btxloaddefinitionfile	F	cleanupbox
F	btxloadjournallist	F	cleanuplayers
F	btxloadreplacementfile	F	clonefield
F	btxmissing	F	closein
F	btxoneorrange	F	closeout
F	btxpreparelistentries	F	codedef
F	btxremapauthor	F	collectedmath
F	btxsavedataset	F	collectfloat
F	btxsavejournallist	F	collecthelp
F	btxsetdataset	F	columnsetbalancefirst
F	btxsetentry	F	columnsetbalancelast
F	btxsetregister	F	columnsetbalancepage
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F	btxshortcut	F	columnsetdisablewide
F	btxshowauthorremapping	F	columnsetenablewide
F	btxsingularorplural	F	columnsetgoto
F	btxtoregister	F	columnsethascontent
F	btxusedataset	F	columnsethspan
F	btxuservariable	F	columnsetlastfuture
F	build_page_after_shipout	F	columnsetlastmvl
F	build_page_before_shipout	F	columnsetlimit
F	build_page_setup	F	columnsetnoto
F	capheight	F	columnsetresetdirect
F	charactercontrolcodestring	F	columnsetresetshapeextra
F	chardescription	F	columnsetreshape
F	checkcolumnset	F	columnsetsblockrows
F	checkcolumnsetmvl	F	columnsetsetshapeextra
F	checkcountersetup	F	columnsetshape
F	checkedconversion	F	columnsetshapebalancecheck
F	checkedemoji	F	columnsetshapebalanceextend

F columnsetshapecolumn

F columnsetshapecount

F columnsetshapeindex

F columnsetshapepage

F columnsetshapesetbalancerange

F columnsetshapeslots

F columnsetshapespread

F columnsetshapevsize

F columnsetshapeworst

F columnsetshowgrid

F columnsetshowshape

F columnsetshowtracedgrid

F columnsetstate

F columnsetstatus

F combineglyphs

F component

F concatcommalist

F consultfloat

F continueifinputfile

F convertbtxdatasettoxml

F converteddimen

F convertmpstopdf

F copyboxfromcache

F copyboxline

F copyposition

F cos

F cosd

F ctxfunction

F ctxluamatch

F ctxluamatchfile

F ctxresetter

F ctxscanner

F currentcomponent

F currentdate

F currentdesignsize

F currentenvironment

F currentfontinstancespec

F currentposthyphenchar

F currentprehyphenchar

F currentproduct

F currentproject

F currentsectiontolist

F datasetsize

F datasetvariable

F day

F daymnem

F dayname

F decimals

F decrementcounter

F decrementsubcounter

F deferredenhancelist

F deferredenhancereference

F deferredenhanceregister

F defineaccents

F defineattribute

F defineboundary

F definebreakpoint

F definebreakpoints

F definecharacterspacing

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F definecounter

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F definefieldset

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F definefont_two

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F definefontfamilypreset

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F definefontscriptset

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F definehyphenationfeatures

F defineinsertion

F defineintermediatecolor

F definelabcolorglobal

F definelabcolorlocal

F definelabels

F definelanguage

F definelinkedlist

F definemathpreset

F definemultitonecolorglobal

F definenamespace

F definenote

F defineparallel

F defineparbuilder

F defineprocesscolordummy

F defineprocesscolorglobal

F defineprocesscolorlocal

F defineprogram

F definereference

F defineregister

F definesectionlevels

F definespotcolorglobal

F definestructureblock

F definestructureset

F definesubcolumnset

F definetransparency

F definetransparencyglobal

F definetypeface

F defineviewerlayer

F delayedcolumnsetsheet

F depthnumber

F depthofstring

F descender

F detachinsertions

F diagnostic

F digits_normal

F digits_reverse

F directboxfromcache

F disableautofontscript

F disablecollectingmath

F disabledirectives

F disableexperiments

F disablejobsave

F disableparbuilder

F disableregime

F disablespellchecking

F disablestatetriggering

F disablestream

F disabletrackers

F discardfromlist

F discoptioncodestring

F disposeboxesincache

F disposeluatable

F doanalyzeframedbox

F doif

F doifcounter

F doifelse

F doifelseblack

F doifelseboxincache

F doifelsebuffer

F doifelsebufferempty

F doifelsecharinfont

F doifelseconverter

F doifelsecounter

F doifelsecurrentfonthasfeature

F doifelsedimenstring

F doifelsedrawingblack

F doifelsefieldcategory

F doifelsefieldset

F doifelsefiledefined

F doifelsefileexist

F doifelsefirstchar

F doifelsefirstsectionpage

F doifelsefontfeature

F doifelsefontpresent

F doifelseindented

F doifelseinelement

F doifelseinputfile

F doifelseleapyear

F doifelselisthasentry

F doifelselisthasnumber

F doifelselisthaspage

F doifelselisthastitle

F doifelsemarkedcontent

F doifelsemarkedpage

F doifelsemessage

F doifelsenoteonsamepage

F doifelseobjectfound

F doifelseobjectreferencefound

F doifelseolderversion

F doifelseoverlapping

F doifelseparallel

F doifelseparentfile

F doifelsepathexist

F doifelsependingpagecontent

F doifelseposition

F doifelsepositiononpage

F doifelsepositionsonsamepage

F doifelsepositionsonthispage

F doifelsepositionsused

F doifelserangeonpage

F doifelsereference

F doifelsereferencechecked

F doifelsereferenced

F doifelserighttoleftinbox

F doifelsesame

F doifelsesomething

F doifelsespaces

F doifelsestackedfloats

F doifelsestructureblocksempty

F doifelsesynonymshown

F doifelsesynonymused

F doifelsetaggednoteonsamepage

F doifelseurldefined

F doifelseutfmathaccent

F doifelseutfmathfiller

F doifelseutfmathlimop

F doifelsevalidhashedfiles

F doifelsevisualizer

F doifmarkedpage

F doifnot

F doifnotcounter

F doifnotecontent

F doifnotsame

F doifnotthing

F doifposition

F doifsame

F doifsomething

F doifunknownfontfeature

F domainattribute

F doreshapeframedbox

F doresyncframedbox

F dosaveposition

F dosavepositionplus

F dosavepositionwhd

F dosetposition

F dosetpositionbox

F dosetpositionplus

F dosetpositionstrut

F dosetpositionstrutkind

F dosetpositionwhd

F dostarttextfile

F dostoptextfile

F doublescriptmodecodestring

F droptablegroup

F elapsedsteptime

F elapsedtime

F embedimagefromstore

F enablealignmentcharacter

F enablealignskips

F enableasciimode

F enableautofences

F enableautofontscript

F enablebackgroundalign

F enablebackgroundboxes

F enablecollectingmath

F enablecolor

F enablecolorintents

F enablecrlf

F enabledirectives

F enabledriver

F enableexperiments

F enablefontcolorschemes

F enablehidecontent

F enablemathalignrelocate

F enablematrixornaments

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F enablestream

F enableswapping

F enabletighten

F enabletrackers

F enabletransparency

F enableutf

F enhancelinkedlist

F enhancelist

F enhanceregister

F enhancesynonym

F environment

F eposcolumn

F eposcolumnregistered

F erasebuffer

F execute

F exportbox

F exportformdata

F exportreferences

F expression

F extendregister

F extendregisterlate

F extensiblecode

F fakeword

F featureattribute

F feedback

F fetchlanguagetext

F fetchmultipar

F fetchposboxes

F fetchterminaldata

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F figure_mergegoodies

F figure_nof_registered_pages

F figure_register_page

F figuresetdimensions

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F filedirname

F filenameonly

F filesuffix

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F filterreference

F finalizeobjectbox

F finalizeshipoutbox

F findregisterinternal

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F finishexport

F firstinset

F firstsectionpage

F firstsubcountervalue

F flagcodestring

F flushcolumnsetareas

F flushcolumnsetcolumn

F flushfloat

F flushlabeledfloat

F flushnoterange

F flushnotes

F flushpageblocks

F flushpageinjectionsafter

F flushpageinjectionsbefore

F flushpostponedblocks

F flushpostponednotes

F flushstream

F flushstreamcopy

F fontchar

F fontcharbyindex

F fontcollectionclone

F fontcollectiondefine

F fontcollectionprepare

F fontcollectionregister

F fontcollectionreport

F fontcollectionreset

F fontlookupgetkey

F fontlookupgetkeyofindex

F fontlookupinitialize

F fontlookupnoffound

F forceendjob

F forcepageflush

F forcequitjob

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F	getprivatemathchar	F	hyphenateddigits
F	getprivateslot	F	hyphenatedlist

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F ifboxhaslist

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F ifmode

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F ifpositunum

F ifsetups

F ifsystemmode

F iftext

F ifxml

F ifxmlatt

F ifxmlattempty

F ifxmlempty

F ifxmlselfempty

F ifxmltext

F ignorefile

F ignoretagsinexport

F immediatemessage

F includesvgbuffer

F includesvgfile

F incrementcounter

F incrementsubcounter

F inhibitprimitive

F initializeexport

F initializejob

F initializemathcollapsing

F initializemathfencing

F initializemathitalics

F initializemathkernpairs

F initializemathnumbers

F initializemathspacing

F initializestream

F initializetexdirectives

F initializetexexperiments

F initializetextrackers

F injectcurrentreference

F injectcurrentreferencehtdp

F injectdisable

F injectnowhite

F injectreference

F injectvpenalty

F injectvskip

F injectvspacing

F injectzerobaselineskip

F inlinechemical

F inputfilebarename

F inputfilename

F inputfilerealsuffix

F inputfilesuffix

F insertattachment

F insertcategorycodestring

F insertcomment

F insertfield

F insertionnumber

F insertoptioncodestring

F insertrenderingwindow

F inspectluatable

F installedlanguages

F installtexdirective

F installtexexperiment

F installtextracker

F interceptsamepagecontent

F it

F jobfilefullname

F jobfilename

F jobfilesuffix

F jobposd

F jobposh

F jobposp

F jobposw

F jobposx

F jobposy

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F languagenumber

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F lastnodeid

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F lastnodesubtypestring		F loadfontgoodies
F lastparwrapper		F loadlibrary
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F lastsavedimageresourcepages		F loadmapfile
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F lastsubcountervalue		F loadspellchecklist
F lastunitstring		F loadtexfile
F lastxpos		F loadtexfileonce
F lastypos		F loadtypescriptfile
F lateindent		F loadvisualizer
F latelua		F loadxmlfile
F lateundent		F loadxmlfileonce
F lchexnumber		F localanchorx
F lchexnumbers		F localanchory
F leapyear		F localboxindent
F limitated		F localboxindex
F linebuffering		F localboxlefthang
F linedir		F localboxleftoffset
F lineprofilebox		F localboxleftskip
F linesegment		F localboxlinenumber
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F listnamespaces		F localboxparinitleftskip
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F listrawnumber		F localboxrighthang
F listrawrealpage		F localboxrightoffset
F listrawuserpage		F localboxrightskip
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F listsize		F localpushmacro
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F listuserdata		F loopcs
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F loadcldfileonce		F luadimen

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F	markedpages	F	mpoptions
F	markingnumber	F	mpoutlinetoks
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F	markinjector	F	mppushvariables
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F	mixsetsplit	F	nofbufferlines

F nofconversions	F parpasscallback
F nofdays	F parpassidentifier
F nofdetachedinsertions	F parpos
F noflinesinbox	F partriggercodestring
F nofmathvariants	F pdfbackendcurrentresources
F nofstackedfloats	F pdfbackendsetcatalog
F nologbuffering	F pdfbackendsetcolorspace
F normalizecodestring	F pdfbackendsetextgstate
F normalizedbodyfontsize	F pdfbackendsetinfo
F normalizeparcodestring	F pdfbackendsetname
F nospacesmodecodestring	F pdfbackendsetpageattribute
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F notetitle	F pdfcolor
F ntb_split_section_check	F pdfextension
F ntb_split_section_fetch	F pdffeedback
F ntb_split_section_locate	F pdflastobj
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F number	F pdfrefobj
F numbers	F pdfsetuserdata
F objectreference	F pdfvariable
F objectreferencepage	F percentageof
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F overloadlowercase	F pfatantwo
F overloadsattribute	F pfceil
F overloaduppercase	F pfcos
F pageblockrealpage	F pfcosh
F pageofinternal	F pfdeg
F pageoverflow	F pfexp
F pagestaterealpage	F pffloor
F pagestaterealpageorder	F pflog
F paragraphfillmodecodestring	F pfmod
F paragraphoptioncodestring	F pfpow
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F pardir	F pfrem

F pfround

F pfsin

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F pfsqrt

F pftan

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F pgfxcolorspec

F pickupbuffer

F pickupmarkedcontent

F pickuppunctuation

F placeparallel

F popfloat

F pophyphenation

F poplist

F poplocalanchors

F poplogfile

F popparagraphtweak

F poppath

F poprandomseed

F popreferenceprefix

F popregime

F poprunstate

F popsectionblock

F positunum

F positunumdef

F postlistbox

F postlistcopy

F postponenotes

F prefixedconverted

F prelistbox

F prelistcopy

F preparecolumnsetflush

F prerolledpages

F presetcolumnsetsheets

F presetcolumnsetspreadsheets

F presetmathematics

F presetmathfontalternate

F presetsymbollist

F previoussubcountervalue

F privatecharacter

F privatecharactercode

F processbodyfontsizes

F processbuffer

F processcollectedmath

F processedfile

F processedfiles

F processfile

F processfilemany

F processfilenone

F processfileonce

F processjob

F processlist

F processregister

F processsplit

F processsynonyms

F product

F profilebox

F profilemacro

F project

F pruneboxesincache

F purefontname

F pushfloat

F pushhyphenation

F pushlist

F pushlocalanchors

F pushlogfile

F pushparagraphtweak

F pushpath

F pushrandomseed

F pushreferenceprefix

F pushregime

F pushrunstate

F pushsectionblock

F pushstream

F putboxincache

F putincolumnset

F putincolumnsetdirect

F putnextboxincache

F qrcodebuffer

F qrcodestring

F rawMPdata

F rawcharacter

F rawsetupstring

F rawsubcountervalue

F read

F readfromterminal

F readline

F readlinedirect

F recolorbox	F registerpostponedblock
F referencecolumn	F registerreferencedobject
F referencepagedetail	F registerrendering
F referencepagestate	F registersection
F referenceposx	F registershownsynonym
F referenceposy	F registersnaprange
F referencerealpage	F registerstructureprocessor
F registeranchorbox	F registersynchronize
F registerattachment	F registersynonym
F registerbackendsymbol	F registertransliteration
F registerbackground	F registerunit
F registerbodyfontsize	F registerunitshortcut
F registerbookmark	F registerunknownbodysize
F registerboxglyph	F registerusedsynonym
F registerbuttons	F registeruserdata
F registercolorintent	F registerverbosemathlabel
F registercolumnsetarea	F removelastline
F registercolumnsetsheet	F renderingvar
F registercolumnsetspreadsheets	F reorderfloats
F registerengineclass	F replacefeature
F registerfallbackfont	F replacepospxywhd
F registerfiguremask	F replacewildcard
F registerfigurepattern	F reportstructure
F registerfigurerange	F resavefloat
F registerfiguresuffix	F reservedautoregiontag
F registerfilescheme	F resetMPinstance
F registerfontalternative	F resetalternate
F registerfontfamily	F resetbackgroundrowdata
F registerforcedbreak	F resetboxesincache
F registergroupset	F resetcharacteralign
F registerhashedfiles	F resetcolumnset
F registerhelp	F resetcomparingtext
F registerhyphenationexception	F resetcounter
F registerhyphenationpattern	F reseteffect
F registeritemgroup	F resetfeature
F registerlabel	F resetfontfeature
F registerlanguagefeatures	F resetfontsolution
F registerlinenumbering	F resetforcedbreak
F registermaintextcolor	F resetinjector
F registermpextensible	F resetlogfile
F registernamedlua	F resetmapfiles
F registernamespace	F resetmathattributes
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F registerpattern	F resetparallel

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F resetsynonyms	F second
F resettimer	F selectstructureblock
F resettrackers	F set_extensible_data
F resolvedemoji	F setadaptive
F restartcounter	F setalternate
F restartsubcounter	F setautoprefix
F restorecounter	F setbackgroundrowdata
F restorecurrentattributes	F setboxglyph
F restorenote	F setboxline
F restoreobject	F setbreakpoints
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F reversevboxcontent	F setcharacteraligndetail
F revivefeature	F setcharactercasing
F rightmathkern	F setcharactercleaning
F romannumerals	F setcharacterkerning
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F rounded	F setcharacterstripping
F roundedfill	F setclosedocumentaction
F roundedoutline	F setclosepageaction
F ruby	F setcolormodel
F ruleoptioncodestring	F setcolumnsetarea
F runcontextjob	F setcolumnsetlines
F safechar	F setcolumnsetmvl
F samplefile	F setcolumnsetpresent
F saveboxresource	F setcolumnsetproperties
F savebuffer	F setcolumnsetstart
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F savecurrentattributes	F setcomparingtext
F savecurrentvalue	F setcounter
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F savedlistprefixednumber	F setdestinationattribute
F savedlisttitle	F setdigitsmanipulation
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F setsubcounter
F settagcodepoint
F settagcombination
F settagcombinationpair
F settagconstruct
F settagdelimitedsymbol
F settagdescriptionindex
F settagfigure
F settagfloat
F settagformulacontent
F settaggedmetadata
F settaggingcomment
F settaggingoption
F settaggingpresets
F settaghighlight
F settagitem
F settagitemgroup
F settaglist
F settagmarginanchor
F settagmargintext
F settagmpgraphic
F settagnotation
F settagnotationsymbol
F settagparagraph
F settagproperty
F settagpublication
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F settagsubsentencesymbol
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F setupinsertion
F setuplinenumbering
F setupsynctex
F setupusermetadata
F setupviewerlayer
F setvisual
F setvisualfont
F setvisuallayer
F setvisuals
F setvsizecolumnset
F setxmpfile
F shiftmatrixornaments
F shiftparshape
F shipoutpage
F showarray
F showassignerror
F showattributes
F showbits
F showboxinbuffer
F showbtxdatasetauthors
F showbtxdatasetcompleteness
F showbtxdatasetfields
F showbtxentry
F showbtxfields
F showbtxhashedauthors
F showbtxtables
F showbtxvariants
F showchardata
F showcounter
F showdirectives
F showdiscretionaries
F showexperiments
F showfontparameters
F showhyphenatedinlist
F showhyphenationtrace
F showinjector

F showjustification	F startmatrix
F showlogcategories	F startmirroring
F showluatables	F startpageblock
F showluatokens	F startparbuilder
F showmacrostack	F startprerollpageblock
F showmessage	F startproduct
F showpagelist	F startproject
F showparagraphshape	F startregime
F showprofiledmacros	F startrotation
F showstructure	F startruby
F showtrackers	F startscaling
F silliness	F startsectionlevel
F simplealign	F startstream
F simplecases	F starttext
F simplematrix	F startviewerlayer
F sin	F step
F sind	F stopactualtext
F sl	F stopalternativetext
F spaceddigits	F stopchemical
F spacefactorcodestring	F stopclipping
F spaceskipcodestring	F stopcollectingmath
F special	F stopcolorset
F specificationoptioncodestring	F stopcomponent
F specifiedfont	F stopenvironment
F specifiedfontsize	F stopfontsolution
F specifiedfontspec	F stopgraphicgroup
F splitfilename	F stoplocalcomponent
F splitsamplefile	F stopmarkpages
F spotcolorname	F stopmatrix
F spotcolorparent	F stopmirroring
F spotcolorvalue	F stoppageblock
F squid_check	F stopparbuilder
F startactualtext	F stopprerollpageblock
F startalternativetext	F stopproduct
F startchemical	F stopproject
F startclipping	F stopregime
F startcollectingmath	F stoprotation
F startcolorset	F stopscaling
F startcomponent	F stopsectionlevel
F startenvironment	F stopstream
F startfontsolution	F stoptext
F startgraphicgroup	F stopviewerlayer
F startlocalcomponent	F storejavascriptcode
F startmarkpages	F storejavascriptpreamble

F storenote
F storeregister
F strc_tags_document_pop
F strc_tags_document_push
F strc_tags_get_element_tag
F strc_tags_parcounter_pop
F strc_tags_parcounter_push
F strc_tags_set_aspect
F strc_tags_set_element_user_properties
F strc_tags_start
F strc_tags_start_chained
F strc_tags_start_detail
F strc_tags_start_ignore
F strc_tags_start_userdata
F strc_tags_stop
F stringtoorientation
F stripinserts
F structureautocatcodedget
F structureblockuservariable
F structurecatcodedget
F structuregivencatcodedget
F structurenumber
F structuretitle
F structureuservariable
F structurevariable
F subcountervalue
F subsubcountervalues
F subtocolumnsetmvl
F subtocolumnsetmvlbalance
F subtractfeature
F svghashed
F sync
F synccolor
F synccolorclone
F synccolorcount
F synchronizelocalanchors
F synchronizemarking
F synchronizesteps
F synchronizestream
F synctexblockfilename
F synctexdisable
F synctexpause
F synctexpopline
F synctexpushline

F synctexresetfilename
F synctexresume
F synctexsetfilename
F synonymfirstuserpage
F synonymmeaning
F synonymname
F synonympages
F synonymuserpages
F systemlog
F tabl_ntb_get_sec
F tabl_ntb_set_sec
F tagmfunctionlab
F tagmfunctionlabattribute
F tan
F tand
F textdir
F textime
F tf
F thebox
F thefirstcharacter
F themaxboxwidth
F theremainingcharacters
F tightfitcompensation
F timestring
F tobigpoints
F tobit
F tobits
F tochar
F tohexa
F toorientation
F totalofstring
F tounicharnum
F towholebigpoints
F transliterate
F transliteratebuffer
F transliterated
F transliteratedbuffer
F transliterationexception
F traverseblock
F traversemath
F triggerpagebuilder
F truefilename
F truefontname
F type

