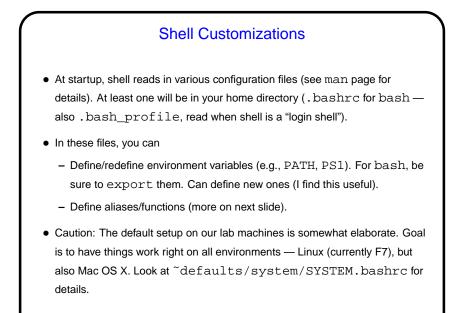
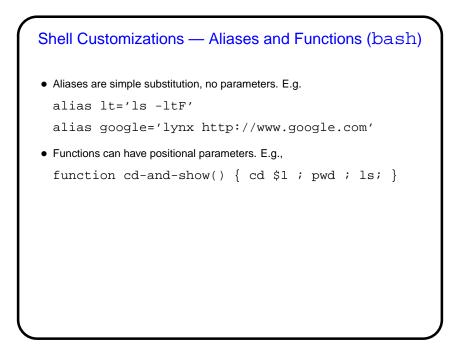
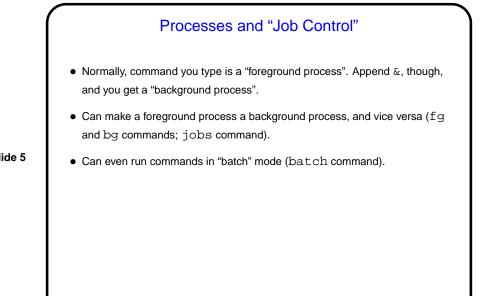


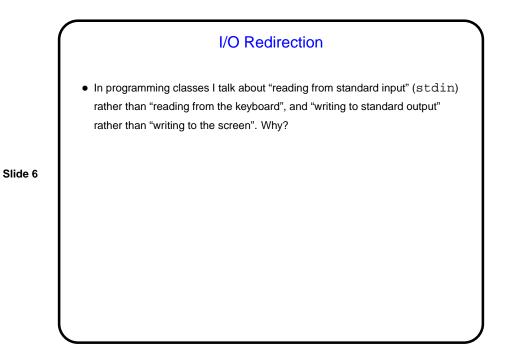
Shell Built-Ins Versus Commands, Recap
Last time: First token on each input line is "command", which can be an external command or a shell built-in.
One key difference — external command executes as a separate ("child") process, so cannot change shell's "execution environment", including environment variables and current directory. (So, cd is a built-in, as is any command that sets environment variables.)

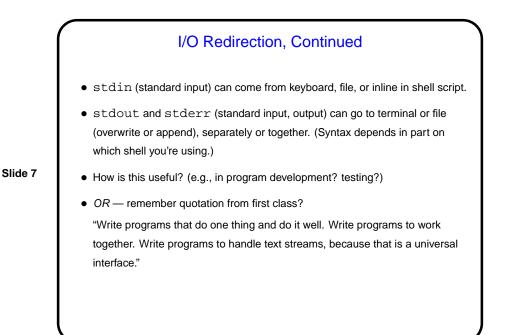


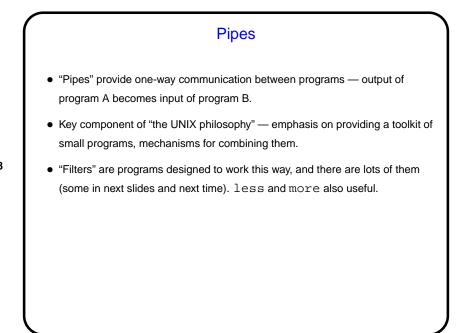


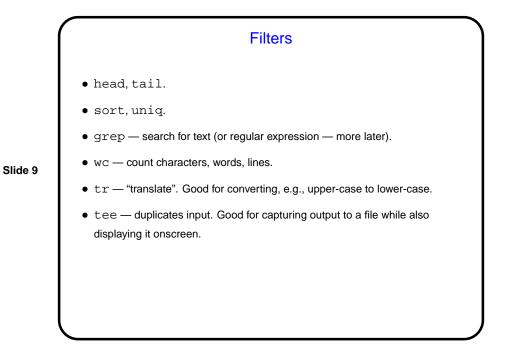
Slide 3

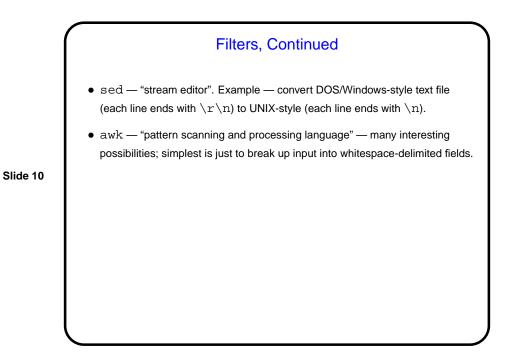












Examples
• Find all processes that belong to your username:
 ps aux | grep \$USER
• Generate a list of machines that are "up":
 ruptime | grep up | awk '{print \$1}'
• Show how much space each subdirectory of your home directory is using,
 sorted by size.
 du -sk \$HOME/\* | sort -n
 (Unfortunately this omits directories starting with a dot.)

