Slide 2



Shell Scripting — Review/Recap
What you type at the command line in most UNIX shells forms a programming language; in a sense an interactive shell is a REPL for the scripting language? The language has variables, conditional execution, and loops.
"Shell script" is a program in a shell language. By convention the file starts with something that says which shell is to be used.
Shell scripts often make heavy use of "filter" programs, plus I/O redirection and pipelines. "Command substitution" is another way to combine programs.



Arithmetic
Most basic/portable way probably expr. Example: n=`expr \$n + 1`.
In bash, can also use double parentheses. Example: n=\$((n + 1)).
(But if you're doing significant calculations, you should probably be using some other tool — awk, bc, dc, or a program in a "real" programming language.)

Slide 4

## Reading from Standard Input

```
    To read from shell's / script's standard input: read. Example:
    echo "Do you really want to do this? (y/n)"
    read ans
    if [ "$ans" = "y" ] ....
```

Slide 5



Slide 6



Slide 7