F typebuffer

F typefile

F uchar

F uchexnumber

F uchexnumbers

F undefinechemical

F unicodechar

F unihex

F unit

F unloadlanguage

F unstripinserts

F unsupportedcs

F useMPlibrary

F useanyfile

F useanyfileonce

F useboxresource

F usecolors

F usecomponent

F useenvironment

F usefigurebase

F usefile

F useimageresource

F usejavascriptpreamble

F usejavascriptscripts

F uselibrary

F uselist

F useluamodule

F useluatable

F usemathpluginlibrary

F usemodules

F usepath

F useproduct

F useproject

F usereferences

F useregister

F usesubpath

F usesymbols

F usetransliteration

F useurl

F usezipfile

F utfchar

F utflower

F utfmathclass

F utfmathcommand

F utfmathcommandfiller

F utfmathfiller

F utfmathstretch

F utfshape

F utfstrip

F utfupper

F uuid

F vboxlisttohbox

F verbose

F vpackbox

F vpackedbox

F way

F weekday

F weekdayname

F widthofstring

F widthuptohere

F write

F writeline

F writestatus

F writestring

F x_table_c

F x_table_cleanup

F x_table_construct

F x_table_create

F x_table_finish_row

F x_table_flush

F x_table_init_construct

F x_table_init_reflow_height

F x_table_init_reflow_height_option

F x_table_init_reflow_width

F x_table_init_reflow_width_option

F x_table_next_row

F x_table_next_row_option

F x_table_r

F x_table_reflow_height

F x_table_reflow_width

F x_table_set_construct

F x_table_set_reflow_height

F x_table_set_reflow_width

F xmladdindex

F xmlaftersetup

F xmlall

F xmlappendsetup

F xmlapplyselectors

F xmlatt

F xmlattdef

F xmlattribute

F xmlattributedef

F xmlbadinclusions

F xmlbeforesetup

F xmlchainatt

F xmlchainattdef

F xmlchecknamespace

F xmlcommand

F xmlconcat

F xmlconcatrange

F xmlcontext

F xmlcount

F xmlcssmappedstylevalue

F xmlcssstylevalue

F xmldelete

F xmldepth

F xmldirect

F xmldirectives

F xmldirectivesafter

F xmldirectivesbefore

F xmldisplayverbatim

F xmldoif

F xmldoifatt

F xmldoifelse

F xmldoifelseatt

F xmldoifelseempty

F xmldoifelseselfempty

F xmldoifelsetext

F xmldoifempty

F xmldoifnot

F xmldoifnotatt

F xmldoifnotempty

F xmldoifnotselfempty

F xmldoifnottext

F xmldoifselfempty

F xmldoiftext

F xmlelement

F xmlfileline

F xmlfilename

F xmlfilter

F xmlfilterlist

F xmlfirst

F xmlflush

F xmlflushcontext

F xmlflushlinewise

F xmlflushpure

F xmlflushsetups

F xmlflushspacewise

F xmlflushtext

F xmlformulatobuffer

F xmlfunction

F xmlgetindex

F xmlinclude

F xmlincludeoptions

F xmlinclusion

F xmlinclusionbase

F xmlinclusions

F xmlindex

F xmlinlineverbatim

F xmlinstalldirective

F xmllast

F xmllastatt

F xmllastmatch

F xmllastpar

F xmlloadbuffer

F xmlloaddata

F xmlloaddirectives

F xmlloadentities

F xmlloadfile

F xmlmain

F xmlmatch

F xmlname

F xmlnamespace

F xmlnonspace

F xmlpar

F xmlparam

F xmlpath

F xmlpopmatch

F xmlpos

F xmlprependsetup

F xmlpure

F xmlpushmatch

F xmlraw

F xmlrawtex

F xmlrefatt

F xmlregisterns

F	xmlremapname		F	read
F	xmlremapnamespace		B	usecache
F	xmlremovesetup		F	write
F	xmlresetinjectors		**context**	function
F	xmlresetsetups		F	bc
F	xmlsave		F	bgroup
F	xmlsetatt		F	char
F	xmlsetattribute		F	concat
F	xmlsetcommandtonone		D	conditionals
F	xmlsetcommandtotext		F	cssdimension
F	xmlsetentity		F	ctxescape
F	xmlsetinjectors		F	ctxescaped
F	xmlsetpar		F	direct
F	xmlsetparam		F	egroup
F	xmlsetsetup		F	escape
F	xmlsnippet		F	escaped
F	xmlstartraw		F	firstofoneargument
F	xmlstarttiming		F	firstoftwoarguments
F	xmlstopraw		F	fprint
F	xmlstoptiming		F	getlogger
F	xmlstrip		F	glyph
F	xmlstripanywhere		F	gobbleoneargument
F	xmlstripeverything		F	latelua
F	xmlstripnolines		F	loadfile
F	xmlstripped		F	loadviafile
F	xmlstrippednolines		D	modes
F	xmltag		F	newindexer
F	xmltexatt		F	newtexthandler
F	xmltexentity		F	newverbosehandler
F	xmltext		F	nr
F	xmltobuffer		F	par
F	xmltobuffertextonly		F	popcatcodes
F	xmltobufferverbose		F	poplogger
F	xmltofile		F	printlines
F	xmltoparameters		F	printtable
F	xmlverbatim		F	protect
F	xmlwithindex		F	pushcatcodes
F	year		F	pushlogger
containers	table		F	rule
F	cleanname		F	runfile
F	content		F	runstring
F	define		F	safechar
F	is_usable		F	secondoftwoarguments
F	is_valid		F	setconditional

F setfontid
F setmode
F setsystemmode
F settracing
F settrialtypesettingmethod
F space
F sprint
F startcollecting
F step
F stepwise
F stopcollecting
D systemmodes
F tobuffer
D tokenizedcs
F tolines
F trialtypesetting
F unprotect
F utfchar
F viafile

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F A
F A:es
F A:ru
F A:sl
F AK
F Alphabetic
F Alphabetic:es
F Alphabetic:ru
F Alphabetic:sl
F Character
F Characters
F I
F KA
F KR
F R
F RK
F Romannumerals
F Russiannumerals
F Sloveniannumerals
F Spanishnumerals
F Word
F Words
F a
F a:es

F a:ru
F a:sl
F abjadnodotnumerals
F abjadnumerals
F alphabetic
F alphabetic:es
F alphabetic:ru
F alphabetic:sl
F character
F characters
F chineseallnumerals
F chinesecapnumerals
F chinesedatenumerals
F chinesenumerals
F chr
F chrs
F cn
F cn-a
F cn-c
F cn-d
F convert
F decimals
F define
F gregorian_to_hebrew
F gregorian_to_jalali
F hebrewnumerals
F hexstringtonumber
F i
F isleapyear
F jalali_to_gregorian
F lchexnumber
F lchexnumbers
F leapyear
F lower
F max
F maxchrs
F nicenumber
F nofdays
F number
F numbers
F octnumber
F octstringtonumber
F ordinal
F r

F	romannumerals		F	glob
F	russiannumerals		F	globdirs
D	sequences		F	globfiles
F	settime		F	globpattern
F	sloveniannumerals		F	ls
F	spaceddigits		F	makedirs
F	spanishnumerals		F	mkdirs
F	textime		F	pop
F	toabjad		F	push

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F	toabjad
F	tochinese
F	tohebrew
F	toroman
F	totime
F	uchexnumber
F	uchexnumbers
F	upper
F	weekday
F	word
F	words

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- F close
- F create
- F isyieldable
- F resume
- F running
- F status
- F wrap
- F yield

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- F load
- F preparedfile
- D prepfiles
- F resolve

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- F getinfo
- F sethook
- F traceback

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- F collectpattern
- F current
- F expandlink
- F expandname
- F found

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- D data
- F default
- F disable
- F enable
- F list
- S name
- F register
- F report
- F reset
- F show
- F value
- F values

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- D arguments
- F getargument
- F getfilename
- F pdf_cleanup_cidsets
- F pdf_cleanup_procsets
- F pdf_identify_content
- F pdf_serialize_content
- F pdf_strip_content
- F pdf_strip_page
- F setargument
- F setcommandline
- F setdefaultargument
- F setenvironments
- F setfilename
- F setfilenames
- F setmodes
- F setmodules
- D variables

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- F variable

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F applyanchor

F applyorientation

F convert

F enable

F finalize

F gethpos

F gethvrpos

F getpos

F getrpos

F getvpos

F initialize

F install

N lmtxversion

F outputfilename

F report

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F getoctaveloops

F getoctavemethods

F getoctavestatus

F getoctavevariants

F newoctave

F octave

F octavebytemap

F perlinnoise

F simplexangle

F simplexdetail

F simplexnoise

F stepoctave

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D arguments

D basicengines

N currentrun

F definefilefallback

F definefilesynonym

D engineflags

S filename

D filesynonyms

N forcedruns

F getargument

F globfiles

S homedir

B initex

B initexmode

F initializearguments

F initializefilenames

S inputfilebarename

S inputfilename

S inputfilesuffix

S jobfilefullname

S jobfilename

S jobfilesuffix

N kindofrun

N lmtxmode

F loadexamodes

F loadluafile

F luafile

F luafilechunk

S luatexengine

N luatexfunctionality

S luatexverbose

N luatexversion

N maxnofruns

S oldhome

D originalarguments

S outputfilename

S ownbin

S ownmain

S ownname

S ownpath

B prerollrun

D rawarguments

F reconstructcommandline

F relativepath

F setargument

F splitarguments

S suffix

F texfile

S texmfos

S texos

S texroot

F truefilename

F useluamodule

F usemodules

D validengines

S version

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D data				F include
F default				D includers
F disable				F initialize
F enable				D loaded
F list				D localpaths
S name				D magics
F register				F mergegoodies
F report				N nofmissing
F reset				N nofprocessed
F show				D order
F value				D paths
F values				D patterns
figures	table			F pop
F applyratio				B preferquality
F badname				D programs
D bases				F push
F bitmapimage				F qrcode
N boxnumber				F registerpattern
F bytepalette				F registerresource
D cachepaths				F registersuffix
F check				D remappers
D checkers				D resources
D conversions				F scale
D converters				F set
F current				F setconversion
N defaultdepth				F setlookups
N defaultheight				F setorder
B defaultsearch				F setpaths
N defaultwidth				D suffixes
F done				D used
F dummy				**file**	table
D existers				F addsuffix
F exists				F basename
D formats				F checksum
D found				F collapsepath
F get				F copy
F getinfo				F dirname
F getpdfinfo				F expandname
F getrealpage				F extname
F guess				F is_qualified_path
F guessfromstring				F is_readable
F hash				F is_rootbased_path
D identifiers				F is_writable

F	isreadable	
F	iswritable	
F	join	
F	joinpath	
F	loadchecksum	
F	nameonly	
F	nametotable	
F	needs_updating	
F	needsupdating	
F	pathpart	
F	readdata	
F	removesuffix	
F	replacesuffix	
F	reslash	
F	robustname	
F	savechecksum	
F	savedata	
F	size	
F	splitbase	
F	splitname	
F	splitpath	
F	suffix	
F	suffixes	
F	suffixesonly	
F	suffixonly	
F	syncmtimes	
F	withinbase	

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F	getposition
F	read2dot14
F	readbytes
F	readbytetable
F	readcardinal1
F	readcardinal1le
F	readcardinal2
F	readcardinal2le
F	readcardinal3
F	readcardinal3le
F	readcardinal4
F	readcardinal4le
F	readcardinaltable
F	readcline
F	readcstring
F	readfixed2

F	readfixed4
F	readinteger1
F	readinteger1le
F	readinteger2
F	readinteger2le
F	readinteger3
F	readinteger3le
F	readinteger4
F	readinteger4le
F	readintegertable
F	setposition
F	skipposition
F	writecardinal1
F	writecardinal1le
F	writecardinal2
F	writecardinal2le
F	writecardinal3
F	writecardinal3le
F	writecardinal4
F	writecardinal4le

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F	analysemethod
F	checkedpagefloat
F	collect
F	consult
F	flush
F	getvariable
F	hasstacked
F	nofstacked
F	pop
F	push
F	resave
F	save
F	stacked

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F	addcharacters
F	addquality
F	current
F	define
F	getfont
F	getfontdimen
F	getfontfields
F	getfontspec
F	getmathcharacterfields

F	getmathindex	N	LUAVERSION
F	getmathspec	F	SAVEDREQUIRE
F	getparameterfields	F	assert
F	gettextcharacterfields	F	collectgarbage
F	id	F	dimen
F	max	F	dofile
F	nextid	F	error
F	setfont	F	getmetatable
F	setfontdimen	F	inspect
F	xscaled	F	ipairs
F	yscaled	F	load
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F	current	F	loadfile
F	currentid	F	loadstring
F	definetypeface	F	next
F	enhanceid	F	optionalrequire
D	expansions	F	pairs
D	formats	F	pcall
F	getalternate	F	print
F	getindices	F	rawequal
F	getkern	F	rawget
F	getmultiple	F	rawlen
F	getsubstitution	F	rawset
F	infofont	F	require
F	mode	F	select
D	names	F	setinspector
D	nulldata	F	setmathparameters
D	protrusions	F	setmetatable
F	registersanitizer	D	texconditionals
F	reserveid	D	texconstants
F	toeffect	D	texifs
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F	dummy	D	texmodes
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N	CONTEXTLMTXMODE	F	todecimal
N	LUAFORMAT	F	tonumber
N	LUAMAJORVERSION	F	tostring
N	LUAMINORVERSION	F	type
S	LUATEXENGINE	F	unpack
N	LUATEXFORMATID	F	warn
N	LUATEXFUNCTIONALITY	F	xpcall
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N	LUATEXVERSION	N	CONTEXTLMTXMODE

N LUAFORMAT	F tonumber
N LUAMAJORVERSION	F tostring
N LUAMINORVERSION	F type
S LUATEXENGINE	F unpack
N LUATEXFORMATID	F warn
N LUATEXFUNCTIONALITY	F xpcall

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S LUATEXVERBOSE	F bpsize
N LUATEXVERSION	F identify
N LUAVERSION	F registerpdfcompactor
F SAVEDREQUIRE	F registerpdffont

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F assert	F compress
F collectgarbage	F compressed
F dimen	F decompress
F dofile	F load
F error	F save
F getmetatable	F suffix

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F inspect	F getprofile
F ipairs	F mathnested
F load	F mathprocess
D loaders	F mathstep
F loadfile	F snapindeed
F loadstring	F snaplist
F next	F traversecharmethod
F optionalrequire	F traverseglyphmethod
F pairs	F traversehorizontal
F pcall	F traversevertical

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F print	F check
F rawequal	F checksize
F rawget	F copy
F rawlen	F create
F rawset	F embed
F require	F embedfromstore
F select	F fetchdata
F setinspector	F print
F setmathparameters	F resetdata
F setmetatable	F resetstore
D texconditionals	F scan
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D texifs	F storedata
D texisdefined	F totable
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F toboolean	
F todecimal	

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D linkedlists

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F getmessage

F getnamespace

F getsetupstring

D hashedsetups

F implement

F interfacedcommand

F knownscanner

F message

F nameofscanner

F registernamespace

F registerscanner

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F setconstant

F setcount

F setdimen

F setelement

F setformat

F setmacro

F setmessage

F setmessages

F settranslation

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U stderr

U stdin

U stdout

F tmpfile

F type

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F comment

F disablesave

F getrandomseed

F	initialize		F	getnumber
F	load		F	goodiefiles
F	loadother		F	hyphenate
B	pack		F	installed
N	packversion		F	installhandler
F	register		F	loadable
F	save		F	loadwords
N	version		F	nofflattened
kpse	**table**		D	numbers
language	**table**		F	pdflanguage
F	clean		F	postexhyphenchar
F	clearhyphenation		F	posthyphenchar
F	clearpatterns		F	preexhyphenchar
F	current		F	prehyphenchar
F	gethjcode		D	registered
F	has_language		F	serializediscretionary
F	hyphenate		F	setexceptions
F	hyphenation		F	setgoodieshandler
F	hyphenationmin		F	setoptions
F	id		F	setpatterns
F	new		F	setsynonym
F	patterns		F	setwordhandler
F	postexhyphenchar		F	showdiscretionaries
F	posthyphenchar		F	strippedgoodiewords
F	preexhyphenchar		F	tolang
F	prehyphenchar		F	unload
F	sethjcode		N	version
F	setwordhandler		F	visualizediscretionaries
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F	addgoodiesdata		F	getcanvas
F	addgoodiesfile		F	getpagedimensions
F	associate		F	setupcanvas
D	associated		**lfs**	**table**
F	association		F	attributes
D	counters		F	chdir
F	current		F	currentdir
D	data		F	dir
D	decimals		F	isdir
F	define		F	isfile
F	explicithyphen		F	isfound
F	exportlanguage		F	isreadabledir
F	flatten		F	isreadablefile
F	getdata		F	iswriteabledir
F	getmetadata		F	iswriteablefile

F	link	F	pv
F	mkdir	F	report
F	mkdirs	F	reset
F	modification	F	result
F	readlink	F	set
F	rmdir	F	show
F	setexecutable	F	stripcss
F	symlink	F	tv
F	symlinktarget	F	type
F	touch	F	urlescape
F	walkdir	F	variable

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D	basictex
D	builtin
D	extralua
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F	convert
F	convertfile
F	convertstring
F	einject
F	eprint
F	escape
F	finalized
F	finject
F	fprint
F	get
F	getvariables
F	htmfile
F	include
F	initialize
F	inject
F	lmxfile
F	loadedfile
F	make
F	new
F	popupfile
F	print

F	application
F	categories
F	direct
F	disable
F	enable
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F	flush
F	loggingerrors
F	messenger
F	new
F	newline
F	poplogfile
F	poptarget
F	pushlogfile
F	pushtarget
F	registerfinalactions
F	report
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F	resetlogfile
F	setformats
F	setformatters
F	setlogfile
F	setmessenger
F	setprocessor
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F	settranslations
F	show

F	start_page_number		F	commentsymbols
F	start_run		F	compressdata
F	starterrorlogging		F	compresslevel
F	startfilelogging		F	constant
F	status		F	copyarray
F	stop_page_number		F	copyboolean
F	stoperrorlogging		F	copyconstant
F	stopfilelogging		F	copydictionary
F	subdirect		F	copyfloat
F	subreport		F	copyinteger
F	system		F	copynumber
F	texerrormessage		F	copystring
F	writer		F	copyunicode
lpdf		table	F	deferredobject
F	action		F	delayedobject
F	adddocumentcolorspace		F	destinationspecification
F	adddocumenttextgstate		F	dictionary
F	adddocumentpattern		F	docstring
F	adddocumentshade		F	escaped
F	addtocatalog		F	finalizedocument
F	addtoinfo		F	finalizepage
F	addtonames		F	finalizesignature
F	addtopageattributes		F	finishtransparencycode
F	addtopageresources		F	flushfonts
F	addtopagesattributes		F	flushgroup
F	addxmpinfo		F	flushobject
F	annotationspecification		F	flushstreamfileobject
F	array		F	flushstreamobject
F	attachmentsymbols		D	formats
F	boolean		F	frombytes
F	border		F	fromeight
F	checkedkey		F	frompdfdoc
F	checkedresources		F	fromsixteen
F	checkedvalue		F	getcatalog
F	circularshade		F	getcompression
F	close		F	getfontname
F	cmykcode		F	getfontobjectnumber
F	collectedresources		F	getformatoption
F	color		F	getinfo
F	colorspace		F	getmatrix
D	colorspaceconstants		F	getnofpages
F	colorspec		F	getpageproperties
F	colorvalue		F	getpagereference
F	colorvalues		F	getpagetags

F getpos	F registersignature
F gettaggingstatus	F replacexmpinfo
F gettrailerid	F reserveobject
F getversion	F rgbcode
F getxformname	F rotationcm
F graycode	F setcompression
F hasmatrix	F setencryption
F immediateobject	F setpageorder
F includeimage	F setpagestate
F initialize	F setpagetag
F injectxmpinfo	F setutfstringmode
F insertxmpinfo	F setversion
F lastreferredpage	F sharedobject
F layerreference	F shareobject
F limited	F shareobjectreference
F linearshade	F splitsixteen
F literal	F spotcode
F majorversion	F stream
F makenametree	F string
F minorversion	F supportedformats
F noffontregistries	F tocidset
F nofpages	F toeight
F null	F topdfdoc
F number	F topermissions
F object	F tosixteen
F objectcompresslevel	F transparency
F pagereference	F transparencycode
F patternstream	F transparencyvalue
F pdfcolor	F unicode
F pdftimestamp	D usedfontstreams
F preparesignature	F verbose
F print	**lpeg** table
F procset	F B
B protectresources	F C
F quads	F Carg
F rectangle	F Cb
F reference	F Cc
F registerannotation	F Cf
F registerdestination	F Cg
F registerdocumentfinalizer	F Cmt
F registerfontmethod	F Cp
F registerinitializer	F Cs
F registerpagefinalizer	F Ct
F registerpattern	F P

F R	
F S	
F UP	
F UR	
F US	
F V	
F afterprefix	
F anywhere	
F append	
F balancer	
F beforesuffix	
F checkedsplit	
F containsws	
F counter	
F endstripper	
F finder	
F firstofsplit	
F frontstripper	
F instringchecker	
F is_lpeg	
F keeper	
F locale	
F match	
F oneof	
D patterns	
F pcode	
F print	
F ptree	
F replacer	
F secondofsplit	
F setmaxstack	
F setutfcasers	
F split	
F splitat	
F splitter	
F stripper	
F times	
F tsplitat	
F tsplitter	
F type	
F utfR	
F utfchartabletopattern	
F utfreplacer	
S version	

lua   table

- F addnibble
- D bytedata
- F callbytecode
- F comparekeys
- F finalizeinitex
- N firstbytecode
- F get_functions_table
- F getallkeys
- F getbytecode
- F getcheckedkeys
- F getcurrenttime
- F getdebuginfo
- F getexitcode
- F getfunctionstable
- F getnibble
- F getnumerickeys
- F getpreciseseconds
- F getpreciseticks
- F getruntime
- F getstacktop
- F getstartupfile
- F getstringkeys
- F getversion
- N lastbytecode
- D messages
- F newindex
- F newtable
- D numbers
- F protectglobal
- F registercode
- F registeredcodes
- F registerglobal
- F registerinitexfinalizer
- F registername
- F setbytecode
- F setexitcode
- F setnibble
- S startupfile
- F subnibble
- S version

luac   table

- F inspect
- F print

luatex	table		F doifnotempty
F abort			F doifnottext
F cleanup			F doiftext
F cleanuptempfiles			F element
F currentfile			F elements
F currentlevel			D entities
F currenttotal			F fileline
F poprunstate			F filename
F pushrunstate			F filter
F registerdumpactions			F filterlist
F registerpageactions			F first
F registerstartactions			F flush
F registerstopactions			F flushlinewise
F registertempfile			F flushsetups
N starttime			F flushspacewise
F wrapup			F get_id
lxml	table		F getid
F addindex			F getindex
F all			F id
F applyfunction			U idsplitter
F applyselectors			F ifatt
F att			F ifattempty
F attribute			F include
F badinclusions			F inclusion
F chainattribute			F inclusions
F checkindex			F index
F collected			F inlineverbatim
F command			F installsetup
F concat			F last
F concatrange			F lastatt
F content			F lastmatch
F context			F lastpar
F convert			F load
F count			F loadbuffer
F delete			F loaddata
F depth			F main
F direct			F match
F displayverbatim			F name
F doif			F namespace
F doifelse			F nonspace
F doifelseempty			F par
F doifelsetext			F param
F doifempty			F parameter
F doifnot			F path

F popmatch	F toverbatim
F pos	F verbatim
F position	F withindex
F pure	D xmltexhandler
F pushmatch	
F raw	**math** table
F rawroot	F abs
F rawtex	F acos
F refatt	F asin
F register	F atan
F registerentity	F atan2
F removesetup	F ceil
F replace	F ceiling
F resetcdata	F cos
F resetsetups	F cosd
F resolvedentity	F cosh
F root	F deg
F save	F div
F serialize	F even
F setaction	F exp
F setatt	F floor
F setattribute	F fmod
F setcdata	F frexp
F setcommandtonone	N huge
F setcommandtotext	N initialseed
F setpar	F ldexp
F setparam	F log
F setparameter	F log10
F setsetup	F max
F snippet	N maxinteger
F splitid	F min
F startraw	N mininteger
F startunescaped	F mod
F stopraw	F modf
F stopunescaped	F odd
F store	N pi
F strip	F pow
F stripped	F rad
F tag	F random
F texatt	F randomseed
F text	F round
F tobuffer	F setrandomseedi
F tofile	F sin
F toparameters	F sind
	F sinh

F sqrt	F markblobindexdone
F tan	F overloadparameters
F tand	F preset
F tanh	N privatebase
F tointeger	F registerextensible
F type	F registersimplematrix
F ult	F registerverboselabel
mathematics table	F remapalphabets
F addfallbacks	F renderextensible
F addvariant	F renderset
D alphabets	F resetattributes
D alternatives	F scaleparameters
F beforepassingfonttotex	F setextensibledata
F big	F setmathsymbol
D boldmap	D sets
D charactersets	F setsnapping
F checkaftercopyingfont	F setvariant
D classes	F strutcode
D classnames	D styles
D codes	F syncboth
F define	F syncname
F dimensions	F syncstyle
F disablecollecting	F toengineclass
F enablecollecting	F toname
F extensiblecode	F tostyle
D extensibles	F tweakaftercopyingfont
N extrabase	F tweakbeforecopyingfont
F fallbackstyleattr	F utfmathaccent
F familyname	F utfmathclass
F functiontype	F utfmathcommand
D gaps	F utfmathfiller
F getblobindex	F utfmathstretch
F getboth	F variantcode
F getdomainname	F variantcount
F getextensibledata	F virtualize
F getmathblob	D virtualized
F getoptionallabel	**md5** table
F getstyle	F HEX
F gettextblob	F dec
F getverboselabel	F hex
F horizontalcode	F sum
F initializeparameters	F sumHEXA
F makefont	F sumhexa
D mapremap	**metapost** table

