

Administrivia

- Short “how-to” on setting up for SSH without password prompts linked from “Useful links” page.

Slide 1

“What Command Do I Use To ...”

- Continuing the tour of some commands I have found useful ...
- (The point of this tour is not to present details of any of the commands, just to make you aware they exist, so you can follow up on those that seem useful.)

Slide 2

Miscellaneous Other Command(s)

- `time` to run a command and say how long it took.
- `urlview` to (try to) find URLs in text and display text-based menu for accessing them.

Slide 3

(Mostly-)Text-Mode Plotting (`gnuplot`)

- Usually run in graphical mode, but interface is text-only. Help available from within program by typing `help`. (Help is modeled after online help on VAX VMS operating system, and is — different.)
- Can also be run in batch mode — e.g., if you want to be able to easily regenerate plots when data changes.
- Nice for \LaTeX users because it can produce output in various \LaTeX -friendly formats (including ones that allow final typesetting to use same fonts as document).
- Examples linked from “Sample programs” page ([here](#)).

Slide 4

Slide 5

A Text-Based Window Manager

- `screen` is ... a “virtual virtual terminal”, a “text-based window manager”, something that multiplexes a physical terminal between several processes, usually interactive shells.
- Supports one or more “windows” (programs, usually shells), plus one or more “regions” (areas on screen).
- Functionality includes
 - Ability to leave programs running even if “real” terminal isn’t there — i.e., disconnect/reconnect.
 - Ability to copy and paste text among windows, log stuff, etc..

Slide 6

A Text-Based Window Manager, Continued

- You know what to do to find out more ... (Or try <http://www.gnu.org/software/screen.>)
- Some useful info for getting started:
 - `screen` starts things up.
 - `control-A c` creates a new window. `exit` to end.
`control-A "` gives menu for selecting window.
 - `control-A S` creates a new region (“splits the screen”).
`control-A X` to end. `control-A Tab` switches to next region.
 - `control-A ?` shows key bindings.
 - `control-A D` detaches session. `screen -r` to resume.

More Commands (From Minute Essay Responses)

- `netcat` (a.k.a. `nc`) does — a lot of things. (Read the man page or ask the student who mentioned it!)
- `top` monitors performance in realtime.

Slide 7

Miscellaneous Fun (?) Stuff

- Some selected text-based games installed in `/users/cs3190u/games/games`. “Caveat user” — installation was quick-and-dirty, so not all games work 100%, but interesting as a sampling of what games were like in the (not-always-so-)Good Old Days.
- And of course there’s
`telnet towel.blinkenlights.nl`
(If you try this — just type the above, and be patient. Use control-] and then “quit” to interrupt it if you need to.)

Slide 8

Minute Essay

- Any other topics you want to hear about? I'm thinking a lecture on mail and one on X/GUIs next week, and after that . . . ?

Some possibilities: CGI scripting, installing software, more about previous topics (e.g., shell scripts), a little about Perl.

Slide 9

- (Okay to think about this one and send me mail later. Just don't forget!)