Open Computing ‘‘Hands-On’’ Tutorial: January 1994: Figures

Figure 1. Workspace does not match the left-hand side:

`bob@here` *the workspace*

nothing matches

`Rleft.side new.stuff this is a comment`

Figure 2. How ‘‘x’’ and ‘‘y’’ become ‘‘a’’.

`x` *the workspace*

exact match, so: TRUE

`Rx y` *first rule rewritten*

`y` *workspace to be this*

exact match, so TRUE

`Ry z` *second rule*

Figure 3. How “x” and “y” become “a”, another view:

x *becomes* y *becomes* z *becomes* a

y *becomes* z *becomes* a

z *becomes* a

Figure 4. An operator in the left-hand side.

R$+ $@match

lhs *rhs*

Figure 5. Tokenizing an address with user and host portions:

gw@wash.dc.gov

tokenized into

"gw" "@" "wash" "." "dc" "." "gov" *in the workspace*

Figure 6. A good versus a bad address:

gw@wash.dc.gov *$+ matches*

@wash.dc.gov *$+ also matches an incomplete address*

Figure 7. How `$+@$+` matches the workspace:

workspace	*pattern*	
"gw"	"$+"	*match one or more*

"@"	"@"	*exact match*
"wash"	"$+"	*matches one*
"."		*or more*
"dc"		
"."		
"gov"		

Figure 8. Why `$+@$+` doesn't match `@wash.dc.gov`:

workspace	*pattern*	
"@"	"$+"	*match one*
"wash"		*or more*
"."		
"dc"		
"."		
"gov"		
	"@"	*match exactly (fails!)*
	"$+"	

Figure 9. The flow of an address through the rules:

user@host.domain *does not match the rule:*

R@ $@one

so try the next rule:

```
R@$+     $@two
```

which doesn't match so try the next rule, which does:

```
R$+@$+ $@three
```

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