F	checkformat	F	isobject
F	checktracingonline	S	lastlog
F	cm	F	load
F	colorinitializer	F	maketext
F	convert	F	mesh
F	currentmpx	N	n
F	currentmpxstatus	F	newlogger
S	defaultformat	N	nofruns
S	defaultinstance	F	nofscriptruns
S	defaultmethod	F	nvformat
F	directrun	F	pdfliterals
F	escaped	F	pluginactions
D	extensiondata	F	popformat
F	filterclippath	F	popscriptrunner
F	flush	F	popvariable
F	flushnormalpath	F	popvariables
F	format_number	F	preparetextextsdata
F	format_string	F	process
F	formatnumber	F	processing
F	getbackendoption	F	processplugins
F	getbendtolerance	F	pushformat
F	getbuffer	F	pushscriptrunner
F	getclippath	F	pushvariable
F	getextensions	F	pushvariables
F	getextradata	B	quitonerror
F	gethashentries	B	reducetogray
F	getinstancebyname	F	registerdirect
F	getinstanceinfo	F	registerscript
F	getinstancenames	F	registertokens
F	getjobdata	F	remappedtext
F	getmovetolerance	F	remaptext
F	getparameter	F	reporterror
F	getparameterpreset	F	reportsvgfonts
F	getparameterset	F	reset
F	getrecord	F	resetbackendoptions
F	getstatistics	F	resetlastlog
F	gettext	F	resetplugins
F	gettolerance	F	run
F	graphic	F	runinternal
F	graphic_base_pass	F	runscript
F	hascurvature	F	scanparameters
F	includesvgbuffer	F	scriptindex
F	includesvgfile	F	setbendtolerance
F	installplugin	F	setbuffer

F	setextensions	F	qpwrp
F	setlogging	F	report
F	setmovetolerance	F	stuff
F	setoutercolor	F	unb64
F	setparameter	F	unqp
F	setparameterset	F	wrap
F	setrecord	F	wrp

```
D core-dat                      D font-lua
D core-sys                      D font-map
D driv-shp                      D font-mpf
D file-mod                      D font-mps
D file-syn                      D font-nod
D font-afk                      D font-ogr
D font-agl                      D font-one
D font-aux                      D font-onr
D font-cff                      D font-osd
D font-chk                      D font-ota
D font-cid                      D font-otc
D font-col                      D font-otd
D font-con                      D font-oth
D font-ctx                      D font-oti
D font-def                      D font-otj
D font-dsp                      D font-otl
D font-enc                      D font-oto
D font-enh                      D font-otr
D font-fbk                      D font-ots
D font-fmp                      D font-ott
D font-hsh                      D font-oup
D font-imp-checks               D font-pat
D font-imp-combining            D font-prv
D font-imp-compound             D font-san
D font-imp-digits               D font-sel
D font-imp-dimensions           D font-shp
D font-imp-effects              D font-sol
D font-imp-italics              D font-syn
D font-imp-ligatures            D font-tfm
D font-imp-math                 D font-tpk
D font-imp-notused              D font-trt
D font-imp-properties           D font-ttf
D font-imp-quality              D font-txt
D font-imp-reorder              D font-vfc
D font-imp-scripts              D font-vir
D font-imp-spacekerns           D good-ctx
D font-imp-tex                  D good-gen
D font-imp-text                 D good-ini
D font-imp-tracing              D good-mth
D font-imp-tweaks               D grph-bmp
D font-imp-unicode              D grph-con
D font-ini                      D grph-epd
D font-lig                      D grph-fil
D font-log                      D grph-img
```

```
D grph-inc                          D lpdf-xmp
D grph-pat                          D lxml-css
D grph-raw                          D lxml-dir
D grph-rul                          D lxml-ent
D grph-trf                          D lxml-ini
D grph-u3d                          D lxml-mms
D java-ini                          D lxml-sor
D lang-cnt                          D lxml-tex
D lang-def                          D math-act
D lang-dis                          D math-ali
D lang-exc                          D math-dim
D lang-hup                          D math-ext
D lang-hyp                          D math-fbk
D lang-ini                          D math-fnt
D lang-lab                          D math-frc
D lang-rep                          D math-ini
D lang-tra                          D math-map
D lang-txt                          D math-mps
D lang-url                          D math-noa
D lang-wrd                          D math-pre
D libs-imp-curl                     D math-rad
D libs-imp-ghostscript              D math-ren
D libs-imp-graphicsmagick           D math-spa
D libs-ini                          D math-tag
D lpdf-ano                          D math-ttv
D lpdf-col                          D math-txt
D lpdf-epa                          D math-vfu
D lpdf-epd                          D meta-blb
D lpdf-fix                          D meta-fnt
D lpdf-fix-imp-contents             D meta-fun
D lpdf-fix-imp-fonts                D meta-imp-txt
D lpdf-fld                          D meta-ini
D lpdf-fmt                          D meta-lua
D lpdf-grp                          D meta-nod
D lpdf-img                          D meta-pdf
D lpdf-ini                          D meta-tex
D lpdf-lmt                          D mlib-ctx
D lpdf-mis                          D mlib-fio
D lpdf-ren                          D mlib-int
D lpdf-rul                          D mlib-lmp
D lpdf-sig                          D mlib-lmt
D lpdf-tag                          D mlib-lua
D lpdf-u3d                          D mlib-mat
D lpdf-wid                          D mlib-mpf
```

```
D mlib-msh                                    D publ-usr
D mlib-pdf                                    D regi-ini
D mlib-pos                                    D scrn-but
D mlib-pps                                    D scrn-fld
D mlib-ptr                                    D scrn-hlp
D mlib-ran                                    D scrn-ini
D mlib-run                                    D scrn-pag
D mlib-scn                                    D scrn-ref
D mlib-snc                                    D scrn-wid
D mlib-svg                                    D scrp-cjk
D node-ali                                    D scrp-eth
D node-bck                                    D scrp-ini
D node-fnt                                    D scrp-tha
D node-par                                    D scrp-tib
D node-ref                                    D sort-ini
D node-rul                                    D sort-lan
D node-tra                                    D spac-ali
D node-typ                                    D spac-brk
D pack-obj                                    D spac-chr
D pack-ori                                    D spac-hor
D pack-rul                                    D spac-ovl
D page-blk                                    D spac-par
D page-cst                                    D spac-pas
D page-flt                                    D spac-prf
D page-ini                                    D spac-twi
D page-inj                                    D spac-ver
D page-ins                                    D strc-bkm
D page-lin                                    D strc-blk
D page-mix                                    D strc-con
D page-otr                                    D strc-doc
D page-pst                                    D strc-flt
D page-sel                                    D strc-ini
D page-str                                    D strc-itm
D phys-dim                                    D strc-lev
D publ-aut                                    D strc-lst
D publ-dat                                    D strc-mar
D publ-fnd                                    D strc-mat
D publ-inc                                    D strc-not
D publ-ini                                    D strc-num
D publ-jrn                                    D strc-pag
D publ-oth                                    D strc-ref
D publ-reg                                    D strc-reg
D publ-sor                                    D strc-rsc
D publ-tra                                    D strc-syn
```

D strc-tag	D typo-rep
D strc-usr	D typo-rub
D symb-emj	D typo-spa
D symb-ini	D typo-stc
D syst-cmp	D typo-sus
D tabl-ali	D typo-syn
D tabl-ntb	D typo-tal
D tabl-tbl	D typo-wrp
D tabl-xtb	D unic-ini
D task-ini	**mp** function
D trac-bld	F autoinject
D trac-jus	F boolean
D trac-par	F bytemap_load_from_file
D trac-riv	F cleaned
D trac-sig	F color
D trac-vis	F dataset
D type-ini	F direct
D typo-adj	F downgradebytemap
D typo-bld	F downsamplebytemap
D typo-brk	F draw
D typo-cap	F expandtex
D typo-chr	F fill
D typo-cln	F fillbytemap
D typo-dha	F flatten
D typo-dif	F flush
D typo-dig	F format
D typo-dir	F formatted
D typo-drp	F fprint
D typo-duc	F getbytemap
D typo-fkr	F getbytemapdata
D typo-fln	F getlastaddtype
D typo-hid	F graphformat
D typo-inj	F integer
D typo-itc	F lmt_function_x
D typo-krn	F lmt_glyphshape_accent
D typo-lan	F lmt_glyphshape_baseline
D typo-lbx	F lmt_glyphshape_boundingbox
D typo-man	F lmt_glyphshape_depth
D typo-mar	F lmt_glyphshape_height
D typo-ovl	F lmt_glyphshape_italic
D typo-pag	F lmt_glyphshape_llx
D typo-par	F lmt_glyphshape_n
D typo-pnc	F lmt_glyphshape_path
D typo-prc	F lmt_glyphshape_start

F lmt_glyphshape_stop	F pair
F lmt_glyphshape_usedbox	F pairpoints
F lmt_glyphshape_usedline	F path
F lmt_glyphshape_width	F pathpoints
F lmt_mesh_set	F points
F lmt_mesh_update	F processbytemap
F lmt_poisson_generate	F processingmode
F lmt_start_potrace	F quadruple
F lmt_step_potrace	F quadruplepoints
F lmt_stop_potrace	F quoted
F lmt_svg_include	F report
F loadbytemap	F setbytemap
F loadbytemapfile	F setbytemapoctave
F mesh_register	F size
F mf_blob_add	F solve
F mf_blob_dimensions	F string
F mf_blob_index	F systemmode
F mf_blob_new	F transform
F mf_blob_raw_content	F triplet
F mf_blob_raw_dimensions	F tripletpoints
F mf_blob_raw_reset	F vprint
F mf_blob_raw_toutf	**mplib** table
F mf_blob_raw_wipe	F downgradebytemap
F mf_blob_size	F downsamplebytemap
F mf_blob_width	F execute
F mf_external_figure	F expandtex
F mf_finish_saving_data	F fillbytemap
F mf_formatted_text	F finder
F mf_get_outline_text	F finish
F mf_graphic_text	F getbytemap
F mf_inject_blob	F getbytemapdata
F mf_map_move	F getcallbackstate
F mf_map_text	F getcodes
F mf_named_color	F getcolormodels
F mf_outline_text	F getfields
F mf_save_data	F gethashentries
F mf_script_index	F gethashentry
F mf_start_saving_data	F getinternalactions
F mf_stop_saving_data	F getknotstates
F mode	F getlastaddtype
F n	F getlogtargets
F newbytemap	F getobjectdata
F number	F getobjectpeninfo
F numeric	F getobjectstacking

F	getobjecttypes	F	scantransform
F	getpruneoptions	F	setbytemap
F	getresultstatus	F	setbytemapoctave
F	getscaledbits	F	settolerance
F	getscantypes	F	showcontext
F	getstates	F	skiptoken
F	getstatistics	F	solvepath
F	getstatus	F	version

nanojpeg   table

F	gettolerance
F	gettype
F	gettypes

F decode

next   function

noads   table

F	injectboolean
F	injectcmykcolor
F	injectcolor

F	getmathmode
F	process
F	processnested
F	processouter

F	injectinteger
F	injectnumber
F	injectnumeric
F	injectpair

node   table

F	injectpath
F	injectstring
F	injecttransform
F	injectvector
F	injectvectors
F	injectwhatever
F	new
F	newbytemap
F	peninfo
F	processbytemap
B	realtimelogging
F	scanboolean
F	scancmykcolor
F	scancolor
F	scanexpression
F	scaninteger
F	scannext
F	scannumber
F	scannumeric
F	scanpair
F	scanpath
F	scanpen
F	scanproperty
F	scanstring
F	scansymbol
F	scantoken

F	checkdiscretionaries
F	checkdiscretionary
F	copy
F	copylist
F	count
F	currentattributes
F	dimensions
F	effectiveglue
F	endofmath
F	family_font
F	fields
F	findattribute
F	flattendiscretionaries
F	flushlist
F	flushnode
F	free
F	getattribute
F	getcachestate
F	getfield
F	getfielderror
F	getglue
F	getnodeerrorvalues
F	getpropertiestable
F	getproperty
F	gluetostring
F	hasattribute
F	hasfield

F	hasglyph	F	usedlist
F	hpack	F	usesfont
F	hyphenating	F	vpack
F	id	F	write
F	insertafter	**nodes**	table
F	insertbefore	D	accentcodes
F	instock	F	aligned
F	intracking	F	append
F	inuse	F	apply
F	isnode	F	applyvisuals
F	iszeroglue	F	astable
F	kerning	F	basepoints
F	lastnode	D	boundarycodes
F	length	D	choicecodes
F	ligaturing	F	concat
F	makeextensible	F	copy
F	mlisttohlist	F	copy_node
F	new	F	copylist
F	protectglyph	F	countall
F	protectglyphs	F	currentattributes
F	protrusionskippable	F	delete
F	rangedimensions	D	dircodes
F	remove	D	directioncodes
F	serialized	D	directionvalues
F	setattribute	D	dirvalues
F	setfield	D	disccodes
F	setfielderror	D	discretionarycodes
F	setglue	D	fencecodes
F	setproperty	F	fields
F	show	D	fillcodes
F	size	D	fillvalues
F	slide	F	firstdirinbox
F	subtypes	F	flush
F	tail	F	flushlist
F	todirect	F	flushnode
F	tonode	D	fractioncodes
F	tostring	F	fullhpack
F	traverse	F	getattr
F	traverseid	F	getattribute
F	type	F	getboth
F	types	F	getbox
F	unprotectglyph	F	getchar
F	unprotectglyphs	F	getfield
F	unsetattribute	F	getfont

F getid

F getleader

F getlist

F getnext

F getprev

F getproperty

F getsubtype

D gluecodes

D glyphcodes

F hasattribute

F hasfield

F hpack

F idsandsubtypes

F idstostring

F insertafter

F insertbefore

F insertlistafter

F installattributehandler

F is_display_math

F isdirect

F isnode

F isnut

D kerncodes

F leftmarginwidth

F link

F linked

F list

D listcodes

F listtoutf

D literalvalues

F locate

D markcodes

D mathcodes

D mathvalues

F maxboxwidth

F new

D noadcodes

D nodecodes

F nopts

F packlist

D parcodes

D penaltycodes

F points

F prepend

F print

F pts

D radicalcodes

F rehpack

F remove

F repackhlist

F replace

F report

F rightmarginwidth

D rulecodes

F serialize

F serializebox

F serialized

F setattr

F setattribute

F setattrlist

F setboth

F setbox

F setboxtonaturalwd

F setchar

F setfield

F setfont

F setleader

F setlink

F setlist

F setnext

F setprev

F setproperty

F showboxes

F showlist

F showsimplelist

D skipcodes

F somepenalty

F somespace

F splitbox

F startofpar

F stripdiscretionaries

D subtypes

F tail

F takeattr

F takebox

F tobasepoints

F tocentimeters

F tociceros

F	todidots	F	signed	
F	todimen	F	sparseexponent	
F	toinches	F	splitdimen	
F	tomillimeters	F	to16dot16	
F	tonode	F	tobasepoints	
F	tonodes	F	tobitstring	
F	tonut	F	tocentimeters	
F	topicas	F	tociceros	
F	topoints	F	tocontext	
F	toscaledpoints	F	todidots	
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F	setspcode	B	kpse_init
F	settextdir	N	propertiessize
F	settoks	S	shell_escape
F	setuccode	**texconstants**	data table
D	shapingpenaltiescodes	**texifs**	data table
F	shiftparshape	**texio**	table
F	shipout	F	closeinput
F	showcontext	F	forceendoffile
D	snappingcodes	F	getinputindex
F	snapshotpar	F	getselectorvalues
F	sp	F	getsourcefilename
D	spacefactorcodes	F	setlogfile
D	spaceskipcodes	F	terminal
D	specialmathclasscodes	F	write
D	specificationoptioncodes	F	write_nl
F	splitbox	F	writenl
D	splitcodes	F	writeselector

F writeselectorlf	
F writeselectornl	
texisdefined	data table
texmodes	data table
texsystemmodes	data table
thirddata	table
toboolean	function
todecimal	function
token	table

F create
F expand
F expand_macro
F expandmacro
F future_expand
F futureexpand
F get_active
F get_cmdchrcs
F get_cmdname
F get_command
F get_csname
F get_cstoken
F get_dimension
F get_expandable
F get_fields
F get_flags
F get_frozen
F get_id
F get_immutable
F get_index
F get_instance
F get_integer
F get_macro
F get_meaning
F get_noaligned
F get_parameters
F get_permanent
F get_primitive
F get_protected
F get_range
F get_tok
F get_tolerant
F getactive
F getcmdchrcs
F getcmdname

F getcommand
F getcommandvalues
F getconstant
F getcsname
F getcstoken
F getdimension
F getexpandable
F getexpansion
F getfields
F getflags
F getfrozen
F getfunctionvalues
F getid
F getimmutable
F getindex
F getinstance
F getinteger
F getlength
F getmacro
F getmeaning
F getnoaligned
F getparameters
F getpermanent
F getprimitive
F getprimitives
F getprotected
F getrange
F gettok
F gettolerant
F gobble
F gobble_dimension
F gobble_integer
F gobbledimension
F gobbleinteger
F grab
F grabstring
F inhibit
F is_defined
F is_next_char
F is_token
F isactivestring
F isdefined
F isnextchar
F istoken

F locatemacro	F scan_string
F new	F scan_token
F peek_next	F scan_token_code
F peek_next_char	F scan_tokenlist
F peek_next_expanded	F scan_toks
F peeknext	F scan_value
F peeknextchar	F scan_word
F peeknextexpanded	F scanargument
F pop_macro	F scanbox
F popmacro	F scancardinal
F push_macro	F scanchar
F pushmacro	F scancmdchr
F put_back	F scancmdchrexpanded
F put_next	F scancode
F putback	F scancsname
F putnext	F scancstoken
F save_lua	F scandelimited
F savelua	F scandetokened
F scan_argument	F scandimen
F scan_box	F scandimenargument
F scan_cardinal	F scandimension
F scan_char	F scandimensionargument
F scan_cmdchr	F scanfloat
F scan_cmdchr_expanded	F scanglue
F scan_code	F scanint
F scan_csname	F scaninteger
F scan_delimited	F scanintegerargument
F scan_dimen	F scankey
F scan_float	F scankeyword
F scan_glue	F scankeywordcs
F scan_integer	F scanletters
F scan_key	F scanluacardinal
F scan_keyword	F scanluainteger
F scan_keyword_cs	F scanluanumber
F scan_letters	F scannext
F scan_luacardinal	F scannextchar
F scan_luainteger	F scannextexpanded
F scan_luanumber	F scanposit
F scan_next	F scanreal
F scan_next_char	F scanscale
F scan_next_expanded	F scanskip
F scan_real	F scanstring
F scan_scale	F scantoken
F scan_skip	F scantokencode

F	scantokenlist	**tostring**	function
F	scantokenstring	**tracers**	table
F	scantoks	F	printerror
F	scanvalue	F	printwarning
F	scanword	F	showlines
F	serialize	**trackers**	table
F	set_dimension	D	data
F	set_integer	F	default
F	set_lua	F	disable
F	set_macro	F	dumphashtofile
F	setdimension	F	enable
F	setinteger	F	list
F	setlua	S	name
F	setmacro	F	register
F	setmacrofrommark	F	report
F	setmacrotonothing	F	reset
F	skip_next	F	savehash
F	skip_next_expanded	F	show
F	skipnext	F	value
F	skipnextexpanded	F	values
F	type	**type**	function
F	undefine_macro	**typesetters**	table
F	undefinemacro	F	marksuspects
tokens	table	F	showinvisibles
F	astable	F	showsuspects
D	cache	**unpack**	function
D	commands	**updaters**	table
F	compile	F	apply
F	constant	F	register
F	create	**url**	table
F	defined	F	addscheme
F	flags	F	barepath
F	getinteger	F	construct
F	gobble	F	decode
F	isactivestring	F	encode
F	isdefined	F	escape
F	istoken	F	filename
F	new	F	hashed
F	pickup	F	hasscheme
F	popmacro	F	query
F	pushmacro	F	split
F	setinteger	F	toquery
D	values	F	unescape
tonumber	function	F	unescapeget

userdata	table		S charpattern
utf	table		F codepoint
F byte			F codes
F bytepairs			F len
F char			F offset
F characters		**utilities**	table
F chrlen		**vector**	table
F count		F add	
F filetype		F append	
F is_valid		F average	
F len		F ceiling	
F length		F checkoverlap	
F lower		F collectoverlap	
F remapper		F concat	
F replacer		F copy	
F split		F crossproduct	
F splitlines		F delete	
F sub		F determinant	
F substituter		F div	
F tocodes		F equal	
F toeight		F exchange	
F toentities		F floor	
F tostring		F get	
F totable		F getdimensions	
F upper		F getepsilon	
F ustring		F getmesh	
F utf16_to_utf8_be		F getrc	
F utf16_to_utf8_be_t		F getrow	
F utf16_to_utf8_le		F getstacking	
F utf16_to_utf8_le_t		F gettype	
F utf16_to_utf8_t		F homogenize	
F utf32_to_utf8_be		F identity	
F utf32_to_utf8_be_t		F inner	
F utf32_to_utf8_le		F insert	
F utf32_to_utf8_le_t		F inverse	
F utf32_to_utf8_t		F ismesh	
F utf8_to_utf16		F issingular	
F utf8_to_utf16_be		F isvector	
F utf8_to_utf16_le		F iszero	
F utf8_to_utf8_t		F meshname	
F values		F mul	
F xstring		F negate	
utf8	table		F new
F char			F normalize

F	onecolumn
F	onerow
F	product
F	remove
F	replace
F	round
F	rowechelon
F	set
F	setepsilon
F	setnext
F	setrc
F	setstacking
F	slice
F	sort
F	sub
F	swap
F	tostring
F	totable
F	transpose
F	triangulate
F	truncate
F	type

visualizers   table

D	escapepatterns
F	getspecification
F	getvisualizer
F	load
F	makenested
F	makepattern
F	newgrammar
F	newhandler
F	parsedxml
F	pattern
F	register
F	registerescapecommand
F	registerescapeline
F	registerescapepattern
S	signal
U	signalpattern
D	specifications
F	visualize
F	visualizebuffer
F	visualizefile
F	visualizestring

F	write
F	writeargument
F	writedefault
F	writeemptyline
F	writenewline
F	writespace

warn   function

xcomplex   table

F	I
F	__add
F	__div
F	__eq
F	__mul
S	__name
F	__pow
F	__sub
F	__tostring
F	__unm
F	abs
F	acos
F	acosh
F	arg
F	asin
F	asinh
F	atan
F	atanh
F	conj
F	cos
F	cosh
F	dawson
F	erf
F	erfc
F	erfcx
F	erfi
F	exp
F	i
F	imag
F	log
F	new
F	pow
F	proj
F	real
F	sin
F	sinh

F sqrt			F setprecision	
F tan			F shift	
F tanh			F sqrt	
F topair			F toengstring	
F tostring			F tonumber	
F totable			F tostring	
F voigt			F trim	
F voigt_hwhm			**xmath**	table
xdecimal	table		F acos	
F __add			F acosh	
F __band			F asin	
F __bor			F asinh	
F __bxor			F atan	
F __div			F atan2	
F __eq			F atanh	
F __idiv			F cbrt	
F __le			F ceil	
F __lt			F copysign	
F __mod			F cos	
F __mul			F cosh	
S __name			F deg	
F __pow			F erf	
F __shl			F erfc	
F __shr			F exp	
F __sub			F exp2	
F __tostring			F expm1	
F __unm			F fabs	
F abs			F fdim	
F band			F floor	
F bor			F fma	
F bxor			F fmax	
F conj			F fmin	
F copy			F fmod	
F exp			F frexp	
F getprecision			F gamma	
F ln			F hypot	
F log			N inf	
F max			F isfinite	
F min			F isinf	
F minus			F isnan	
F new			F isnormal	
F plus			F j0	
F pow			F j1	
F rotate			F jn	

