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6.1 Basics of Variable References

To substitute a variable's value, write a dollar sign followed by the name of the variable in parentheses or braces: either '\$(foo)' or '\$(foo)' is a valid reference to the variable foo. This special significance of '\$' is why you must write '\$\$' to have the effect of a single dollar sign in a file name or recipe.

要替换变量的值,请写一个美元符号,后跟括号或大括号中的变量名称: "\$(foo)" 或 " \${foo}" 是对变量 foo 的有效引用。 '\$' 的这种特殊意义导致为什么你必须写 '\$\$' 以在文件名或配方中产生单个美元符号的效果。

Variable references can be used in any context: targets, prerequisites, recipes, most directives, and new variable values. Here is an example of a common case, where a variable holds the names of all the object files in a program:

变量引用可以在任何上下文中使用:目标、先决条件、配方、大多数指令和新变量值。这里有一个常见情况的示例,其中一个变量保存程序中所有目标文件的名称:

Variable references work by strict textual substitution. Thus, the rule

```
foo = c
prog.o : prog.$(foo)
     $(foo)$(foo) -$(foo) prog.$(foo)
```

could be used to compile a C program prog.c. Since spaces before the variable value are ignored in variable assignments, the value of foo is precisely 'c'. (Don't actually write your makefiles this way!)

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变量引用通过严格的文本替换工作。 因此,该规则可用于编译 C 程序 prog.c。 由于在变量赋值中变量值之前的空格被忽略,所以 foo 的值恰好是"c"。 (实际上不要以这种方式编写您的 makefile!)

A dollar sign followed by a character other than a dollar sign, open-parenthesis or open-brace treats that single character as the variable name. Thus, you could reference the variable x with '\$x'. However, this practice can lead to confusion (e.g., '\$foo' refers to the variable f followed by the string oo) so we recommend using parentheses or braces around all variables, even single-letter variables, unless omitting them gives significant readability improvements. One place where readability is often improved is automatic variables (see Automatic Variables).

美元符号后跟除美元符号、左括号或左大括号以外的字符时,将该单个字符视为变量名。 因此,您可以使用 "\$x"来引用变量 x。 但是,这种做法可能会导致混淆(例如,'\$foo' 指的是变量 f 后跟字符串 oo) ,因此我们 建议在所有变量周围使用圆括号或大括号,甚至是单字母变量,除非省略它们会显着提高可读性 . 通常提高可读性的一个地方是自动变量(请参阅自动变量)。