Linux Survival Commands

- ▶ Moving, Removing and Creating
  - ▶ `pwd` - print working directory
  - ▶ `ls` - list files
    - ▶ `$ ls -l`   *long format*
    - ▶ `$ ls -a`   *show all hidden files*
  - ▶ `cd` - change directory
    - ▶ `$ cd`   *go to home directory*
    - ▶ `$ cd ..`   *go up one directory*
    - ▶ `$ cd adir/bdir`   *go to directory adir/bdir*
  - ▶ `cp` - copy a file
    - ▶ `$ cp from_file to_file`   *copy one file into another*
    - ▶ `$ cp -r from_dir to_dir`   *recursively copy one directory into another*
  - ▶ `mv` - move or rename a file
    - ▶ `$ mv from_file to_file`   *rename a file, destructive*
  - ▶ `rm` - remove a file
    - ▶ `$ rm filename`   *removes filename*
  - ▶ `mkdir` - make a directory
    - ▶ `$ mkdir dirname`   *creates directory dirname*
  - ▶ `tree` - directory as a hierarchical structure
    - ▶ `$ tree`   *draws ascii directory structure*

Linux Survival Commands

Printing

- ▶ **a2ps** - pretty print a text file
  a2ps highlights keywords, strings, comments and constants have a different color or font style. If it knows the (programming) language in which your file is written, it will try to make it look nice on paper.
  - ▶ `$ a2ps file2print`   *default format, 2up, border, headers*
  - ▶ `$ a2ps -r --columns=1 -l=132 myfile -P prntrname`   *wide, 132 char width*
  - ▶ `$ a2ps file2print -o outfile.ps`   *send output to a file*
  - ▶ `$ card file2print -o outfile.ps`   *FIX ME AND POPULATE*

- ▶ **lp** - dumb printing

Linux Survival Commands

Finding, Checking

- **find** - locate a file
  - `$ find . -name myfile -print`
    start here, search for "myfile"
  - `$ find / -name "*ECE*" -print`
    start at /, search for files with "ECE" in them
  - `$ find /bin -mmin -10 -print`
    search in /bin for files that changed less than 10 minutes ago
- **less** - view contents of a text file
  - `$ less file2read`   *view contents of text file file2read*
- **head** - view first 10 lines of a text file
  - `$ head -n 20 file2read`   *view first 20 lines of file2read*
- **tail** - view last 10 lines of a text file
  - `$ tail -n 20 file2read`   *view last 20 lines of file2read*

Linux Survival Commands

Finding, Checking (cont.)

- **grep** - search for a string in a file
  - `$ grep "literal_string" file2examine`
    search for string "literal_string" in file2examine and print match lines
  - `$ grep INCLUDE *.c`   *search all .c files for the string INCLUDE*
- **diff** - compare two files and report differences
  - `$ diff file1 file2`   *compare two files and report differences*
- **man** - display manual for a command
  - `$ man command`   *display manual for a command*
- **whatis** - brief description of command
  - `$ whatis chmod`   *give brief description of chmod command*
- **history** - list previous commands
  - `$ history`   *give list of previous commands*
- **cal** - print calendar
  - `$ cal`   *print present month calendar*
  - `$ cal 2013`   *print year 2013 calendar*
- **date** - print day, date, time, year, timezone
- **ps** - list process status
  - `$ ps -ef`   *list all process running on the systemg*
  - `$ ps -u username`   *list all process running owned by username*
  - `$ ps -ef | grep command`   *list all process running "command"*

Linux Survival Commands

Web or Network Operations

- ▶ **ssh** - open secure shell
  - ▶ `$ ssh -l jsmith access.engr.orst.edu` *login jsmith to access.engr.orst.edu*
  - ▶ `$ ssh -Y -l jsmith access.engr.orst.edu` *login jsmith, X tunneling enabled*
- ▶ **curl** - transfer data with URL syntax
  - ▶ `$ curl http://www.engr.orst.edu/stuff.pdf > mystuff.pdf` *get the file stuff.pdf at http://www.engr.orst.edu, save into mystuff.pdf*
  - ▶ `$ curl -o mygettext.html http://www.gnu.org/software/gettext/manual/gettext.html` *get gettext.html and save it to mygettext.html*
- ▶ **gzip,gunzip** - compress or compress a file
  - ▶ `$ gzip abigfile` *compress abigfile, output is abigfile.zip*
  - ▶ `$ gunzip abigfile` *decompress abigfile.zip, output is abigfile*