F	ldexp		F	checkerror
F	lgamma		F	checknamespace
F	log		F	checkns
F	log10		F	cleansed
F	log1p		F	collect
F	log2		F	collect_elements
F	logb		F	collect_tags
F	modf		F	collect_texts
N	nan		F	collected
F	nearbyint		F	collecttexts
F	nextafter		F	compactelement
N	pi		F	content
F	pow		F	convert
F	rad		F	copy
F	remainder		F	count
F	remquo		F	cprint
F	round		S	defaultprotocol
F	scalbn		F	delete
F	sin		F	delete_element
F	sinh		F	despecialized
F	sqrt		F	each
F	tan		F	each_element
F	tanh		F	elements
F	tgamma		F	elementtocdata
F	trunc		F	empty
F	y0		D	entities
F	y1		F	erase
F	yn		F	errorhandler

xml   table

			F	escaped
F	addentitiesdoctype		F	expand
F	addspecialcode		F	fillin
F	after		F	filter
F	all		F	first
F	applylpath		F	found
F	applyselector		F	getbuffer
F	assign		F	gethandlers
F	attribute		F	gethandlersfunction
F	badinclusions		F	include
F	before		F	inclusion
F	body		F	inclusions
F	cdata		F	index
F	cdatatotext		F	inheritattributes
F	checkbom		F	inheritedconvert
F	checkedempty		F	inject

previous 359 next

F inject_element		F registerns
F inject_element_after		F reindex
F inject_element_before		F remap_name
F injectafter		F remap_namespace
F injectbefore		F remap_tag
F insert		F remapname
F insert_element		F remapnamespace
F insert_element_after		F remaptag
F insert_element_before		F rename
F insertafter		F renamespace
F insertbefore		U reparsedentitylpeg
F insertcdata		F replace
F insertcomment		F replace_element
F inspect		F resetinjectors
F is_valid		F resolvens
F kind		F root
F last		F save
F lastmatch		F selection
F load		F separate
F lpath		F serialize
F lpathcached		F serializetotext
F lpathcalls		F setcdata
F lshow		F setcomment
F makestandalone		F sethandlersfunction
F match		F setinjectors
F name		F setproperty
F newhandlers		F settings
F nodesettostring		D specialcodes
F originalload		F sprint
F package		F string
F parent		F strip
U parsedentitylpeg		F strip_whitespace
F popmatch		F stripelement
F position		F stripleadingspaces
D privatecodes		F table
F privatetoken		F text
F process		F textonly
F process_attributes		F texttocdata
F process_elements		F tocdata
F processattributes		F toelement
F pure		F tostring
F pushmatch		F totable
F raw		F toxml
F registerentity		F tprint

F traverse	F crc32
F unescaped	F decompress
U unescapedentitylpeg	F decompresssize
F unprivatized	**zip** table
F unspecialized	F closearchive
F wipe	F openarchive
F withelement	**zlib** table
F withelements	F adler32
F wrap	F compress
xpcall function	F compresssize
xzip table	F crc32
F adler32	F decompress
F compress	F decompresssize
F compresssize	

graphics (context)

backgrounds   table
   F fetchmultipar
   F pair
   F path
   F point
bitmaps   table
   F flush
   F load
   F new
   F placeholder
   F tocontext
bpsize   function
colorspaces   table
identifiers   table
   F bitmap
   F jp2
   F jpeg
   F jpg
   F png

identify   function
registerpdfcompactor   function
registerpdffont   function
synchronizers   table
   F collapse
   F collect
   F extend
   F getbottom
   F getd
   F geth
   F getkind
   F getsize
   F gettask
   F gettop
   F getw
   F getx
   F gety
   F prune

gzip (context)

compress   function   **load**   function
compressed function   **save**   function
decompress function   **suffix**   function

helper (context)

getprofile	function	**snaplist**	function
mathnested	function	**traversecharmethod**	function
mathprocess	function	**traverseglyphmethod**	function
mathstep	function	**traversehorizontal**	function
snapindeed	function	**traversevertical**	function

images (context)

check	function		B crop	
checksize	function		B media	
copy	function		B none	
create	function		B trim	
embed	function		**storedata**	function
embedfromstore	function		**totable**	function
fetchdata	function		**types**	table
keys	table		N jbig2	
print	function		N jp2	
resetdata	function		N jpg	
resetstore	function		N none	
scan	function		N pdf	
serialize	function		N png	
sizes	table		N stream	
B art			**wrap**	function
B bleed				

interactions (context)

attachments data table
fields   table
    F clone
    F define
    F defineset
    F insert
general   table
    F getidentity
    F getidentityvariable
help   table
    F collect
    F reference
    F register
javascripts   table
    F addtopreamble
    F code
    D codes
    F flushpreambles

    D functions
    D preambles
    F setpreamble
    F storecode
    F storepreamble
    F usepreamblenow
    F usescripts
linkedlists data table
pages   table
    F setpagetransition
    F setupcanvas
references   table
    F setclosedocumentaction
    F setclosepageaction
    F setopendocumentaction
    F setopenpageaction
renderings   data table

interfaces (context)

arrays	table	**namesofscanners**	table
cachedsetups	data table	**namespaces**	table
cachesetup	function	F define	
cardinals	table	F list	
checkedspecification	function	**numbers**	table
complete	data table	**registernamespace**	function
constants	data table	**registerscanner**	function
corenamespaces	data table	**scanners**	data table
currentinterface	string	**setconstant**	function
currentresponse	string	**setcount**	function
definecommand	function	**setdimen**	function
defined	function	**setelement**	function
doifelsemessage	function	**setformat**	function
elements	data table	**setmacro**	function
floats	table	**setmessage**	function
formats	data table	**setmessages**	function
getmessage	function	**settranslation**	function
getnamespace	function	**setupstrings**	data table
getsetupstring	function	**setvariable**	function
hashedsetups	data table	**showmessage**	function
implement	function	**storedscanners**	data table
integers	table	**tolist**	function
interfacedcommand	function	**translations**	data table
interfaces	table	**usednamespaces**	data table
knownscanner	function	**variables**	data table
message	function	**writestatus**	function
nameofscanner	function		

io (basic lua)

ask	function	**open**	overloaded function
bytes	function	**output**	overloaded function
characters	function	**pathseparator**	string
close	function	**popen**	overloaded function
copydata	function	**read**	function
exists	function	**readall**	function
fileseparator	string	**readnumber**	function
flush	function	**readstring**	function
gobble	function	**savedata**	function
input	overloaded function	**size**	function
lines	overloaded function	**stderr**	userdata
loadchunk	function	**stdin**	userdata
loaddata	function	**stdout**	userdata
loadlines	function	**tmpfile**	function
newreader	function	**type**	function
noflines	function	**write**	function

job (context)

comment	function
datasets	table
D collected	
F extend	
F getdata	
F setdata	
D tobesaved	
disablesave	function
embedded	table
D collected	
D tobesaved	
fileobjreferences	table
D collected	
D tobesaved	
files	table
D collected	
F context	
B forcerun	
F run	
D tobesaved	
getrandomseed	function
initialize	function
linkedlists	table
D collected	
D tobesaved	
load	function
loadother	function
meshedup	table
D collected	
D tobesaved	
objects	table
D collected	
F get	
F number	
F page	
F save	
F set	
D tobesaved	
pack	boolean
packversion	number
pagestates	table

D collected	
F countervalue	
F extend	
F realpage	
F realpageorder	
F setstate	
D tobesaved	
parwrappers	table
D collected	
D tobesaved	
positions	table
F b_column	
F b_region	
F c	
D collected	
F column	
F columnofpos	
F copy	
F depth	
F e_column	
F e_region	
F enhance	
F extra	
F get	
F getcolumndata	
F getfree	
F gethpos	
F gethvrpos	
F getpos	
F getreserved	
F getrpos	
F getsync	
F gettobesaved	
F getvpos	
F hangafter	
F hangindent	
F height	
F hsize	
N lastr	
N lastx	
N lasty	

F leftskip	F upperleft	
F lowerleft	F upperright	
F lowerright	F used	
F markregionbox	F whd	
F n	F width	
F onsamepage	F x	
F overlapping	F xy	
F p	F y	
F page	**register**	function
F paragraph	**save**	function
F parindent	**structure**	table
F position	D collected	
F r	**variables**	table
F region	D checksums	
F registerhandlers	D collected	
F replace	F getchecksum	
F rightskip	F makechecksum	
F set	F restore	
F setall	F save	
F setregionbox	F setchecksum	
F setspec	D tobesaved	
F settobesaved	**version**	number
D tobesaved		

language (basic tex)

clean	function	**id**	function
clearhyphenation	function	**new**	function
clearpatterns	function	**patterns**	function
current	function	**postexhyphenchar**	function
gethjcode	function	**posthyphenchar**	function
has_language	function	**preexhyphenchar**	function
hyphenate	function	**prehyphenchar**	function
hyphenation	function	**sethjcode**	function
hyphenationmin	function	**setwordhandler**	function

languages (context)

addgoodiesdata	function	**numbers**	data table
addgoodiesfile	function	**pdflanguage**	function
appliedoptions	table	**postexhyphenchar**	function
associate	function	**posthyphenchar**	function
associated	data table	**preexhyphenchar**	function
association	function	**prehyphenchar**	function
counters	data table	**registered**	data table
current	function	**registeredactions**	table
data	data table	**replacements**	table
decimals	data table	F add	
define	function	F addlist	
explicithyphen	function	F handler	
exportlanguage	function	F set	
flatten	function	**serializeddiscretionary**	function
frequencies	table	**setexceptions**	function
F averagecharwidth		**setgoodieshandler**	function
F getdata		**setoptions**	function
getdata	function	**setpatterns**	function
getmetadata	function	**setsynonym**	function
getnumber	function	**setwordhandler**	function
goodiefiles	function	**showdiscretionaries**	function
hjcounts	table	**strippedgoodiewords**	function
hyphenate	function	**tolang**	function
hyphenators	table	**transliteration**	table
D featuresets		F exception	
F handler		F handler	
F popmethod		F register	
F pushmethod		F set	
F setmethod		F use	
F setup		**unload**	function
F showhyphenationtrace		**urls**	table
installed	function	D characters	
installhandler	function	N lefthyphenmin	
labels	table	D mapping	
F define		B packslashes	
F split		N righthyphenmin	
loadable	function	F setcharacters	
loadwords	function	**version**	number
logger	table	**visualizediscretionaries**	function
F report		**words**	table
nofflattened	function	F check	

F disable

F enable

B enables

F found

F load

N threshold

layouts (context)

getcanvas	function	**status**	table
getpagedimensions	function	F isleftpage	
setupcanvas	function	F leftorrightpageaction	

lfs (extra lua)

attributes	overloaded function	**link**	overloaded function
chdir	overloaded function	**mkdir**	overloaded function
currentdir	function	**mkdirs**	function
dir	overloaded function	**modification**	function
isdir	overloaded function	**readlink**	function
isfile	overloaded function	**rmdir**	overloaded function
isfound	function	**setexecutable**	function
isreadabledir	function	**symlink**	function
isreadablefile	function	**symlinktarget**	function
iswriteabledir	function	**touch**	overloaded function
iswriteablefile	function	**walkdir**	function

libraries (context)

basiclua	data table	**extratex**	data table
basictex	data table	**functions**	data table
builtin	data table	**globals**	data table
extralua	data table	**optional**	data table

lmx (context)

color	function		**lmxfile**	function
convert	function		**loadedfile**	function
convertfile	function		**make**	function
convertstring	function		**new**	function
einject	function		**popupfile**	function
eprint	function		**print**	function
escape	function		**pv**	function
finalized	function		**report**	function
finject	function		**reset**	function
fprint	function		**result**	function
get	function		**set**	function
getvariables	function		**show**	function
htmfile	function		**stripcss**	function
html	table		**tv**	function

F a

F td

F th

include	function		**type**	function
inherited	table		**urlescape**	function
			variable	function
			variables	table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

initialize	function
inject	function

S color-background-blue

S color-background-body

S color-background-green

S color-background-main

S color-background-purple

S color-background-yellow

S title-default

logs (context)

application	function	**setformats**	function
categories	function	**setformatters**	function
direct	function	**setlogfile**	function
disable	function	**setmessenger**	function
enable	function	**setprocessor**	function
finalactions	function	**settarget**	function
flush	function	**settimedlog**	function
loggingerrors	function	**settranslations**	function
messenger	function	**show**	function
new	function	**start_page_number**	function
newline	function	**start_run**	function
poplogfile	function	**starterrorlogging**	function
poptarget	function	**startfilelogging**	function
private	table	**status**	function
F enablepagetiming		**stop_page_number**	function
F getpagetiming		**stoperrorlogging**	function
pushlogfile	function	**stopfilelogging**	function
pushtarget	function	**subdirect**	function
registerfinalactions	function	**subreport**	function
report	function	**system**	function
reporter	function	**texerrormessage**	function
resetlogfile	function	**writer**	function

lpdf (context)

action	function	**copystring**	function
adddocumentcolorspace	function	**copyunicode**	function
adddocumentextgstate	function	**deferredobject**	function
adddocumentpattern	function	**delayedobject**	function
adddocumentshade	function	**destinationspecification**	function
addtocatalog	function	**dictionary**	function
addtoinfo	function	**docstring**	function
addtonames	function	**encodingvalues**	table
addtopageattributes	function	N base16	
addtopageresources	function	N base85	
addtopagesattributes	function	N decoded	
addxmpinfo	function	N encoded	
annotationspecification	function	N plain	
array	function	N utf16be	
attachmentsymbols	function	N utf16le	
boolean	function	**endpoints**	table
border	function	S Div	
checkedkey	function	S Part	
checkedresources	function	S Sect	
checkedvalue	function	**epdf**	table
circularshade	function	F allcontent	
close	function	F analyzefonts	
cmykcode	function	F contentplugin	
collectedresources	function	F contenttostring	
color	function	F contenttotext	
colorspace	function	D encryptioncodes	
colorspaceconstants	data table	F expanded	
colorspec	function	F expandwidths	
colorvalue	function	F fontplugin	
colorvalues	function	F getpagecontent	
commentsymbols	function	F getstructure	
compressdata	function	F load	
compresslevel	function	F mergewidths	
constant	function	D objectcodes	
copyarray	function	F objectrange	
copyboolean	function	F objecttype	
copyconstant	function	F pageplugin	
copydictionary	function	F parsecontent	
copyfloat	function	F producer	
copyinteger	function	F unload	
copynumber	function	F verboseobject	

escaped	function	S \	
finalizedocument	function	**h_hex_4**	table
finalizepage	function	**hasmatrix**	function
finalizesignature	function	**immediateobject**	function
finishtransparencycode	function	**includeimage**	function
flags	table	**initialize**	function
flushfonts	function	**injectors**	table
flushgroup	function	F bitmap	
flushobject	function	F jp2	
flushstreamfileobject	function	F jpg	
flushstreamobject	function	F png	
fonts	table	**injectxmpinfo**	function
F color_direct		**insertxmpinfo**	function
F color_indirect		**lastreferredpage**	function
formats	data table	**layerreference**	function
frombytes	function	**limited**	function
fromeight	function	**linearshade**	function
frompdfdoc	function	**literal**	function
fromsixteen	function	**majorversion**	function
getcatalog	function	**makenametree**	function
getcompression	function	**minorversion**	function
getfontname	function	**noffontregistries**	function
getfontobjectnumber	function	**nofpages**	function
getformatoption	function	**null**	function
getinfo	function	**number**	function
getmatrix	function	**object**	function
getnofpages	function	**objectcompresslevel**	function
getpageproperties	function	**pagereference**	function
getpagereference	function	**patternstream**	function
getpagetags	function	**pdfcolor**	function
getpos	function	**pdftimestamp**	function
gettaggingstatus	function	**permissions**	table
gettrailerid	function	N access	
getversion	function	N add	
getxformname	function	N assemble	
graycode	function	N extract	
h_hex_2	table	N fillin	
S		N modify	
S		N print	
S		N quality	
S		**preparesignature**	function
S		**print**	function
S (		**procset**	function
S)		**protectresources**	boolean

quads	function	**splitsixteen**	function
rectangle	function	**spotcode**	function
reference	function	**stream**	function
registerannotation	function	**string**	function
registerdestination	function	**supportedformats**	function
registerdocumentfinalizer	function	**tocidset**	function
registerfontmethod	function	**toeight**	function
registerinitializer	function	**topdfdoc**	function
registerpagefinalizer	function	**topermissions**	function
registerpattern	function	**tosixteen**	function
registersignature	function	**transparency**	function
replacexmpinfo	function	**transparencycode**	function
reserveobject	function	**transparencygroups**	table
rgbcode	function	B none	
rotationcm	function	**transparencyvalue**	function
setcompression	function	**unicode**	function
setencryption	function	**usedcharacters**	table
setpageorder	function	**usedfontnames**	table
setpagestate	function	N dejavusansmonoboldttf-1-0-0	
setpagetag	function	**usedfontobjects**	table
setutfstringmode	function	N dejavusansmonoboldttf-1-0-0	
setversion	function	**usedfontstreams**	data table
sharedobject	function	**usedindices**	table
shareobject	function	**verbose**	function
shareobjectreference	function		

lpeg (basic lua)

B	function	**firstofsplit**	function
C	function	**frontstripper**	function
Carg	function	**instringchecker**	function
Cb	function	**is_lpeg**	function
Cc	function	**keeper**	function
Cf	function	**locale**	function
Cg	function	**match**	function
Cmt	function	**oneof**	function
Cp	function	**patterns**	data table
Cs	function	**pcode**	function
Ct	function	**print**	function
P	function	**ptree**	function
R	function	**replacer**	function
S	function	**secondofsplit**	function
UP	function	**setmaxstack**	function
UR	function	**setutfcasers**	function
US	function	**split**	function
V	function	**splitat**	function
afterprefix	function	**splitter**	function
anywhere	function	**stripper**	function
append	function	**times**	function
balancer	function	**tsplitat**	function
beforesuffix	function	**tsplitter**	function
checkedsplit	function	**type**	function
containsws	function	**utfR**	function
counter	function	**utfchartabletopattern**	function
endstripper	function	**utfreplacer**	function
finder	function	**version**	string

lua (basic tex)

addnibble	function	**getstacktop**	function
bytecode	table	**getstartupfile**	function
bytedata	data table	**getstringkeys**	function
bytedone	table	**getversion**	function
callbytecode	function	**lastbytecode**	number
comparekeys	function	**messages**	data table
finalizeinitex	function	**newindex**	function
firstbytecode	number	**newtable**	function
get_functions_table	function	**numbers**	data table
getallkeys	function	**protectglobal**	function
getbytecode	function	**registercode**	function
getcheckedkeys	function	**registeredcodes**	function
getcurrenttime	function	**registerglobal**	function
getdebuginfo	function	**registerinitexfinalizer**	function
getexitcode	function	**registername**	function
getfunctionstable	overloaded function	**setbytecode**	function
getnibble	function	**setexitcode**	function
getnumerickeys	function	**setnibble**	function
getpreciseseconds	function	**startupfile**	string
getpreciseticks	function	**subnibble**	function
getruntime	function	**version**	string

luac (extra lua)

inspect function
print function

luatex (context)

abort	function	F disable	
cleanup	function	F enable	
cleanuptempfiles	function	F finish	
currentfile	function	F isenabled	
currentlevel	function	F pause	
currenttotal	function	F popline	
poprunstate	function	F pushline	
pushrunstate	function	F registerdisabler	
registerdumpactions	function	F registerenabler	
registerpageactions	function	F resetfilename	
registerstartactions	function	F resume	
registerstopactions	function	F setfilename	
registertempfile	function	F setup	
starttime	number	F start	
synctex	table	F stop	
F blockfilename		F wrapup	
F collect		**wrapup**	function

lxml (context)

addindex	function		**filter**	function
all	function		**filterlist**	function
applyfunction	function		**first**	function
applyselectors	function		**flush**	function
att	function		**flushlinewise**	function
attribute	function		**flushsetups**	function
badinclusions	function		**flushspacewise**	function
chainattribute	function		~~**get_id**~~	~~function~~
checkindex	function		**getid**	function
collected	function		**getindex**	function
command	function		**id**	function
concat	function		**idsplitter**	userdata
concatrange	function		**ifatt**	function
content	function		**ifattempty**	function
context	function		**include**	function
convert	function		**inclusion**	function
count	function		**inclusions**	function
delete	function		**index**	function
depth	function		**inlineverbatim**	function
direct	function		**installsetup**	function
directives	table		**last**	function
F after			**lastatt**	function
F before			**lastmatch**	function
F handle			**lastpar**	function
F load			**load**	function
F setup			**loadbuffer**	function
displayverbatim	function		**loaddata**	function
doif	function		**loaded**	table
doifelse	function		**main**	function
doifelseempty	function		**match**	function
doifelsetext	function		**name**	function
doifempty	function		**namespace**	function
doifnot	function		**nonspace**	function
doifnotempty	function		**par**	function
doifnottext	function		**param**	function
doiftext	function		**parameter**	function
element	function		**path**	function
elements	function		**popmatch**	function
entities	data table		**pos**	function
fileline	function		**position**	function
filename	function		**pure**	function

pushmatch	function		**sorters**	table
raw	function			F add
rawroot	function			F compare
rawtex	function			F flush
refatt	function			F reset
register	function			F show
registerentity	function			F sort
removesetup	function			
replace	function		**splitid**	function
resetcdata	function		**startraw**	function
resetsetups	function		**startunescaped**	function
resolvedentity	function		**stopraw**	function
root	function		**stopunescaped**	function
save	function		**store**	function
serialize	function		**strip**	function
setaction	function		**stripped**	function
setatt	function		**tag**	function
setattribute	function		**texatt**	function
setcdata	function		**text**	function
setcommandtonone	function		**tobuffer**	function
setcommandtotext	function		**tofile**	function
setpar	function		**toparameters**	function
setparam	function		**toverbatim**	function
setparameter	function		**verbatim**	function
setsetup	function		**withindex**	function
snippet	function		**xmltexhandler**	data table

math (basic lua)

abs	function	**maxinteger**	number
acos	function	**min**	function
asin	function	**mininteger**	number
atan	function	**mod**	function
atan2	function	**modf**	function
ceil	function	**odd**	function
ceiling	function	**pi**	number
cos	function	**pow**	function
cosd	function	**rad**	function
cosh	function	**random**	overloaded function
deg	function	**randomseed**	function
div	function	**round**	function
even	function	**setrandomseedi**	function
exp	function	**sin**	function
floor	function	**sind**	function
fmod	function	**sinh**	function
frexp	function	**sqrt**	function
huge	number	**tan**	function
initialseed	number	**tand**	function
ldexp	function	**tanh**	function
log	function	**tointeger**	function
log10	function	**type**	function
max	function	**ult**	function

mathematics (context)

addfallbacks	function	**familyname**	function
addvariant	function	**functiontype**	function
alphabets	data table	**gaps**	data table
alternatives	data table	**getblobindex**	function
beforepassingfonttotex	function	**getboth**	function
big	function	**getdomainname**	function
boldmap	data table	**getextensibledata**	function
categories	table	**getmathblob**	function
D functions		**getoptionallabel**	function
charactersets	data table	**getstyle**	function
checkaftercopyingfont	function	**gettextblob**	function
classes	data table	**getverboselabel**	function
classnames	data table	**horizontalcode**	function
codes	data table	**initializeparameters**	function
define	function	**makefont**	function
dictionaries	table	**mapremap**	data table
D data		**markblobindexdone**	function
D defaults		**overloadparameters**	function
D groups		**preset**	function
F groupset		**presets**	table
F groupsetgroup		**privatebase**	number
F name		**registerextensible**	function
D names		**registersimplematrix**	function
F registercharacter		**registerverboselabel**	function
F registergroup		**remapalphabets**	function
F registergroupset		**renderextensible**	function
D sets		**renderings**	table
D variants		D mappings	
dimensions	function	D numbers	
disablecollecting	function	D sets	
domainlabels	table	**renderset**	function
domainnames	table	**resetattributes**	function
N default		**scaleparameters**	function
enablecollecting	function	**setextensibledata**	function
extensiblecode	function	**setmathsymbol**	function
extensibles	data table	**sets**	data table
extrabase	number	**setsnapping**	function
fallbacks	table	**setvariant**	function
F apply		**strutcode**	function
F install		**styles**	data table
fallbackstyleattr	function	**syncboth**	function

syncname	function		F fontname
syncstyle	function		F inspect
tagging	table		F keepbases
B mfenced			F kernpairs
toengineclass	function		F kerns
toname	function		F margins
tostyle	function		F message
tweakaftercopyingfont	function		F moveitalics
tweakbeforecopyingfont	function		F movelimits
tweaks	table		F parameters
F accentdimensions			F radicalbodymargins
F action			F radicaldegreeanchors
F addactuarian			F replace
F addarrows			F replacealphabets
F addbars			F replacerules
F addcomposites			F setoptions
F addequals			F setovershoots
F addfourier			F showinfo
F addmirrors			F simplifykerns
F addparts			F sortvariants
F addprivates			F staircase
F addrules			F strut
F addscripts			F substitute
F bigslots			F topanchors
F checkaccents			F tweaks
F checkspacing			F version
F copyaccents			F wipeanchors
F dimensions			F wipecues
F extendaccents			F wipeitalics
F fallbacks			F wipevariants
F fixaccents		**utfmathaccent**	function
F fixellipses		**utfmathclass**	function
F fixintegrals		**utfmathcommand**	function
F fixoldschool		**utfmathfiller**	function
F fixprimes		**utfmathstretch**	function
F fixradicals		**variantcode**	function
F fixslashes		**variantcount**	function
F fixvariants		**virtualize**	function
F flattenaccents		**virtualized**	data table

md5 (extra lua)

