

compiler design

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COMPOSE

**Compiler Design**

to bcc: me

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in continuation of the 9-step email, and today's extra class:

Starred

For any production of the form $A : XY$

Important

A: Non-terminal

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X, Y: Symbols (Terminal or non-terminal)

Drafts (6) $$$$: value of A $\$1$: value of X $\$2$: value of Y.**Circles** $$$ = \1 is the default assignment, if you don't give any explicit assignment in action part.

Now, in the action part of this production,

- if you are explicitly using any of the $\$i$, you NEED to have a %type for that symbol. Otherwise, bison will give error.

- if you

- have a %type for A, and

- don't have it for X, and

- don't have a $$$ = \text{<something>}$ bison will give a warning because $$$ = \1 is the default rule, and you haven't given %type for X ($\$1$).- This is OK, as long as you are *not* using $$$$ (i.e. value of A), up the chain.

- Otherwise, result may be unexpected, as it is based on yylval's correct setting. So explicitly declare the type, if you are making use of A up the chain.

Here you need to note that if the rule is

 $A : XY$ $| UV,$ and you are only worried about $A : XY$, and have declared %type for all thes