HEX	function	**sum**	function
dec	function	**sumHEXA**	function
hex	function	**sumhexa**	function

metapost (context)

checkformat	function
checktracingonline	function
cm	function
codes	table

N addto

N ampersand

N and

N assignment

N atleast

N begingroup

N btex

N capsule

N colon

N comma

N controls

N curl

N cycle

N definedmacro

N delimiters

N endgroup

N equals

N etex

N everyjob

N exittest

N expandafter

N fiorelse

N if

N input

N interim

N internal

N iteration

N leftbrace

N leftbracket

N leftdelimiter

N let

N macrodef

N macrospecial

N maketext

N message

N mode

N newbytemap

N newinternal

N nullary

N numeric

N of

N ofbinary

N onlyset

N parametertype

N pathconnect

N pathjoin

N plusorminus

N primarybinary

N primarydef

N property

N protection

N relax

N repeatloop

N rightbrace

N rightbracket

N rightdelimiter

N runscript

N save

N scantokens

N secondarybinary

N secondarydef

N semicolon

N setbounds

N shipout

N show

N slash

N step

N stop

N str

N string

N tag

N tension

N tertiarybinary

N tertiarydef

N thingstoadd

N to

N typename

N unary

	N undefinedcs	**gettolerance**	function
	N until	**graphic**	function
	N void	**graphic_base_pass**	function
	N with	**hascurvature**	function
	N within	**includesvgbuffer**	function
	N write	**includesvgfile**	function
colorinitializer	function	**installplugin**	function
convert	function	**isobject**	function
currentmpx	function	**knownparameters**	table
currentmpxstatus	function	**lastlog**	string
defaultformat	string	**load**	function
defaultinstance	string	**maketext**	function
defaultmethod	string	**mesh**	function
directrun	function	**metafonts**	table
escaped	function	**metafun**	table
exectime	table		F interpolate
extensiondata	data table		F topath
filterclippath	function	**mptopdf**	table
flush	function		F convertmpstopdf
flushers	table		N nofconverted
flushnormalpath	function	**n**	number
fonts	table	**newlogger**	function
	F define	**nofruns**	number
format_number	function	**nofscriptruns**	function
format_string	function	**nvformat**	function
formatnumber	function	**pdfliterals**	function
getbackendoption	function	**pluginactions**	function
getbendtolerance	function	**popformat**	function
getbuffer	function	**popscriptrunner**	function
getclippath	function	**popvariable**	function
getextensions	function	**popvariables**	function
getextradata	function	**preparetextextsdata**	function
gethashentries	function	**process**	function
getinstancebyname	function	**processing**	function
getinstanceinfo	function	**processplugins**	function
getinstancenames	function	**properties**	table
getjobdata	function	**pushformat**	function
getmovetolerance	function	**pushscriptrunner**	function
getparameter	function	**pushvariable**	function
getparameterpreset	function	**pushvariables**	function
getparameterset	function	**quitonerror**	boolean
getrecord	function	**reducetogray**	boolean
getstatistics	function	**registerdirect**	function
gettext	function	**registerscript**	function

registertokens	function		N mm	
remappedtext	function		N pc	
remaptext	function		N pt	
reporterror	function		N px	
reportsvgfonts	function	svgglyphtomp	function	
reset	function	svgshapestomp	function	
resetbackendoptions	function	svgshapestopdf	function	
resetlastlog	function	svgsplitcolor	function	
resetplugins	function	svgtomp	function	
run	function	svgtopdf	function	
runinternal	function	sxsy	function	
runscript	function	**tex**	table	
scanparameters	function	F get		
scriptindex	function	F reset		
setbendtolerance	function	F set		
setbuffer	function	F setfrombuffer		
setextensions	function			
setlogging	function	texerrors	boolean	
setmovetolerance	function	texexp	function	
setoutercolor	function	theclippath	function	
setparameter	function	tographic	function	
setparameterset	function	totable	function	
setrecord	function	types	table	
settext	function			
settolerance	function	N boolean		
setvariable	function	N cmykcolor		
showlog	boolean	N color		
showsvgpage	function	N dependent		
simple	function	N independent		
splitprescript	function	N known		
startgraphic	function	N nep		
startsvghashing	function	N numeric		
stopgraphic	function	N pair		
stopsvghashing	function	N path		
svformat	function	N pen		
svgcachefile	boolean	N picture		
svgcolorremapper	function	N protodependent		
svgfactors	table	N string		
N %		N structured		
N bp		N suffixedmacro		
N cm		N tokenlist		
N em		N transform		
N ex		N unknownboolean		
N in		N unknownnep		
		N unknownpath		
		N unknownpen		

N unknownpicture	**typesvgpage**	function
N unknownstring	**unload**	function
N unsuffixedmacro	**untagvariable**	function
N vacuous	**variables**	table

mime (context)

b64	function	**qpwrp**	function
decode	function	**report**	function
decodet	table	**stuff**	function
F base64		**unb64**	function
F quoted-printable		**unqp**	function
dot	function	**wrap**	function
encode	function	**wrapt**	table
encodet	table	F base64	
F base64		F default	
F quoted-printable		F quoted-printable	
eol	function	F text	
normalize	function	**wrp**	function
qp	function		

mp (context)

autoinject	function	**flatten**	function
aux	function	**flush**	function
F boolean		**format**	function
F color		**formatted**	function
F direct		**fprint**	function
F draw		**get**	table
F fill		F hashentry	
F flush		**getbytemap**	function
F fprint		**getbytemapdata**	function
F integer		**getlastaddtype**	function
F number		**graphformat**	function
F numeric		**inject**	function
F pair		F boolean	
F pairpoints		F cmykcolor	
F path		F color	
F pathpoints		F integer	
F points		F number	
F print		F numeric	
F quadruple		F pair	
F quadruplepoints		F path	
F quoted		F pt	
F size		F quadruplet	
F string		F string	
F transform		F transform	
F triplet		F triplet	
F tripletpoints		F vector	
F vprint		F vectors	
boolean	function	F whatever	
bytemap_load_from_file	function	F whd	
cleaned	function	F xy	
color	function	**integer**	function
dataset	function	**lmt_function_x**	function
datasets	function	**lmt_glyphshape_accent**	function
F load		**lmt_glyphshape_baseline**	function
direct	function	**lmt_glyphshape_boundingbox**	function
downgradebytemap	function	**lmt_glyphshape_depth**	function
downsamplebytemap	function	**lmt_glyphshape_height**	function
draw	function	**lmt_glyphshape_italic**	function
expandtex	function	**lmt_glyphshape_llx**	function
fill	function	**lmt_glyphshape_n**	function
fillbytemap	function	**lmt_glyphshape_path**	function

lmt_glyphshape_start	function	**numeric**	function
lmt_glyphshape_stop	function	**pair**	function
lmt_glyphshape_usedbox	function	**pairpoints**	function
lmt_glyphshape_usedline	function	**path**	function
lmt_glyphshape_width	function	**pathpoints**	function
lmt_mesh_set	function	**points**	function
lmt_mesh_update	function	**print**	function
lmt_poisson_generate	function	F boolean	
lmt_start_potrace	function	F color	
lmt_step_potrace	function	F direct	
lmt_stop_potrace	function	F draw	
lmt_svg_include	function	F fill	
loadbytemap	function	F flush	
loadbytemapfile	function	F fprint	
mesh_register	function	F integer	
mf_blob_add	function	F number	
mf_blob_dimensions	function	F numeric	
mf_blob_index	function	F pair	
mf_blob_new	function	F pairpoints	
mf_blob_raw_content	function	F path	
mf_blob_raw_dimensions	function	F pathpoints	
mf_blob_raw_reset	function	F points	
mf_blob_raw_toutf	function	F print	
mf_blob_raw_wipe	function	F quadruple	
mf_blob_size	function	F quadruplepoints	
mf_blob_width	function	F quoted	
mf_external_figure	function	F size	
mf_finish_saving_data	function	F string	
mf_formatted_text	function	F transform	
mf_get_outline_text	function	F triplet	
mf_graphic_text	function	F tripletpoints	
mf_inject_blob	function	F vprint	
mf_map_move	function	**processbytemap**	function
mf_map_text	function	**processingmode**	function
mf_named_color	function	**quadruple**	function
mf_outline_text	function	**quadruplepoints**	function
mf_save_data	function	**quoted**	function
mf_script_index	function	**report**	function
mf_start_saving_data	function	**scan**	table
mf_stop_saving_data	function	F boolean	
mode	function	F cmykcolor	
n	function	F color	
newbytemap	function	F expression	
number	function	F integer	

F	next		**setbytemap**	function
F	number		**setbytemapoctave**	function
F	numeric		**size**	function
F	pair		**skip**	table
F	path			F token
F	pen		**solve**	function
F	property		**string**	function
F	string		**systemmode**	function
F	symbol		**transform**	function
F	token		**triplet**	function
F	transform		**tripletpoints**	function
F	whatever		**vprint**	function

set   table

mplib (extra tex)

downgradebytemap	function	**injectinteger**	function
downsamplebytemap	function	**injectnumber**	function
execute	function	**injectnumeric**	function
expandtex	function	**injectpair**	function
fillbytemap	function	**injectpath**	function
finder	function	**injectstring**	function
finders	table	**injecttransform**	function
F file		**injectvector**	function
F mpstemplate		**injectvectors**	function
finish	function	**injectwhatever**	function
getbytemap	function	**new**	overloaded function
getbytemapdata	function	**newbytemap**	function
getcallbackstate	function	**peninfo**	function
getcodes	function	**processbytemap**	function
getcolormodels	function	**propertycodes**	table
getfields	function	**realtimelogging**	boolean
gethashentries	function	**scanboolean**	function
gethashentry	function	**scancmykcolor**	function
getinternalactions	function	**scancolor**	function
getknotstates	function	**scanexpression**	function
getlastaddtype	function	**scaninteger**	function
getlogtargets	function	**scannext**	function
getobjectdata	function	**scannumber**	function
getobjectpeninfo	function	**scannumeric**	function
getobjectstacking	function	**scanpair**	function
getobjecttypes	function	**scanpath**	function
getpruneoptions	function	**scanpen**	function
getresultstatus	function	**scanproperty**	function
getscaledbits	function	**scanstring**	function
getscantypes	function	**scansymbol**	function
getstates	function	**scantoken**	function
getstatistics	function	**scantransform**	function
getstatus	function	**setbytemap**	function
gettolerance	function	**setbytemapoctave**	function
gettype	function	**settolerance**	function
gettypes	function	**showcontext**	function
injectboolean	function	**skiptoken**	function
injectcmykcolor	function	**solvepath**	function
injectcolor	function	**version**	function

nanojpeg (context)

decode function

noads (context)

getmathmode function
handlers table
  F alternates
  F autofences
  F classes
  F collapse
  F dictionaries
  F export
  F families
  F fencing
  F intervals
  F kernpairs
  F makeup
  F normalize
  F numbers
  F relocate
  F render
  F showtree
  F snap
  F spacing
  F suspicious
  F tags
  F unscript
  F unstack
  F variants

process function
processnested function
processors table
processouter function

node (basic tex)

checkdiscretionaries	function
checkdiscretionary	function
copy	function
copylist	function
count	function
currentattributes	function
dimensions	function
direct	table

F addmargins
F addxoffset
F addxymargins
F addyoffset
F appendaftertail
F appendcurrenttail
F beginofmath
F checkdiscretionaries
F checkdiscretionary
F collapsing
F copy
F copylist
F copyonly
F count
F currentattributes
F dimensions
F effectiveglue
F endofmath
F exchange
F fields
F findattribute
F findattributerange
F findnode
F firstchar
F firstglyph
F firstglyphnode
F firstitalicglyph
F flattendiscretionaries
F flattenleaders
F flushlist
F flushnode
F free
F freeze

F getanchors
F getattribute
F getattributelist
F getattributes
F getboth
F getbottom
F getbottomdelimiter
F getbox
F getcachestate
F getchar
F getchardict
F getcharspec
F getchoice
F getclass
F getcontrol
F getcornerkerns
F getcurrenttail
F getdata
F getdegree
F getdelimiter
F getdenominator
F getdepth
F getdirection
F getdisc
F getdiscpart
F getexcept
F getexpansion
F getfam
F getfield
F getfielderror
F getfirstdirectioninlist
F getfont
F getfontcheck
F getgeometry
F getglue
F getglyphdata
F getglyphdimensions
F getheight
F getid
F getidsubtype
F getidsubtypenext

F getindex
F getinputfields
F getkern
F getkerndimension
F getlanguage
F getleader
F getleftdelimiter
F getlist
F getlistdimensions
F getlocalparboxstate
F getmvllist
F getnaturalwhd
F getnext
F getnodeerrorvalues
F getnodes
F getnormalizedline
F getnucleus
F getnumerator
F getoffsets
F getoptions
F getorientation
F getparstate
F getpenalty
F getpost
F getpre
F getprev
F getprime
F getpropertiestable
F getproperty
F getreplace
F getrightdelimiter
F getruledimensions
F getscale
F getscales
F getscript
F getscripts
F getshift
F getshort
F getslant
F getspeciallist
F getstate
F getsub
F getsubpre
F getsubtype

F getsup
F getsuppre
F gettop
F gettopdelimiter
F gettotal
F getusage
F getusedattributes
F getweight
F getwhd
F getwidth
F getwordrange
F getxscale
F getxyscales
F getyscale
F gluetostring
F hasattribute
F hasdimensions
F hasdiscoption
F hasfield
F hasgeometry
F hasglyph
F hasglyphoption
F hasidsubtype
F hasusage
F hpack
F hyphenating
F id
F ignoremathskip
F insertafter
F insertbefore
F insertcurrenthead
F isboth
F ischar
F ischarcheck
F ischardisc
F isdirect
F isfontcheck
F isglyph
F isitalicglyph
F isloop
F isnext
F isnextchar
F isnextcharcheck
F isnextglyph

F isnode	F setattributes
F isprev	F setattributesinlist
F isprevchar	F setboth
F isprevcharcheck	F setbottom
F isprevglyph	F setbottomdelimiter
F issimilarglyph	F setbox
F issnapped	F setchar
F isspeciallist	F setchardict
F isvalid	F setchoice
F iszeroglue	F setclass
F kerning	F setcontrol
F lastnode	F setcurrenttail
F length	F setdata
F ligaturing	F setdegree
F makeextensible	F setdelimiter
F markglyphprocessing	F setdenominator
F migrate	F setdepth
F mlisttohlist	F setdirection
F naturalhsize	F setdisc
F naturalwidth	F setdiscpart
F new	F setexcept
F newcontinuationatom	F setexpansion
F newfontcheck	F setfam
F newmathglyph	F setfield
F newtextglyph	F setfielderror
F patchattributes	F setfont
F patchparshape	F setfontcheck
F prependbeforehead	F setgeometry
F prependcurrenttail	F setglue
F protectglyph	F setglyphdata
F protectglyphs	F setheight
F protectglyphsbase	F setindex
F protectglyphsnone	F setinputfields
F protrusionskippable	F setkern
F rangedimensions	F setlanguage
F remove	F setleader
F removefromlist	F setleftdelimiter
F repack	F setlink
F reverse	F setlist
F samefontcheck	F setnext
F serialized	F setnucleus
F setanchors	F setnumerator
F setattribute	F setoffsets
F setattributelist	F setoptions

F	setorientation	
F	setpenalty	
F	setpost	
F	setpre	
F	setprev	
F	setprime	
F	setproperty	
F	setreplace	
F	setrightdelimiter	
F	setruledimensions	
F	setscale	
F	setscales	
F	setscript	
F	setscripts	
F	setshift	
F	setslant	
F	setsnapped	
F	setspeciallist	
F	setsplit	
F	setstate	
F	setsub	
F	setsubpre	
F	setsubtype	
F	setsup	
F	setsuppre	
F	settop	
F	settopdelimiter	
F	settotal	
F	setweight	
F	setwhd	
F	setwidth	
F	show	
F	size	
F	slide	
F	softenhyphens	
F	startofpar	
F	subtypes	
F	tail	
F	todirect	
F	tonode	
F	tostring	
F	tovaliddirect	
F	traverse	
F	traversechar	

F	traversecontent
F	traverseglyph
F	traverseid
F	traverseitalic
F	traverseleader
F	traverselist
F	traversepossible
F	type
F	types
F	unprotectglyph
F	unprotectglyphs
F	unsetattribute
F	unsetattributes
F	updatefirstandbotmark
F	updatefirstmarks
F	updatemarks
F	updatetopmarks
F	usedlist
F	usesfont
F	vbalance
F	verticalbreak
F	vpack
F	write
F	xscaled
F	yscaled

effectiveglue	function
endofmath	function
family_font	function
fields	function
findattribute	function
flattendiscretionaries	function
flushlist	function
flushnode	function
free	function
getattribute	function
getcachestate	function
getfield	function
getfielderror	function
getglue	function
getnodeerrorvalues	function
getpropertiestable	function
getproperty	function
gluetostring	function
hasattribute	function

hasfield	function	**setattribute**	function
hasglyph	function	**setfield**	function
hpack	function	**setfielderror**	function
hyphenating	function	setglue	function
id	function	setproperty	function
insertafter	function	show	function
insertbefore	function	**size**	function
instock	function	slide	function
intracking	function	subtypes	function
inuse	function	**tail**	function
isnode	function	**todirect**	function
iszeroglue	function	**tonode**	function
kerning	function	**tostring**	function
lastnode	function	**traverse**	function
length	function	**traverseid**	function
ligaturing	function	**type**	function
makeextensible	function	**types**	function
mlisttohlist	function	unprotectglyph	function
new	function	unprotectglyphs	function
protectglyph	function	**unsetattribute**	function
protectglyphs	function	**usedlist**	function
protrusionskippable	function	usesfont	function
rangedimensions	function	vpack	function
remove	function	**write**	function
serialized	function		

nodes (context)

accentcodes	data table	**fencecodes**	data table
adaptive	table	**fields**	function
F handlehorizontal		**fieldtypes**	table
F handlevertical		**fillcodes**	data table
F set		**fillvalues**	data table
aligned	function	**firstdirinbox**	function
append	function	**flush**	function
apply	function	**flushlist**	function
applyvisuals	function	**flushnode**	function
astable	function	**fractioncodes**	data table
basepoints	function	**fullhpack**	function
boundarycodes	data table	**getattr**	function
boxes	table	**getattribute**	function
F count		**getboth**	function
F dimensions		**getbox**	function
F direct		**getchar**	function
F dispose		**getfield**	function
F found		**getfont**	function
F prune		**getid**	function
F reset		**getleader**	function
F restore		**getlist**	function
F save		**getnext**	function
F savenode		**getprev**	function
builders	table	**getproperty**	function
choicecodes	data table	**getsubtype**	function
concat	function	**gluecodes**	data table
copy	function	**glyphcodes**	data table
copy_node	function	**handlers**	table
copylist	function	F adjusters	
countall	function	F aligncharacter	
currentattributes	function	F backgrounds	
delete	function	F backgroundspage	
destinations	table	F backgroundsvbox	
N attribute		F characters	
F handler		F checkglyphs	
dircodes	data table	F checkparcounter	
directioncodes	data table	F cleanupbox	
directionvalues	data table	F cleanuppage	
dirvalues	data table	F export	
disccodes	data table	F finalizebox	
discretionarycodes	data table	F finalizelist	

F	flatten	**is_display_math**	function
F	flattenline	**isdirect**	function
F	mathalignrelocate	**isnode**	function
F	mathmatrixornaments	**isnut**	function
F	mathmatrixrules	**kerncodes**	data table
F	migrate	**leftmarginwidth**	function
F	protectglyphs	**linefillers**	table
F	recolor	F filler	
F	show	F handler	
F	showhyphenation	F set	
F	showpreamble	**lines**	table
F	stripping	D data	
F	tabulateskip	F finalize	
F	textbackgrounds	F number	
F	unprotectglyphs	**link**	function
F	visualizehyphenation	**linked**	function
F	wipe	**list**	function
hasattribute	function	**listcodes**	data table
hasfield	function	**listtoutf**	function
hpack	function	**literalvalues**	data table
idsandsubtypes	function	**locate**	function
idstostring	function	**markcodes**	data table
injections	table	**markers**	table
F	copy	F get	
F	getligaindex	F set	
F	getthreshold	**mathcodes**	data table
F	handler	**mathvalues**	data table
F	installgetspaceboth	**maxboxwidth**	function
F	installnewkern	**migrations**	table
F	isspace	F setinserts	
F	keepcounts	F setmarks	
F	reset	**new**	function
F	resetcounts	**noadcodes**	data table
F	setcursive	**nodecodes**	data table
F	setkern	**nopts**	function
F	setligaindex	**nuts**	table
F	setmark	F addmargins	
F	setmove	F addxoffset	
F	setposition	F addxymargins	
F	setspacekerns	F addyoffset	
insertafter	function	F append	
insertbefore	function	F appendaftertail	
insertlistafter	function	F apply	
installattributehandler	function	F applyvisuals	

F	beginofmath	F	getbottom
F	checkdiscretionaries	F	getbottomdelimiter
F	checkdiscretionary	F	getbox
F	checkslide	F	getboxglue
F	collapsing	F	getchar
F	concat	F	getchardict
F	copy	F	getcharspec
F	copy_properties	F	getchoice
F	copylist	F	getclass
F	copynode	F	getcomponents
F	copyonly	F	getcornerkerns
F	copyvisual	F	getdata
F	count	F	getdegree
F	countall	F	getdelimiter
F	currentattributes	F	getdenominator
F	delete	F	getdepth
F	dimensions	F	getdirection
F	dirdimensions	F	getdisc
F	effectiveglue	F	getdiscpart
F	endofmath	F	getdiscretionary
F	exchange	F	getexcept
F	findattribute	F	getexpansion
F	findattributerange	F	getfam
F	findnode	F	getfield
F	firstchar	F	getfirstdirectioninlist
F	firstglyph	F	getfont
F	firstglyphnode	F	getfontcheck
F	firstitalicglyph	F	getgeometry
F	flattendiscretionaries	F	getglue
F	flattenleaders	F	getglyphdata
F	flush	F	getglyphdimensions
F	flushlist	F	getheight
F	flushnode	F	getid
F	free	F	getidsubtype
F	freeze	F	getidsubtypenext
F	fullhpack	F	getindex
F	getanchors	F	getinputfields
F	getattr	F	getkern
F	getattribute	F	getkerndimension
F	getattributelist	F	getlang
F	getattributes	F	getlanguage
F	getattrlist	F	getleader
F	getattrs	F	getleftdelimiter
F	getboth	F	getlist

F getlistdimensions	F getweight
F getlocalparboxstate	F getwhd
F getmiddle	F getwidth
F getmiddledelimiter	F getwordrange
F getmvllist	F getxscale
F getnaturalwhd	F getxyscales
F getnext	F getyscale
F getnormalizedline	F gluetostring
F getnucleus	F hasattribute
F getnumerator	F hasdimensions
F getoffsets	F hasdiscoption
F getoptions	F hasfield
F getorientation	F hasgeometry
F getparstate	F hasglyph
F getpenalty	F hasglyphoption
F getpost	F hasidsubtype
F getpre	F hpack
F getprev	F hyphenating
F getprime	F ignoremathskip
F getprop	F insertafter
F getreplace	F insertbefore
F getrightdelimiter	F insertlistafter
F getruledata	F is_display_math
F getruledimensions	F isboth
F getscale	F ischar
F getscales	F ischarcheck
F getscript	F isdirect
F getscripts	F isdone
F getshift	F isglyph
F getshort	F isitalicglyph
F getslant	F isnext
F getspeciallist	F isnextchar
F getstate	F isnextcharcheck
F getsub	F isnextglyph
F getsubpre	F isnode
F getsubtype	F isnut
F getsup	F isprev
F getsuppre	F isprevchar
F getsurround	F isprevcharcheck
F gettop	F isprevglyph
F gettopdelimiter	F issimilarglyph
F gettotal	F issnapped
F getusedattributes	F iszeroglue
F getvalue	F kerning

F lastnode	F setattributesinlist
F length	F setattrlist
F ligaturing	F setattrs
F link	F setattrsinlist
F linked	F setboth
F locate	F setbottom
F migrate	F setbox
F migratebox	F setboxglue
F mlisttohlist	F setchar
F naturalhsize	F setchardict
F naturalwidth	F setchoice
F nestedtracedslide	F setclass
F new	F setcomponents
F newcontinuationatom	F setdata
F newfontcheck	F setdegree
F newmathglyph	F setdelimiter
F openup	F setdenominator
F patchattributes	F setdepth
F patchparshape	F setdirection
F prepend	F setdisc
F prependbeforehead	F setdiscpart
F processranges	F setdiscretionary
F processwords	F setexcept
F protectglyph	F setexpansion
F protectglyphs	F setfam
F protectglyphsbase	F setfield
F protectglyphsnone	F setfont
F protrusionskippable	F setfontcheck
F rangedimensions	F setgeometry
F rawprop	F setglue
F reference	F setglyphdata
F rehpack	F setheight
F remove	F setinputfields
F removefromlist	F setkern
F repack	F setlang
F repackhlist	F setlanguage
F replace	F setleader
F reverse	F setleftdelimiter
F serialized	F setlink
F setanchors	F setlist
F setattr	F setmiddledelimiter
F setattribute	F setnext
F setattributelist	F setnucleus
F setattributes	F setnumerator

F	setoffsets	F	striprange
F	setoptions	F	tail
F	setorientation	F	takeattr
F	setparproperty	F	takebox
F	setpenalty	F	takelist
F	setpost	F	theprop
F	setpre	F	tonode
F	setprev	F	tonodes
F	setprime	F	tonut
F	setprop	F	tosequence
F	setreplace	F	tostring
F	setrightdelimiter	F	tracedslide
F	setruledata	F	traverse
F	setruledimensions	F	traversechar
F	setscale	F	traversecontent
F	setscales	F	traverseglyph
F	setscript	F	traverseid
F	setscripts	F	traverseitalic
F	setshift	F	traverseleader
F	setslant	F	traverselist
F	setsnapped	F	traversepossible
F	setspeciallist	F	unprotectglyph
F	setsplit	F	unprotectglyphs
F	setstate	F	unsetattribute
F	setsub	F	unsetattributes
F	setsubpre	F	untracedslide
F	setsubtype	F	updatefirstandbotmark
F	setsup	F	updatefirstmarks
F	setsuppre	F	updatemarks
F	setsurround	F	updatetopmarks
F	settop	F	usedlist
F	setvalue	F	usesfont
F	setvisual	F	verticalbreak
F	setvisuals	F	vianodes
F	setweight	F	vianuts
F	setwhd	F	vpack
F	setwidth	F	write
F	show	F	xscaled
F	slide	F	yscaled
F	softenhyphens		
F	somepenalty		
F	somespace		
F	splitbox		
F	startofpar		

packlist	function
parcodes	data table
penaltycodes	data table
plugindata	table
F finalizer	

F initializer		F process	
S name		F set	
F processor		F userrule	
points	function	**serialize**	function
pool	table	**serializebox**	function
F baselineskip		**serialized**	function
F cleanup		**setattr**	function
F directliteral		**setattribute**	function
F glyph		**setattrlist**	function
F hlist		**setboth**	function
F latelua		**setbox**	function
F leader		**setboxtonaturalwd**	function
F lineskip		**setchar**	function
F literal		**setfield**	function
F originliteral		**setfont**	function
F register		**setleader**	function
F restore		**setlink**	function
F save		**setlist**	function
F savepos		**setnext**	function
F setmatrix		**setprev**	function
F stock		**setproperty**	function
F usage		**shadows**	table
F usernode		F handler	
F vlist		F set	
prepend	function	**shifts**	table
print	function	F handler	
processors	table	F set	
F trace_glyph_run_a		**showboxes**	function
F trace_glyph_run_b		**showlist**	function
properties	table	**showsimplelist**	function
pts	function	**skipcodes**	data table
radicalcodes	data table	**snapshots**	table
references	table	F getsamples	
N attribute		F resetsamples	
F handler		F takesample	
rehpack	function	**somepenalty**	function
remove	function	**somespace**	function
repackhlist	function	**specialskipcodes**	table
replace	function	**splitbox**	function
report	function	**startofpar**	function
rightmarginwidth	function	**stripdiscretionaries**	function
rulecodes	data table	**stripping**	table
rules	table	F set	
F handler		**subtypes**	data table

tail	function		F resetproperties
takeattr	function		F rule
takebox	function		F setlist
tasks	table		F setproperties
F actions			F start
F appendaction			F stop
F disableaction		**traverse**	function
F disablegroup		**traverseid**	function
F enableaction		**typesetters**	table
F enablegroup			F hbox
F freeze			F hpack
F freezegroup			F tohbox
F new			F tohpack
F prependaction			F tonodes
F removeaction			F tovbox
F replaceaction			F tovpack
F restart			F vpack
F setaction		**unsetattribute**	function
F showactions		**upcomingproperties**	function
F table		**usedlist**	function
tobasepoints	function	**vianodes**	function
tocentimeters	function	**vianuts**	function
tociceros	function	**visualizebox**	function
todidots	function	**visualizers**	table
todimen	function		F attribute
toinches	function		F box
tomillimeters	function		F definelayer
tonode	function		F enable
tonodes	function		F getusedfont
tonut	function		F handler
topicas	function		F markfonts
topoints	function		F register
toscaledpoints	function		F registercache
tosequence	function		F setfont
tostring	function		F setlayer
totable	function		F setruledglyph
totree	function		F setvisual
toutf	function	**vpack**	function
tracers	table	**whatsitcodes**	data table
F directions		**write**	function
F fontchar			

number (context)

		to16dot16	function
	function	**tobasepoints**	function
basepoints	function	**tobitstring**	function
bytetodecimal	function	**tocentimeters**	function
compactfloat	function	**tociceros**	function
decimaltobyte	function	**tocontext**	function
dimenfactors	data table	**todidots**	function
formatted	function	**todimen**	function
formattedfloat	function	**toediths**	function
fractiontobyte	function	**toevenhex**	function
idiv	function	**toinches**	function
maxdimen	number	**tomillimeters**	function
nopts	function	**tonumberf**	function
nubasepoints	function	**tonumberg**	function
nupoints	function	**topicas**	function
percent	function	**topoints**	function
points	function	**toscaled**	function
pts	function	**toscaledpoints**	function
signed	function	**totoves**	function
sparseexponent	function	**valid**	function
splitdimen	function		

objects (context)

data	table	**page**	function
dimensions	function	**reference**	function
found	function	**register**	function
n	number	**restore**	function

optional (context)

curl   table
- F escape
- F fetch
- F getversion
- F initialize
- F unescape

foreign   table
- F abivalues
- F getbuffer
- F initialize
- F load
- F newbuffer
- F totable
- F types

ghostscript   table
- F execute
- F initialize

graphicsmagick   table
- F execute
- F getnoisetypes
- F initialize

hb   table
- F getshapers
- F getversion
- F initialize
- F loadfont
- F shapestring

imagemagick   table
- F execute
- F initialize

kpse   table
- F expand_braces
- F expand_path
- F expand_var
- F find_file
- F find_files
- F get_file_types
- F initialize
- F readable_file
- F set_program_name
- F var_value

library   table
- F load

loaded   table

lz4   table
- F compress
- F decompresssize
- F framecompress
- F framedecompress
- F initialize

lzma   table
- F compress
- F decompress
- F initialize

lzo   table
- F compress
- F decompresssize
- F initialize

mujs   table
- F dofile
- F execute
- F initialize
- F reset
- F setclosefile
- F setconsole
- F setfindfile
- F setopenfile
- F setreadfile
- F setseekfile

mysql   table
- F close
- F execute
- F getmessage
- F initialize
- F open

openssl   table
- F getversion
- F initialize
- F sign
- F verify

postgress   table
- F close

F execute

F getmessage

F initialize

F open

sqlite table

F close

F execute

F getmessage

F initialize

F open

zint table

F execute

F initialize

zstd table

F compress

F decompress

F initialize

os (basic lua)

__getenv__	function		**platform**	string
__setenv__	function		**remove**	overloaded function
binsuffix	string		**rename**	overloaded function
binsuffixes	table		**resultof**	function
bits	number		**runtime**	function
clock	function		**selfarg**	table
converttime	function		**selfbin**	string
date	overloaded function		**selfcore**	string
difftime	function		**selfdir**	string
enableansi	function		**selflink**	string
env	data table		**selfname**	string
execute	overloaded function		**selfpath**	string
exit	overloaded function		**serialwrite**	function
fulltime	function		**setenv**	overloaded function
getcodepage	function		**setexitcode**	function
getenv	overloaded function		**setlocale**	overloaded function
getnamevalues	function		**sleep**	function
gettimeofday	function		**startuptime**	function
gettypevalues	function		**time**	function
getunamefields	function		**timezone**	function
isleapyear	function		**tmpname**	function
launch	function		**today**	function
libsuffix	string		**type**	string
localtime	function		**uname**	function
name	string		**uuid**	function
newline	string		**validdate**	function
nofdays	function		**weekday**	function
now	function		**where**	function
pipeto	function		**which**	function

package (basic lua)

config	string	**loadlib**	function
cpath	string	**luapaths**	function
extralibpath	function	**path**	string
extralibpaths	function	**poplibpath**	function
extraluapath	function	**popluapath**	function
extraluapaths	function	**preload**	table
helpers	table	**pushlibpath**	function
libpaths	function	**pushluapath**	function
loaded	table	**searchers**	table
loaders	table	**searchpath**	function

pagebuilders (context)

columnsets   table
- F add
- F addmvl
- F block
- F blockrows
- F check
- F checkmvl
- F clean
- F define
- F definesub
- F delayedsheet
- F finishflush
- F flushareas
- F flushcolumn
- F goto
- F gotoslot
- F limit
- F noto
- F prepareflush
- F presetsheets
- F presetspreadsheets
- F put
- F putdirect
- F registerarea
- F registersheet
- F registerspreadsheets
- F reset
- F resetdirect

- F reshape
- F setarea
- F setextra
- F sethsize
- F sethspan
- F setlines
- F setmvl
- F setpresent
- F setproperties
- F setstart
- F shape
- F showshape
- F state
- F status
- F submvl
- F submvlbalance

injections   table
- F flushafter
- F flushbefore
- F save

mixedcolumns   table
- F cleanup
- F finalize
- F getlist
- F getrest
- F getsplit
- F setsplit

pdf (context)

immediateobj function

pdfe (extra tex)

arraytotable	function	**getnumber**	function
close	function	**getobjectrange**	function
closestream	function	**getpage**	function
dictionarytotable	function	**getpages**	function
getarray	function	**getpermissions**	function
getboolean	function	**getsize**	function
getbox	function	**getstatus**	function
getcatalog	function	**getstatusvalues**	function
getdictionary	function	**getstream**	function
getencodingvalues	function	**getstring**	function
getfieldtypes	function	**gettrailer**	function
getfromarray	function	**getversion**	function
getfromdictionary	function	**new**	function
getfromobject	function	**open**	function
getfromreference	function	**openfile**	function
getfromstream	function	**openstream**	function
getinfo	function	**pagestotable**	function
getinteger	function	**readfromstream**	function
getmemoryusage	function	**readwholestream**	function
getname	function	**type**	function
getnofobjects	function	**unencrypt**	function
getnofpages	function		

physics (context)

units table

    F registershortcut

F registerunit

D tables

pngdecode (extra tex)

applyfilter	function	**setexperiment**	function
expand	function	**splitmask**	function
frompalette	function	**tocmyk**	function
interlace	function	**togray**	function
makemask	function	**tomask**	function
palettemask	function	**transparentmask**	function
reduce	function		

posit (extra lua)

NaN	function	**exp2**	function
NaR	function	**expand**	function
__add	function	**floor**	function
__band	function	**frombyte**	function
__bor	function	**fromchar**	function
__bxor	function	**fromposit**	function
__div	function	**integer**	function
__eq	function	**log**	function
__le	function	**log10**	function
__lt	function	**log1p**	function
__mul	function	**log2**	function
__name	string	**logb**	function
__pow	function	**max**	function
__shl	function	**min**	function
__shr	function	**modf**	function
__sub	function	**new**	function
__tostring	function	**pow**	function
__unm	function	**rotate**	function
abs	function	**round**	function
acos	function	**rounded**	function
asin	function	**shift**	function
atan	function	**sin**	function
band	function	**sqrt**	function
bor	function	**tan**	function
bxor	function	**tobyte**	function
ceil	function	**tochar**	function
conj	function	**tonumber**	function
copy	function	**toposit**	function
cos	function	**tostring**	function
exp	function		

potrace (extra tex)

checked	function	**getnewfields**	function
concat	function	**getpolicyvalues**	function
contourplot	function	**getprocessfields**	function
convert	function	**new**	function
count	function	**process**	function
flush	function	**setbitmap**	function
free	function	**stripped**	function
fromfile	function	**totable**	function
getbitmap	function	**trace**	function

publications (context)

addtexentry	function	**concatstate**	function
analyze	function	**converttoxml**	function
anywhere	function	**currentspecification**	table
authorcache	data table	S author	
authorcollapsers	data table	S comment	
authorhashers	table	S copyright	
F invertedshort		S name	
F normal		S version	
F normalinverted		D virtual	
F normalshort		**datasets**	table
F sequential		**detailed**	table
F sequentialshort		**endnotes_to_btx**	function
F short		**enhancer**	table
authormap	data table	S arguments	
authortoregister	function	B dirty	
btx	table	N steps	
casters	table	**enhancers**	table
F author		F details	
F keyword		F order	
F pagenumber		F suffixes	
F range		**finder**	function
checkeddataset	function	**firstofrange**	function
citevariants	table	**found**	function
F author		**get**	function
F authornum		**getcasted**	function
F authoryear		**getdetail**	function
F authoryears		**getdirect**	function
F category		**getfaster**	function
F default		**getfield**	function
F entry		**getfuzzy**	function
F index		**getindex**	function
F keywords		**inspectors**	data table
F num		**journals**	table
F page		F abbreviated	
F short		F add	
F tag		F expanded	
F textnum		F load	
F year		F save	
collected	data table	**lastofrange**	function
components	table	**lists**	table
F author		F collectentries	

F combiinlist		**search**	function
F fetchentries		**setcategory**	function
F filterall		**setspecification**	function
F flushcombi		**singularorplural**	function
F flushentry		**sortedentries**	function
F flushtag		**sortmethods**	table
F nofregistered		**specifications**	table
F prepareentries		**splitauthor**	function
F register		**splitoneauthor**	function
F sameasprevious		**statistics**	table
F uservariable		N nofbytes	
listvariants	table	N nofdatasets	
F default		N nofdefinitions	
F index		N nofshortcuts	
F num		**tables**	table
F short		D implicits	
F tag		D origins	
load	function	D privates	
loadbibdata	function	D sets	
loaddefinitionfile	function	D specials	
loaders	table	D types	
F bbl		D virtuals	
F bib		**tags**	function
F buffer		**tracers**	table
F endnote		F showdatasetauthors	
F json		F showdatasetcompleteness	
F lua		F showdatasetfields	
F refman		F showentry	
F registercleaner		F showfields	
F xml		F showhashedauthors	
loadreplacementfile	function	F showtables	
meanings	table	F showvariants	
new	function	**typesetters**	table
okay	function	F author	
oneorrange	function	F string	
parenttag	function	**usedataset**	function
permitted	function	**usedentries**	function
prerollcmdstring	function	**writers**	table
refman_to_btx	function	F author	
resolvedname	function	F keyword	
save	function	F pagenumber	
savers	table	F range	
F bib			
F lua			

At top right: F xml

qrcodegen (context)

bitmap   function
generate   function

regimes (context)

backmapping	data table	**mapping**	data table
cleanup	function	**pop**	function
disable	function	**process**	function
enable	function	**push**	function
fromregime	function	**toregime**	function
list	function	**translate**	function

resolvers (context)

allprefixes	function	**findfiles**	function
appendhash	function	**findgivenfile**	function
automount	function	**findgivenfiles**	function
booleanvariable	function	**findlib**	function
cacheversion	string	**findpath**	function
checkedvariable	function	**findpk**	function
cleanedpathlist	function	**findtexfile**	function
cleaners	data table	**findwildcardfile**	function
cleanpath	function	**findwildcardfiles**	function
cleanpathlist	function	**formatofsuffix**	function
cleanupbinfile	function	**formatofvariable**	function
concatinators	data table	**formats**	data table
configbanner	string	**foundintree**	function
configurationfiles	function	**foundintrees**	function
dangerous	data table	**generators**	data table
datastate	function	**get_from_content**	function
decompressors	table	**getdetails**	function
F register		**getenv**	function
F unregister		**getextrapaths**	function
defaultsuffixes	table	**getfilehashes**	function
dirstatus	function	**gethashes**	function
dowithfilesandreport	function	**getownpath**	function
dowithfilesintree	function	**getreadfilename**	function
dowithpath	function	**hashers**	data table
dowithvariable	function	**homedir**	string
executers	table	**ignorelibrary**	function
expandbraces	function	**initialized**	function
expandedpathfromlist	function	**installinputfilehandler**	function
expandedpathlist	function	**installinputlinehandler**	function
expandedpathlistfromvariable	function	**jobpath**	function
expandpath	function	**jobs**	table
expandpathfromvariable	function	F collectstructure	
expansion	function	F currentcomponent	
extendtexmfvariable	function	F currentenvironment	
filtered_from_content	function	F currentproduct	
find_file	function	F currentproject	
find_files	function	F currentstructure	
findbinfile	function	F justacomponent	
findctxfile	function	F namelist	
finders	data table	D processors	
findfile	function	F productcomponent	

F usefile		**registerextrapath**	function
joinpath	function	**registerfile**	function
knownvariables	function	**registerfilehash**	function
libraries	table	**registerintrees**	function
F optionalloaded		**registermethod**	function
F validoptional		**registerzipfile**	function
load	function	**relations**	data table
loadbinfile	function	**renew**	function
loaders	data table	**renewcache**	function
loadlualib	function	**repath**	function
loadtexfile	function	**reset**	function
loadtime	function	**resetextrapaths**	function
locateformat	function	**resetresolve**	function
locators	data table	**resolve**	function
luacnffallback	string	**savers**	data table
luacnfname	string	**scandata**	function
luacnfspec	string	**scanfiles**	function
luacnfstate	string	**schemes**	table
macros	table	F cleanname	
F convertfile		F fetchstring	
F decodecomment		F fetchtable	
F enablecomment		F install	
F encodecomment		**setdynamic**	function
F preprocessed		**setenv**	function
F processmk		**showdetails**	function
F processmklx		**showpath**	function
F processmkvi		**simplescanfiles**	function
F version		**splitconfigurationpath**	function
maxreadlevel	number	**splitexpansions**	function
methodhandler	function	**splitmethod**	function
missinglibrary	function	**splitpath**	function
openbinfile	function	**stackpath**	function
openers	data table	**starttiming**	function
openfile	function	**stoptiming**	function
opentexfile	function	**suffixes**	data table
ownpath	string	**suffixmap**	data table
popextrapath	function	**suffixofformat**	function
popinputname	function	**texdatablob**	function
poppath	function	**toppath**	function
prefixes	data table	**tracers**	data table
prependhash	function	**unexpandedpath**	function
pushextrapath	function	**unexpandedpathlist**	function
pushinputname	function	**unresolve**	function
pushpath	function	**updaterelations**	function

updatescript	function	**variable**	function
uselibrary	function	**variableofformat**	function
usertypes	data table	**variableofformatorsuffix**	function
usezipfile	function	**wildcardpattern**	function
validatedpath	function		

sandbox (context)

blockrequire	function	**possiblepath**	function
disablelibraries	function	**redefine**	function
disablerunners	function	**register**	function
enable	function	**registerbinary**	function
filehandlerone	function	**registerlibrary**	function
filehandlertwo	function	**registerroot**	function
finalizer	function	**registerrunner**	function
getrunner	function	**report**	function
initializer	function	**setfilenamelogger**	function
iohandler	function	**setlogger**	function
logcalls	function	**setreporter**	function
logfiles	function	**settrace**	function
original	function	**validfilename**	function
overload	function		

scripts (context)

autofontfeature table
    F disable
    F enable
    F handler
colors data table
decomposehangul function
defaults table
    N inter_char_half_shrink_factor
    N inter_char_half_stretch_factor
    N inter_char_hangul_penalty
    N inter_char_quarter_shrink_factor
    N inter_char_quarter_stretch_factor
    N inter_char_shrink_factor
    N inter_char_stretch_factor
    N inter_word_stretch_factor
getdata function
getinjector function
getsplitter function
getstatus function

handlers data table
helpers data table
injectors data table
inserters table
    F nobreakspace_after
    F nobreakspace_before
    F space_after
    F space_before
    F zerowidthspace_after
    F zerowidthspace_before
installdataset function
installmethod function
numbertodataset data table
numbertohandler data table
reset function
set function
setstatus function
splitters data table

serial (context)

__gc	function	**open**	function
__name	string	**send**	function
__tostring	function	**tostring**	function
close	function	**write**	function

set (context)

contains function   **tonumber** function
create   function   **totable**   function
tolist   function

sha2 (extra lua)

HASH256	function		**hash256**	function
HASH384	function		**hash384**	function
HASH512	function		**hash512**	function
HEX256	function		**hex256**	function
HEX384	function		**hex384**	function
HEX512	function		**hex512**	function
digest256	function		**sum256**	function
digest384	function		**sum384**	function
digest512	function		**sum512**	function

sio (extra lua)

read2dot14	function	**readinteger1le**	function
readbytes	function	**readinteger2**	function
readbytetable	function	**readinteger2le**	function
readcardinal1	function	**readinteger3**	function
readcardinal1le	function	**readinteger3le**	function
readcardinal2	function	**readinteger4**	function
readcardinal2le	function	**readinteger4le**	function
readcardinal3	function	**readintegertable**	function
readcardinal3le	function	**tocardinal1**	function
readcardinal4	function	**tocardinal1le**	function
readcardinal4le	function	**tocardinal2**	function
readcardinaltable	function	**tocardinal2le**	function
readcline	function	**tocardinal3**	function
readcstring	function	**tocardinal3le**	function
readfixed2	function	**tocardinal4**	function
readfixed4	function	**tocardinal4le**	function
readinteger1	function		

socket (extra lua)

BLOCKSIZE	number		**sinkt**	table
_SETSIZE	number		F close-when-done	
_SOCKETINVALID	number		F default	
bind	function		F http-chunked	
choose	function		F keep-open	
connect	function		**skip**	function
connect4	function		**sleep**	function
connect6	function		**source**	function
dns	table		**sourcet**	table
F getaddrinfo			F by-length	
F gethostname			F default	
F getnameinfo			F http-chunked	
F tohostname			F until-closed	
F toip			**tcp**	function
gettime	function		**tcp4**	function
headers	table		**tcp6**	function
F lower			**tp**	table
F normalize			N TIMEOUT	
http	table		F connect	
N TIMEOUT			**try**	function
S USERAGENT			**url**	table
F genericform			F absolute	
F open			F build	
F request			F build_path	
newtry	function		F escape	
protect	function		F parse	
report	function		F parse_path	
select	function		F unescape	
sink	function			

sorters (context)

basicsorter	function		**firstofsplit**	function
comparers	table		**packch**	function
F basic			**packuc**	function
constants	table		**replacementlist**	function
S defaultdigits			**setlanguage**	function
S defaultlanguage			**sort**	function
S defaultmethod			**splitters**	table
N digitsmaximum			F utf	
N digitsoffset			**strip**	function
N ignoredoffset			**tracers**	data table
N replacementoffset			**update**	function
definitions	data table			

sparse (extra lua)

concat	function		**range**	function
get	function		**restore**	function
max	function		**set**	function
min	function		**traverse**	function
new	function		**wipe**	function

statistics (context)

benchmarktimer	function	**hastiming**	function
checkfmtstatus	function	**memused**	function
currenttime	function	**register**	function
elapsed	function	**resettiming**	function
elapsedindeed	function	**runtime**	function
elapsedseconds	function	**savefmtstatus**	function
elapsedtime	function	**show**	function
enable	boolean	**showmemory**	function
feedback	table	**showusage**	function
F info		**starttiming**	function
F processstates		**stoptiming**	function
F register		**threshold**	number
F reportstates		**timed**	function
F setstate		**tracefunction**	function
formatruntime	function		

status (basic tex)

getbalancestate	function	**getluastate**	function
getbufferstate	function	**getmarkstate**	function
getcallbackstate	function	**getmvlstate**	function
getconstants	function	**getneststate**	function
geterrorlinestate	function	**getnodestate**	function
geterrorstate	function	**getparameterstate**	function
getexpandstate	function	**getpoolstate**	function
getfilestate	function	**getreadstate**	function
getfontstate	function	**getsavestate**	function
gethalferrorlinestate	function	**getsparsestate**	function
gethashstate	function	**getstringstate**	function
gethyphenationstate	function	**gettexstate**	function
getinputstate	function	**gettokenstate**	function
getinsertstate	function	**getwarningstate**	function
getlanguagestate	function	**iocodes**	table
getlinebreakstate	function	**list**	function
getlookupstate	function	**resetmessages**	function

storage (context)

allocate	function	**noftables**	number
data	table	**register**	function
mark	function	**shared**	data table
marked	function	**storedfunctions**	data table
max	number	**strip**	boolean
min	number	**tofmodules**	number
nofmodules	number	**toftables**	number

streams (context)

collect	function	**push**	function
disable	function	**start**	function
enable	function	**stop**	function
flush	function	**synchronize**	function
initialize	function		

string (basic lua)

autodouble	function		**optionalquoted**	function
autosingle	function		**pack**	function
booleanstring	function		**packrowscolumns**	function
byte	function		**packsize**	function
bytepairs	function		**quote**	function
bytes	function		**quoted**	function
bytetable	function		**rep**	function
char	function		**replacenewlines**	function
characterpairs	function		**reverse**	function
characters	function		**split**	function
checkedsplit	function		**splitintolines**	function
chrtointeger	function		**splitlines**	function
collapsespaces	function		**splitup**	function
containsws	function		**strip**	function
count	function		**sub**	function
dectointeger	function		**texhashed**	function
dump	function		**texnewlines**	function
escapedpattern	function		**tformat**	function
escapedquotes	function		**toHEX**	function
f6	function		**toboolean**	function
find	function		**tobytes**	function
format	function		**tocontext**	function
formatter	function		**todec**	function
formatters	function		**todimen**	function
fullstrip	function		**tohex**	function
gmatch	function		**tonodes**	function
gsub	function		**topattern**	function
hashes	table		**totable**	function
hextocharacters	function		**tounicode16**	function
hextointeger	function		**toutf**	function
is_boolean	function		**toutf16**	function
is_empty	function		**toutf32**	function
itself	function		**toutf8**	function
len	function		**tracedchar**	function
limit	function		**unescapedquotes**	function
linetable	function		**unpack**	function
longtostring	function		**unquote**	function
lower	function		**unquoted**	function
match	function		**upper**	function
nospaces	function		**utf16toutf8**	function
octtointeger	function		**utfcharacter**	function

utfcharacters	function	**utfvalue**	function
utfcharactertable	function	**utfvalues**	function
utflength	function	**utfvaluetable**	function
utfpadd	function	**valid**	function
utfpadding	function	**wordsplitter**	function
utftabletostring	function		

structures (context)

atlocation	function		F reset	
blocks	table		F restart	
D collected			F restore	
F define			F save	
F empty			F set	
F print			F setlevel	
F save			F setoffset	
F select			F setown	
F setstate			F setstate	
D states			F setvalue	
D tobesaved			F subs	
F uservariable			D tobesaved	
bookmarks	table		F value	
F finalize			F way	
F flatten			**currentsectionnumber**	function
F installhandler			**descriptions**	table
F merge			**documents**	table
S method			D data	
F overload			F initialize	
F place			F preset	
F register			F reset	
F setopened			**floats**	table
F setup			**formulas**	table
counters	table		**helpers**	table
F add			F analyze	
F analyze			F formulanumber	
F check			F merged	
D collected			F page	
F compact			F pageofinternal	
F converted			F prefix	
F currentvalue			F prefixlastpage	
D data			F prefixpage	
F define			F simplify	
F first			F title	
F get			F touserdata	
F last			**inserts**	table
F next			F attach	
F prev			D data	
F previous			F define	
F raw			F detach	
F record			F getdata	

F getlocation		F rawuserpage
F getname		F realpage
F getnumber		F reorder
F nofdetached		F reordered
F setlocation		F savedlistnumber
F setup		F savedlistprefixednumber
D stored		F savedlisttitle
itemgroups	table	D sectionblocks
D collected		F size
D tobesaved		F title
lists	table	D tobesaved
F addto		F use
F analyze		F userdata
F bookmark		F userpage
D cached		F uservalue
D collected		**marks** table
F discard		F number
F enhance		F title
F external		**notes** table
F filter		F checkpagechange
F formulanumber		F define
F getresult		F flushrange
F groupindex		F get
F hasnumberdata		F getdeltapage
F haspagedata		F getinternal
F hastitledata		F getn
F integrate		F getstate
F iscached		F getstorecount
D kinds		F getstoreflushed
F label		F hascontent
F location		F internal
D names		F internalid
F number		F listindex
D ordered		D numbers
F page		F ordered
F popnesting		F postpone
F prefix		F resetpostponed
F prefixednumber		F restore
F prefixedpage		F save
F process		F setstate
D pushed		D states
F pushnesting		F store
F rawnumber		**pages** table
F rawrealpage		F allmarked

F analyze

D collected

F fraction

F getlabels

F in_body

F is_odd

F mark

F marked

F markedlist

N nofpages

F number

F on_right

F save

D tobesaved

F toranges

references   table

F analyze

F checked

F checkedfile

F checkedfileorurl

F checkedprogram

F checkedrealpage

F checkedurl

D collected

U componentsplitter

F currentmetadata

F currentorder

D currentset

F define

D defined

D derived

F enhance

D executers

F export

F filter

F filterdefault

D filters

D flaginternals

F forceinnermode

F from

D functions

F get

F getcurrentlabel

F getcurrentmetadata

F getcurrentprefixspec

F getinnermethod

F getinternalcachedlistreference

F getinternallistreference

F getinternalreference

F getoutermethod

D handlers

F identify

F import

F inject

F injectcurrentset

S innermethod

F integrate

D internals

F load

F loadpresets

F mark

S outermethod

F pagefromhash

D pages

U prefixsplitter

D productdata

F realpageofpage

F referenced

U referencesplitter

D referred

F referredpage

F registerfinalizer

F registerinitializer

F registerpage

F reset

D runners

F set

F setandgetattribute

F setinternalreference

F setlinkmethod

F setnextinternal

F setnextorder

F setreferencerealpage

F setstructure

D specials

F splitcomponent

F splitprefix

F splitreference

F	synchronizepage		F	getcurrentlevel
D	tobereferred		F	getlevel
D	tobesaved		F	getnumber
D	tracedpages		F	internalreference
D	usedinternals		D	levelmap
D	usedviews		D	levels
F	valid		F	matchingtilldepth

registers   table   F numberatdepth

F	analyze		F	numbers
D	collected		F	popblock
F	compare		F	prefixedconverted
F	define		F	pushblock
F	enhance		F	register
F	extend		D	registered
F	filter		F	reportstructure
F	filtercollected		F	save
F	finalize		F	set
F	findinternal		F	setblock
F	flush		F	setchecker
F	get		F	setentry
F	integrate		F	setinitialblock
F	prepare		F	setlevel
F	process		F	setnumber
F	setmethod		F	showstructure
F	sort		F	structuredata
F	store		F	title
D	tobesaved		D	tobesaved
F	tweak		F	typesetnumber
F	unique		F	userdata
F	use		B	verbose
F	userdata			

sections   table   **sets**   table

F	autodepth		F	define
F	cct		F	get
D	collected		F	getall
F	current		D	setlist

specials   table

F	currentblock		D	collected
F	currentid		F	retrieve
F	currentlevel		F	store
F	currentsectionindex		D	tobesaved

synonyms   table

F	depthnumber		F	analyzed
F	finddata		D	collected
F	findnumber		F	compare
F	fullnumber			

F	define	F	initializeexport
F	enhance	D	labels
F	filter	F	last
F	finalize	F	lastinchain
F	firstuserpage	F	localexport
F	flush	F	locatedtag
F	isshown	D	overloads
F	isused	F	pop
F	meaning	D	properties
F	pages	F	push
F	prepare	F	registerextradata
F	process	F	registermetadata
F	register	F	restart
F	registershown	F	setaspect
F	registerused	F	setattributehash
F	reset	F	setcodepoint
F	resetall	F	setcombination
F	resetlist	F	setcombinationpair
F	resetshown	F	setconstruct
F	resetused	F	setdescriptionindex
F	sort	F	setfigure
F	synonym	F	setfloat
D	tobesaved	F	setformulacontent
F	userpages	F	sethighlight

tags   table

F	analyze	F	setitem
F	checknesting	F	setitemgroup
F	current	F	setmpgraphic
F	elementtag	F	setnotation
F	enabled	F	setnotationsymbol
F	exportbox	F	setparagraph
F	finishexport	F	setproperty
F	getdescriptionindex	F	setpublication
F	getextradata	F	setregister
F	getid	F	setsorting
F	getitemgroup	F	setsynonym
F	getmetadata	F	settablecell
F	getoption	F	settabulatecell
F	getsorting	F	settagdelimitedsymbol
F	getsynonym	F	settagsubsentencesymbol
F	gettablecell	F	setupexport
F	gettabulatecell	F	setuserproperties
F	gettagreferencedescription	D	specifications
F	handler	F	start
		F	stop

F strip
D taglist

table (basic lua)

append	function	**pack**	function
are_equal	function	**prepend**	function
combine	function	**print**	function
compact	function	**remove**	function
concat	function	**reverse**	function
contains	function	**reversed**	function
copy	function	**save**	function
count	function	**sequenced**	function
create	function	**serialize**	function
derive	function	**setmetatablecall**	function
deserialize	function	**setmetatableindex**	function
fastcopy	function	**setmetatableindices**	function
fastserialize	function	**setmetatablenewindex**	function
filtered	function	**sort**	function
flattened	function	**sorted**	function
fromhash	function	**sortedhash**	function
getn	function	**sortedhashkeys**	function
has_one_entry	function	**sortedhashonly**	function
hashed	function	**sortedindexonly**	function
identical	function	**sortedkeys**	function
imerge	function	**sortedpairs**	function
imerged	function	**sparse**	function
insert	function	**strip**	function
is_empty	function	**sub**	function
is_simple_table	function	**swapped**	function
keys	function	**tocontext**	function
load	function	**tocsv**	function
loweredkeys	function	**tofile**	function
makeweak	function	**tohandle**	function
merge	function	**tohash**	function
merged	function	**toxml**	function
mirrored	function	**unique**	function
move	function	**unpack**	function

tex (basic tex)

amcode	table	**discoptioncodes**	data table
attribute	table	**discpartcodes**	data table
attributetracking	function	**dontcomplain**	function
automigrationcodes	data table	**doublescriptoptioncodes**	data table
autoparagraphcodes	data table	**enableprimitives**	function
badness	function	**error**	function
badnessmodecodes	data table	**expandasvalue**	function
balance	function	**experiments**	data table
balancecallbackcodes	data table	**extraprimitives**	function
boundaries	table	**fatalerror**	function
D names		**fillcodes**	data table
D numbers		**flagcodes**	data table
F system		**fontidentifier**	function
box	table	**fontname**	function
boxoptioncodes	data table	**forcehmode**	function
boxresources	table	**forceinputstatefile**	function
F getbox		**forceinputstateline**	function
F getdimensions		**fprint**	function
F save		**frozenparcodes**	data table
F use		**get**	function
breakcodes	data table	**getadjustoptionvalues**	function
buildcodes	data table	**getalignmentcontextvalues**	function
catcode	table	**getamcode**	function
cccode	table	**getappendadjustcontextvalues**	function
charactercontrolcodes	data table	**getappendmigratecontextvalues**	function
charactertagcodes	data table	**getattribute**	function
chardef	function	**getautomigrationvalues**	function
classoptioncodes	data table	**getautoparagraphvalues**	function
codes	table	**getbadnessmodevalues**	function
conditionals	data table	**getbalancecallbackvalues**	function
constants	data table	**getbalanceparameterfields**	function
count	table	**getbalanceresultfields**	function
cprint	function	**getbalancestepoptionvalues**	function
ctdcatcodes	number	**getbox**	function
ctxcatcodes	number	**getboxdir**	function
definefont	function	**getboxoptionvalues**	function
delcode	table	**getboxresourcebox**	function
dimen	table	**getboxresourcedimensions**	function
dimensiondef	function	**getbreakcontextvalues**	function
directioncodes	data table	**getbuildcontextvalues**	function
directives	data table	**getcardinalvalue**	function

getcatcode	function	**getinsertcontent**	function
getcccode	function	**getinsertdepth**	function
getcharactercontrolvalues	function	**getinsertdistance**	function
getcharactertagvalues	function	**getinsertheight**	function
getcount	function	**getinsertlimit**	function
getcurrentmvl	function	**getinsertmaxplaced**	function
getdelayedgluelocationvalues	function	**getinsertmultiplier**	function
getdelayedgluetargetvalues	function	**getinsertoptionvalues**	function
getdelcode	function	**getinsertsplitvalues**	function
getdelcodes	function	**getinsertwidth**	function
getdimen	function	**getintegervalue**	function
getdimensionvalue	function	**getinteraction**	function
getdirectionvalues	function	**getinteractionmodes**	function
getdiscoptionvalues	function	**getiovalues**	function
getdiscpartvalues	function	**getkerneloptionvalues**	function
getdoublescriptoptionvalues	function	**getkernoptionvalues**	function
getemptyparagraphmodevalues	function	**getlargestusedmark**	function
geterrorrecoverymodevalues	function	**getlccode**	function
geterrorvalues	function	**getlinebreakparameterfields**	function
getfillvalues	function	**getlinebreakresultfields**	function
getflagvalues	function	**getlinebreakstatevalues**	function
getfloat	function	**getlinedir**	function
getfontdimension	function	**getlist**	function
getfontoffamily	function	**getlistanchorvalues**	function
getfrozenparvalues	function	**getlistfields**	function
getglue	function	**getlistgeometryvalues**	function
getglueoptionvalues	function	**getlistsignvalues**	function
getglyphdata	function	**getlocalbox**	function
getglyphdiscvalues	function	**getlocalboxlocations**	function
getglyphoptionvalues	function	**getlocallevel**	function
getglyphprotectionvalues	function	**getmark**	function
getglyphscales	function	**getmarknames**	function
getglyphscript	function	**getmath**	function
getglyphstate	function	**getmathclassoptionvalues**	function
getgroupvalues	function	**getmathcode**	function
gethccode	function	**getmathcodes**	function
gethelptext	function	**getmathcontrolvalues**	function
gethmcode	function	**getmathdir**	function
gethyphenationvalues	function	**getmathgluevalues**	function
getiftypes	function	**getmathoptionvalues**	function
getinputstatefile	function	**getmathparametervalues**	function
getinputstateline	function	**getmathscriptordervalues**	function
getinputstatemode	function	**getmathscriptsmodevalues**	function
getinsertcategoryvalues	function	**getmathstylenamevalues**	function

getmathstylevalues	function	**getsfcode**	function
getmathstylevariant	function	**getshapingpenaltiesvalues**	function
getmathsurroundvalues	function	**getskip**	function
getmathvariantpresets	function	**getsnappingvalues**	function
getmathvariantvalues	function	**getspacefactorvalues**	function
getmeasure	function	**getspaceskipvalues**	function
getmissingcharactervalues	function	**getspcode**	function
getmode	function	**getspecialmathclassvalues**	function
getmodevalues	function	**getspecification**	function
getmuglue	function	**getspecificationoptionvalues**	function
getmuskip	function	**gettextcontrolvalues**	function
getmvloptionvalues	function	**gettextdir**	function
getnest	function	**gettoks**	function
getnestfields	function	**getuccode**	function
getnestlevel	function	**getuleaderlocationvalues**	function
getnoadoptionvalues	function	**getunitclassvalues**	function
getnormalizelinevalues	function	**getusedmarks**	function
getnormalizeparvalues	function	**getvsplitcontextvalues**	function
getnospacesmodevalues	function	**glue**	table
getoutputactive	function	**glueoptioncodes**	data table
getpacktypevalues	function	**glyphdisccodes**	data table
getpagecontextvalues	function	**glyphoptioncodes**	data table
getpagestate	function	**groupcodes**	data table
getpagestatevalues	function	**hashtokens**	function
getparagraphfillmodevalues	function	**hccode**	table
getparagraphoptionvalues	function	**hmcode**	table
getparametermodevalues	function	**hshcatcodes**	number
getparcontextvalues	function	**hyphenationcodes**	data table
getpardataspecifications	function	**ifs**	data table
getpardir	function	**inicatcodes**	number
getparmodevalues	function	**insertcategorycodes**	data table
getparstate	function	**insertoptioncodes**	data table
getparstatefields	function	**insertsplitcodes**	data table
getpartriggervalues	function	**integerdef**	function
getpenaltyoptionvalues	function	**interactioncodes**	data table
getpositvalue	function	**isattribute**	function
getprepoststatevalues	function	**isbox**	function
getprimitivelegacies	function	**iscount**	function
getprimitiveorigins	function	**isdefined**	function
getprotrusionboundaryvalues	function	**isdimen**	function
getregisterindex	function	**isfloat**	function
getruleoptionvalues	function	**isglue**	function
getrunstate	function	**ismuglue**	function
getrunstatevalues	function	**ismuskip**	function

isprintable	function		N maxbytecodeindex
isskip	function		N maxcalculatedbadness
istoks	function		N maxcardinal
lastnodetype	function		N maxcharactercode
lccode	table		N maxdatavalue
linebreak	function		N maxdimen
linebreakstatecodes	data table		N maxdimenregisterindex
listanchorcodes	data table		N maxdimension
listgeometrycodes	data table		N maxdimensionregisterindex
lists	table		N maxendlinecharacter
listsigncodes	data table		N maxfloatregisterindex
luacatcodes	number		N maxfontadjustshrinkfactor
magicconstants	table		N maxfontadjuststep

N maxfontadjuststretchfactor

S activecharacternamespace

N maxfunctionreference

N allfitnessvalues

N maxglueregisterindex

N assumedmathcontrol

N maxhalfvalue

N awfulbad

N maxhalfword

N decentcriterion

N maxinteger

N defaultcatcodetable

N maxintegerregisterindex

N defaultcharactercontrol

N maxintregisterindex

N defaultdeadcycles

N maxlimitedscale

N defaulteqnogapstep

N maxmarkindex

N defaulthangafter

N maxmathclasscode

N defaultoutputbox

N maxmathfamilyindex

N defaultpredisplaygap

N maxmathscalingfactor

N defaultrule

N maxmathstylescale

N defaultspacefactor

N maxmuglueregisterindex

N defaulttolerance

N maxmvlindex

N deplorable

N maxnewlinecharacter

N ejectpenalty

N maxnofbytecodes

N ignoredepth

N maxnofcatcodetables

N infinitebad

N maxnoffitnessvalues

N infinitepenalty

N maxnoffonts

N infinity

N maxnoflanguages

N largewidthexcess

N maxnofmarks

N loosecriterion

N maxnofmathfamilies

N mathallclass

N maxquarterword

N mathbeginclass

N maxscalefactor

N mathdefaultpenalty

N maxsizeofword

N mathendclass

N maxspacefactor

N mathfirstuserclass

N maxtoksregisterindex

N mathlastuserclass

N maxtwinlength

N maxattributeregisterindex

N mincardinal

N maxboxregisterindex

N mindatavalue	
N mindimen	
N mindimension	
N minhalfword	
N mininfinity	
N mininteger	
N minmvlindex	
N minnoffitnessvalues	
N minquarterword	
N minscalefactor	
N minspacefactor	
N nocatcodetable	
N null	
N nullflag	
N nullfont	
N onebp	
N presetrulethickness	
N runningrule	
N smallstretchability	
N specialspacefactor	
N texeqtbsize	
N texhashprime	
N texhashsize	
N texmemorymode	
N two	
N undefinedmathparameter	
N unity	
N unusedattributevalue	
N unusedmathfamily	
N unusedmathstyle	
N unusedscriptvalue	
N unusedstatevalue	
N zeroglue	

mathchardef	function
mathcode	table
mathcontrolcodes	data table
mathoptioncodes	data table
mathparametercodes	data table
mathscriptordercodes	data table
mathscriptsmodecodes	data table
modelevels	table
N horizontal	
N math	
N unset	

N vertical	
modes	data table
mprint	function
muglue	table
muskip	table
mvloptioncodes	data table
nest	table
nilcatcodes	number
noadoptioncodes	data table
normalizelinecodes	data table
normalizeparcodes	data table
nospacesmodecodes	data table
notcatcodes	number
number	function
overloadpermitted	function
paragraphfillmodecodes	data table
paragraphoptioncodes	data table
parcontextcodes	data table
partriggercodes	data table
penaltyoptioncodes	data table
poplocal	function
popsavelevel	function
posit	table
positdef	function
preparelinebreak	function
primitives	function
print	function
protrusionboundarycodes	data table
prtcatcodes	number
pushlocal	function
pushsavelevel	function
quitlocal	function
quittoks	function
resetparagraph	function
rlncatcodes	number
romannumeral	function
round	function
ruleoptioncodes	data table
runlocal	function
runstatecodes	data table
runstring	function
runtoks	function
saveboxresource	function
scale	function

scantoks	function	**setrunstate**	overloaded func
set	function	**setsfcode**	function
setamcode	function	**setskip**	function
setattribute	function	**setspcode**	function
setbalanceshape	function	**settextdir**	function
setbox	function	**settoks**	function
setboxdir	function	**setuccode**	function
setcardinalvalue	function	**sfcode**	table
setcatcode	function	**shapingpenaltiescodes**	data table
setcccode	function	**shiftparshape**	function
setconditional	function	**shipout**	function
setcount	function	**showcontext**	function
setdelcode	function	skip	table
setdimen	function	**snappingcodes**	data table
setdimensionvalue	function	**snapshotpar**	function
setfloat	function	**sp**	function
setglue	function	**spacefactorcodes**	data table
setglyphdata	function	**spaceskipcodes**	data table
setglyphscript	function	**specialmathclasscodes**	data table
setglyphstate	function	**specificationoptioncodes**	data table
sethccode	function	**splitbox**	function
sethmcode	function	splitcodes	data table
setinputstatefile	function	**sprint**	function
setinputstateline	function	**stringtocodesbitmap**	function
setinputstatemode	function	systemmodes	data table
setinsertcontent	function	**takebox**	function
setinsertdistance	function	**texcatcodes**	number
setinsertlimit	function	**textcontrolcodes**	data table
setinsertmaxplaced	function	toks	table
setinsertmultiplier	function	**tonumber**	function
setintegervalue	function	**toscaled**	function
setinteraction	function	**tpacatcodes**	number
setlccode	function	**tpbcatcodes**	number
setlinedir	function	**tprint**	function
setlist	function	**trackedattribute**	function
setlocalbox	function	**trackers**	data table
setmath	function	**triggerbuildpage**	function
setmathcode	function	**txtcatcodes**	number
setmathdir	function	uccode	table
setmuglue	function	**uprint**	function
setmuskip	function	**useboxresource**	function
setnest	function	**userdiscoptioncodes**	data table
setpardir	function	**userglyphoptioncodes**	data table
setpositvalue	function		

vrbcatcodes   number
write   function

texconfig (basic tex)

buffersize	table		**languagesize**	table
N size			N size	
N step			N step	
errorlinesize	table		**marksize**	table
N size			N size	
expandsize	table		N step	
N size			**nestsize**	table
filesize	table		N size	
N size			N step	
N step			**nodesize**	table
firstline	string		N size	
fontsize	table		N step	
N size			**parametersize**	table
N step			N size	
formatname	string		N step	
functionsize	number		**poolsize**	table
halferrorlinesize	table		N size	
N size			N step	
hashsize	table		**propertiessize**	number
N size			**savesize**	table
N step			N size	
init	overloaded function		N step	
inputsize	table		**shell_escape**	string
N size			**stringsize**	table
N step			N size	
insertsize	table		N step	
N size			**tokensize**	table
N step			N size	
kpse_init	boolean		N step	

texio (basic tex)

closeinput	function	**write**	function
forceendoffile	function	**write_nl**	function
getinputindex	function	**writenl**	function
getselectorvalues	function	**writeselector**	function
getsourcefilename	function	**writeselectorlf**	function
setlogfile	function	**writeselectornl**	function
terminal	function		

token (basic tex)

create	function	**getexpandable**	function
expand	function	**getexpansion**	function
expand_macro	function	**getfields**	function
expandmacro	function	**getflags**	function
future_expand	function	**getfrozen**	function
futureexpand	function	**getfunctionvalues**	function
get_active	function	**getid**	function
get_cmdchrcs	function	**getimmutable**	function
get_cmdname	function	**getindex**	function
get_command	function	**getinstance**	function
get_csname	function	**getinteger**	function
get_cstoken	function	**getlength**	function
get_dimension	function	**getmacro**	function
get_expandable	function	**getmeaning**	function
get_fields	function	**getnoaligned**	function
get_flags	function	**getparameters**	function
get_frozen	function	**getpermanent**	function
get_id	function	**getprimitive**	function
get_immutable	function	**getprimitives**	function
get_index	function	**getprotected**	function
get_instance	function	**getrange**	function
get_integer	function	**gettok**	function
get_macro	function	**gettolerant**	function
get_meaning	function	**gobble**	function
get_noaligned	function	**gobble_dimension**	function
get_parameters	function	**gobble_integer**	function
get_permanent	function	**gobbledimension**	function
get_primitive	function	**gobbleinteger**	function
get_protected	function	**grab**	function
get_range	function	**grabstring**	function
get_tok	function	**inhibit**	function
get_tolerant	function	**is_defined**	function
getactive	function	**is_next_char**	function
getcmdchrcs	function	**is_token**	function
getcmdname	function	**isactivestring**	function
getcommand	function	**isdefined**	function
getcommandvalues	function	**isnextchar**	function
getconstant	function	**istoken**	function
getcsname	function	**locatemacro**	function
getcstoken	function	**new**	function
getdimension	function	**peek_next**	function

peek_next_char	function	**scan_tokenlist**	function
peek_next_expanded	function	**scan_toks**	function
peeknext	function	**scan_value**	function
peeknextchar	function	**scan_word**	function
peeknextexpanded	function	**scanargument**	function
pop_macro	function	**scanbox**	function
popmacro	function	**scancardinal**	function
push_macro	function	**scanchar**	function
pushmacro	function	**scancmdchr**	function
put_back	function	**scancmdchrexpanded**	function
put_next	function	**scancode**	function
putback	function	**scancsname**	function
putnext	function	**scancstoken**	function
save_lua	function	**scandelimited**	function
savelua	function	**scandetokened**	function
scan_argument	function	**scandimen**	function
scan_box	function	**scandimenargument**	function
scan_cardinal	function	**scandimension**	function
scan_char	function	**scandimensionargument**	function
scan_cmdchr	function	**scanfloat**	function
scan_cmdchr_expanded	function	**scanglue**	function
scan_code	function	**scanint**	function
scan_csname	function	**scaninteger**	function
scan_delimited	function	**scanintegerargument**	function
scan_dimen	function	**scankey**	function
scan_float	function	**scankeyword**	function
scan_glue	function	**scankeywordcs**	function
scan_integer	function	**scanletters**	function
scan_key	function	**scanluacardinal**	function
scan_keyword	function	**scanluainteger**	function
scan_keyword_cs	function	**scanluanumber**	function
scan_letters	function	**scannext**	function
scan_luacardinal	function	**scannextchar**	function
scan_luainteger	function	**scannextexpanded**	function
scan_luanumber	function	**scanposit**	function
scan_next	function	**scanreal**	function
scan_next_char	function	**scanscale**	function
scan_next_expanded	function	**scanskip**	function
scan_real	function	**scanstring**	function
scan_scale	function	**scantoken**	function
scan_skip	function	**scantokencode**	function
scan_string	function	**scantokenlist**	function
scan_token	function	**scantokenstring**	function
scan_token_code	function	**scantoks**	function

scanvalue	function	**setmacro**	function
scanword	function	**setmacrofrommark**	function
serialize	function	**setmacrotonothing**	function
set_dimension	function	**skip_next**	function
set_integer	function	**skip_next_expanded**	function
set_lua	function	**skipnext**	function
set_macro	function	**skipnextexpanded**	function
setdimension	function	**type**	function
setinteger	function	**undefine_macro**	function
setlua	function	**undefinemacro**	function

tokens (context)

accessors   table

   F active

   F cmd

   F cmdchrcs

   F cmdname

   F command

   F csname

   F expandable

   F frozen

   F index

   F name

   F protected

   F range

astable   function

bits   table

   N active

   N alignment

   N begingroup

   N character

   N close

   N comment

   N endgroup

   N endofline

   N escape

   N ignore

   N invalid

   N letter

   N mathshift

   N open

   N other

   N parameter

   N space

   N subscript

   N superscript

   N whitespace

cache   data table

commands   data table

compile   function

constant   function

converters   table

   S toboolean

   S todimen

   S toglue

   S tonumber

   S tostring

create   function

defined   function

flags   function

getinteger   function

getters   table

   F box

   F count

   F cstoken

   F dimen

   F glue

   F macro

   F meaning

   F skip

   F token

gobble   function

isactivestring   function

isdefined   function

istoken   function

new   function

pickup   function

popmacro   function

presets   table

pushmacro   function

scanners   table

   F argument

   F argumentasis

   F array

   F boolean

   F box

   F bracketed

   F bracketedasis

   F cardinal

   F char

   F cmdchr

   F cmdchrexpanded

   F code

   F conditional

F count

F csname

F csnameunchecked

F delimited

F detokened

F dimen

F dimension

F dimensionargument

F float

F glue

F gluespec

F gluevalues

F hash

F hbox

F integer

F integerargument

F ischar

F key

F keyword

F keywordcs

F letters

F list

F lua

F luacardinal

F luainteger

F luanumber

F lxmlid

F next

F nextchar

F nextexpanded

F number

F optional

F peek

F peekchar

F peekexpanded

F posit

F real

F scanclose

F scanopen

F skip

F skipexpanded

F string

F table

F token

F tokencode

F tokenlist

F tokens

F tokenstring

F toks

F value

F vbox

F verbatim

F vtop

F whd

F word

setinteger   function

setters   table

F box

F char

F count

F dimen

F glue

F lua

F macro

F skip

shortcuts   table

N close

F inspect

N open

F report

F scanargument

F scanargumentasis

F scanarray

F scanboolean

F scanbox

F scanbracketed

F scanbracketedasis

F scancardinal

F scanclose

F scancode

F scanconditional

F scancsname

F scancsnameunchecked

F scandelimited

F scandetokened

F scandimen

F scandimension

F scandimensionargument

F scanfloat	F scanposit
F scanglue	F scanstring
F scangluespec	F scantable
F scangluevalues	F scantokenlist
F scanhash	F scantokenstring
F scanhbox	F scantoks
F scaninteger	F scanvbox
F scanintegerargument	F scanverbatim
F scankeyword	F scanvtop
F scankeywordcs	F scanword
F scanletters	F toboolean
F scanlist	F todimen
F scanlua	F tonumber
F scannumber	F tostring
F scanopen	
F scanoptional	

values   data table

tracers (context)

printerror   function   **showlines**   function
printwarning function

trackers (context)

data	data table	**register**	function
default	function	**report**	function
disable	function	**reset**	function
done	table	**savehash**	function
dumphashtofile	function	**show**	function
enable	function	**value**	function
list	function	**values**	function
name	string		

typesetters (context)

alignments   table
   F handler
   F set
breakpoints   table
   F define
   F handler
   D mapping
   F set
   F setreplacement
cases   table
   F handler
   F register
   F set
characteralign   table
   F handler
   F resetcharacteralign
   F setcharacteralign
characters   table
   F handler
   F replacenbsp
   F replacenbspaces
checkers   table
   F handler
   F reset
   F set
cleaners   table
   F handler
   F set
compare   table
   F handler
   F reset
   F set
   F setpair
   F setup
corrections   table
   F handler
digits   table
   F handler
   F set
directions   table
   F getfences

   F getglobal
   F getmethod
   F handler
   F installhandler
   F set
   F setcolor
   F tomode
firstlines   table
   F handler
   F set
fontkerns   table
   F handler
initials   table
   F handler
   F set
injectors   table
   F check
   F mark
   F reset
   F set
   F show
italics   table
   F enablemath
   F enabletext
   F handler
kerns   table
   D factors
   F handler
   F keepligature
   D mapping
   F set
localboxes   table
   F handler
manipulators   table
   F apply
   F applyspecification
   F splitspecification
margins   table
   F finalhandler
   F globalhandler
   F localhandler

F save

marksuspects function

paragraphs table

    F addanchortoline

    F addtoline

    F calculatedelta

    F checkline

    F moveinline

periodkerns table

    D factors

    F handler

    D mapping

    F set

processors table

    F apply

    F register

    F reset

    F split

    F startapply

    F stopapply

    F stripped

    F tostring

rubies table

    F attach

    F check

showinvisibles function

showsuspects function

spacings table

    F define

    F handler

D mapping

    F reset

    F set

    F setup

stacking table

    F getindex

    F getselection

    F handler

swapping table

    F handler

synchronize table

    F handler

tighten table

    F handler

wrappers table

xtables table

    F cleanup

    F construct

    F create

    F finish_row

    F flush

    F initialize_construct

    F initialize_reflow_height

    F initialize_reflow_width

    F next_row

    F reflow_height

    F reflow_width

    F set_construct

    F set_reflow_height

    F set_reflow_width

updaters (context)

apply   function
register function

url (context)

addscheme	function	**hashed**	function
barepath	function	**hasscheme**	function
construct	function	**query**	function
decode	function	**split**	function
encode	function	**toquery**	function
escape	function	**unescape**	function
filename	function	**unescapeget**	function

utf8 (basic lua)

char	function		**codes**	function
charpattern	string		**len**	function
codepoint	function		**offset**	function

utilities (context)

debugger   table
- F disable
- F enable
- F savestats
- F showstats
- F showtraceback

files   table
- F close
- F getposition
- F getsize
- F look
- F open
- F read2dot14
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal1le
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readchar
- F readcline
- F readcstring
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger1le
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readintegertable

- F readsignedbyte
- F readstring
- F readtag
- F setposition
- F size
- F skip
- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal1
- F writecardinal1le
- F writecardinal2
- F writecardinal2le
- F writecardinal3
- F writecardinal3le
- F writecardinal4
- F writecardinal4le
- F writeinteger1
- F writeinteger1le
- F writeinteger2
- F writeinteger2le
- F writeinteger3
- F writeinteger3le
- F writeinteger4
- F writeinteger4le
- F writestring

formatters   table
- F formatcolumns
- F list
- F stripzeros

ghostscript   table
- F convert
- F statistics

graphicmagick   table
- F convert
- F statistics

graphicsmagick   table
- F convert
- F statistics

json   table

F	load	F	settings_to_array_with_repeat
F	tojson	F	settings_to_hash
F	tolua	F	settings_to_hash_colon_too
F	tostring	F	settings_to_hash_strict

lua   table

B	alwaysstripcode	F	settings_to_hash_tolerant
F	checkmemory	F	settings_to_numbers
F	compile	F	settings_to_set
F	loadedluacode	F	simple_hash_to_string
F	loadstring	F	splitmethod
F	loadstripped	F	splitthousands
N	nofstrippedbytes	F	stepper
N	nofstrippedchunks	F	stripped_settings_to_array
F	registerfinalizer	F	totime
B	stripcode	F	unittotex
F	strippedloadstring	F	unittoxml

packers   table

randomizer   table

F	hashed	F	get
F	new	F	getnumber
F	pack	F	getrepeatable
F	simplehashed	F	getrepeatableseed
F	strip	F	getseed
F	unpack	F	newrepeatable
N	version	F	popseed

parsers   table

F	add_settings_to_array	F	pushseed
F	arguments_to_table	F	repeatable
F	array_to_string	F	reuseseed
F	csvsplitter	F	setseed
F	getparameters	F	setseedi

randomizers   table

F	groupedsplitat	F	poisson
F	hash_to_string		

sequencers   table

F	iterator	F	appendaction
F	keq_to_hash	F	appendgroup
F	listitem	F	compile
F	make_settings_to_hash_pattern	F	disableaction
F	mergehashes	F	disablegroup
F	options_to_array	F	enableaction
F	options_to_hash	F	enablegroup
F	process_stripped_settings	D	functions
F	rfc4180splitter	F	localize
F	runtime	F	new
F	settings_to_array	F	nodeprocessor
F	settings_to_array_obey_fences	F	prependaction
		F	prependgroup

F	removeaction	F	read2dot14
F	replaceaction	F	readbyte
F	setkind	F	readbytes
F	tostring	F	readbytetable
setters	**table**	F	readcardinal
F	disable	F	readcardinal1
F	enable	F	readcardinal1le
F	initialize	F	readcardinal2
F	list	F	readcardinal2le
F	new	F	readcardinal3
F	register	F	readcardinal3le
F	report	F	readcardinal4
F	reset	F	readcardinal4le
F	show	F	readcardinaltable
signals	**table**	F	readchar
S	configuration	F	readcline
F	initialize	F	readcstring
F	loadstate	F	readfixed2
F	report	F	readfixed4
F	savestate	F	readinteger
F	serialclose	F	readinteger1
F	serialfast	F	readinteger1le
F	serialopen	F	readinteger2
S	serialprefix	F	readinteger2le
F	serialsend	F	readinteger3
F	serialwrite	F	readinteger3le
N	version	F	readinteger4
stacker	**table**	F	readinteger4le
F	new	F	readintegertable
storage	**table**	F	readsignedbyte
F	allocate	F	readstring
F	checked	F	setposition
F	mark	F	size
F	marked	F	skip
F	setinitializer	F	skipbytes
F	sparse	F	skiplong
streams	**table**	F	skipshort
F	close	F	tocardinal1
F	getposition	F	tocardinal1le
F	getsize	F	tocardinal2
F	getstring	F	tocardinal2le
F	look	F	tocardinal3
F	open	F	tocardinal3le
F	openstring	F	tocardinal4

		tar	table
F	tocardinal4le		
		F	closearchive
strings	table	F	openarchive
F	collapse	**templates**	table
F	collapsecrlf	F	load
F	newcollector	F	replace
F	newrepeater	F	replacer
F	striplines	F	resolve
F	tabtospace	**zipfiles**	table
tables	table	F	close
F	accesstable	F	found
F	definedtable	F	hash
F	definetable	F	list
F	encapsulate	F	open
F	insertaftervalue	F	unzip
F	insertbeforevalue	F	unzipdir
F	migratetable	F	zipdir
F	removevalue		
F	replacevalue		

vector (context)

add	function		**homogenize**	function
append	function		**identity**	function
average	function		**inner**	function
ceiling	function		**insert**	function
checkoverlap	function		**inverse**	function
collectoverlap	function		**ismesh**	function
concat	function		**issingular**	function
contour	table		**isvector**	function
F average			**iszero**	function
F bounds			**mesh**	table
F checkoverlap			F get	
F collectoverlap			F getdimensions	
F getarea			F ismesh	
F getmesh			F new	
F makemesh			F set	
F overlapping			F tostring	
F show			F totable	
F sort			F type	
copy	function		**meshname**	function
crossproduct	function		**mul**	function
delete	function		**negate**	function
determinant	function		**new**	function
div	function		**normalize**	function
equal	function		**onecolumn**	function
exchange	function		**onerow**	function
floor	function		**product**	function
get	function		**remove**	function
getdimensions	function		**replace**	function
getepsilon	function		**round**	function
getmesh	function		**rowechelon**	function
getrc	function		**set**	function
getrow	function		**setepsilon**	function
getstacking	function		**setnext**	function
gettype	function		**setrc**	function
helpers	table		**setstacking**	function
F points			**slice**	function
F transform			**sort**	function
F xrotation			**sub**	function
F xyzscale			**swap**	function
F yrotation			**tostring**	function
F zrotation			**totable**	function

| **transpose** | function | **truncate** | function |
| **triangulate** | function | **type** | function |

visualizers (context)

escapepatterns	data table	**signal**	string
getspecification	function	**signalpattern**	userdata
getvisualizer	function	**specifications**	data table
load	function	**visualize**	function
makenested	function	**visualizebuffer**	function
makepattern	function	**visualizefile**	function
newgrammar	function	**visualizestring**	function
newhandler	function	**write**	function
parsedxml	function	**writeargument**	function
pattern	function	**writedefault**	function
register	function	**writeemptyline**	function
registerescapecommand	function	**writenewline**	function
registerescapeline	function	**writespace**	function
registerescapepattern	function		

xcomplex (extra lua)

I	function		**erf**	function
__add	function		**erfc**	function
__div	function		**erfcx**	function
__eq	function		**erfi**	function
__mul	function		**exp**	function
__name	string		**i**	function
__pow	function		**imag**	function
__sub	function		**log**	function
__tostring	function		**new**	function
__unm	function		**pow**	function
abs	function		**proj**	function
acos	function		**real**	function
acosh	function		**sin**	function
arg	function		**sinh**	function
asin	function		**sqrt**	function
asinh	function		**tan**	function
atan	function		**tanh**	function
atanh	function		**topair**	function
conj	function		**tostring**	function
cos	function		**totable**	function
cosh	function		**voigt**	function
dawson	function		**voigt_hwhm**	function

xdecimal (extra lua)

__add	function	**bxor**	function
__band	function	**conj**	function
__bor	function	**copy**	function
__bxor	function	**exp**	function
__div	function	**getprecision**	function
__eq	function	**ln**	function
__idiv	function	**log**	function
__le	function	**max**	function
__lt	function	**min**	function
__mod	function	**minus**	function
__mul	function	**new**	function
__name	string	**plus**	function
__pow	function	**pow**	function
__shl	function	**rotate**	function
__shr	function	**setprecision**	function
__sub	function	**shift**	function
__tostring	function	**sqrt**	function
__unm	function	**toengstring**	function
abs	function	**tonumber**	function
band	function	**tostring**	function
bor	function	**trim**	function

xmath (extra lua)

acos	function		**isnormal**	function
acosh	function		**j0**	function
asin	function		**j1**	function
asinh	function		**jn**	function
atan	function		**ldexp**	function
atan2	function		**lgamma**	function
atanh	function		**log**	function
cbrt	function		**log10**	function
ceil	function		**log1p**	function
copysign	function		**log2**	function
cos	function		**logb**	function
cosh	function		**modf**	function
deg	function		**nan**	number
erf	function		**nearbyint**	function
erfc	function		**nextafter**	function
exp	function		**pi**	number
exp2	function		**pow**	function
expm1	function		**rad**	function
fabs	function		**remainder**	function
fdim	function		**remquo**	function
floor	function		**round**	function
fma	function		**scalbn**	function
fmax	function		**sin**	function
fmin	function		**sinh**	function
fmod	function		**sqrt**	function
frexp	function		**tan**	function
gamma	function		**tanh**	function
hypot	function		**tgamma**	function
inf	number		**trunc**	function
isfinite	function		**y0**	function
isinf	function		**y1**	function
isnan	function		**yn**	function

xml (context)

addentitiesdoctype	function	F family	
addspecialcode	function	F fontspecification	
after	function	F mappedstylevalue	
all	function	F padding	
applylpath	function	F size	
applyselector	function	F style	
assign	function	F stylevalue	
attribute	function	F todimension	
badinclusions	function	F variant	
before	function	F weight	
body	function	**defaulthandlers**	table
builtinentities	table	D file	
B amp		D parsedxml	
B apos		D string	
B gt		D tex	
B lt		D texline	
B quot		D texspace	
cdata	function	D verbose	
cdatatotext	function	**defaultprotocol**	string
checkbom	function	**delete**	function
checkedempty	function	~~**delete_element**~~	~~function~~
checkerror	function	**despecialized**	function
checknamespace	function	**each**	function
checkns	function	~~**each_element**~~	~~function~~
cleansed	function	**elements**	function
collect	function	**elementtocdata**	function
~~**collect_elements**~~	~~function~~	**empty**	function
collect_tags	function	**entities**	data table
~~**collect_texts**~~	~~function~~	**erase**	function
collected	function	**errorhandler**	function
collecttexts	function	**escaped**	function
compactelement	function	**expand**	function
content	function	**expressions**	table
convert	function	F attribute	
copy	function	F boolean	
count	function	F child	
cprint	function	F contains	
css	table	F count	
F applyselector		F error	
F colorspecification		F find	
F dimension		F hasclass	

F idstring		**insertcomment**	function
F lower		**inspect**	function
F name		**is_valid**	function
F number		**kind**	function
F oneof		**last**	function
F print		**lastmatch**	function
F quit		**load**	function
F tag		**lpath**	function
F text		**lpathcached**	function
F undefined		**lpathcalls**	function
F upper		**lshow**	function
fillin	function	**makestandalone**	function
filter	function	**match**	function
finalizers	table	**mml**	table
F paragraphs		F stripped	
first	function	F verbose	
found	function	**name**	function
functions	table	**newhandlers**	function
F classes		**nodesettostring**	function
F hasclass		**originalload**	function
getbuffer	function	**package**	function
gethandlers	function	**parent**	function
gethandlersfunction	function	**parsedentitylpeg**	userdata
helpers	table	**pihandlers**	table
F recursetext		F injector	
include	function	F tex	
inclusion	function	**placeholders**	table
inclusions	function	F unknown_any_entity	
index	function	F unknown_dec_entity	
inheritattributes	function	F unknown_hex_entity	
inheritedconvert	function	**popmatch**	function
inject	function	**position**	function
~~inject_element~~	~~function~~	**privatecodes**	data table
~~inject_element_after~~	~~function~~	**privatetoken**	function
~~inject_element_before~~	~~function~~	**process**	function
injectafter	function	~~process_attributes~~	~~function~~
injectbefore	function	~~process_elements~~	~~function~~
insert	function	**processattributes**	function
insert_element	function	**profiled**	table
~~insert_element_after~~	~~function~~	**pure**	function
~~insert_element_before~~	~~function~~	**pushmatch**	function
insertafter	function	**raw**	function
insertbefore	function	**registerentity**	function
insertcdata	function	**registerns**	function

reindex	function	**specialhandler**	table
remap_name	function	**sprint**	function
remap_namespace	function	**string**	function
remap_tag	function	**strip**	function
remapname	function	**strip_whitespace**	function
remapnamespace	function	**stripelement**	function
remaptag	function	**stripleadingspaces**	function
rename	function	**table**	function
renamespace	function	**text**	function
reparsedentitylpeg	userdata	**textonly**	function
replace	function	**texttocdata**	function
replace_element	function	**tocdata**	function
resetinjectors	function	**toelement**	function
resolvens	function	**tostring**	function
root	function	**totable**	function
save	function	**toxml**	function
selection	function	**tprint**	function
separate	function	**traverse**	function
serialize	function	**unescaped**	function
serializetotext	function	**unescapedentitylpeg**	userdata
setcdata	function	**unprivatized**	function
setcomment	function	**unspecialized**	function
sethandlersfunction	function	**wipe**	function
setinjectors	function	**withelement**	function
setproperty	function	**withelements**	function
settings	function	**wrap**	function
specialcodes	data table	**xmlns**	table

xzip (extra lua)

adler32	function	**crc32**	function
compress	function	**decompress**	function
compresssize	function	**decompresssize**	function

zip (context)

archives   table   **openarchive**   function
closearchive function   **registeredfiles** table

zlib (context)

adler32	function	**crc32**	function
compress	function	**decompress**	function
compresssize	function	**decompresssize**	function