

Introduction to Command Line

CS 196 – 25 Dotstar [Lecture F4]

File System Traversal

. Current directory.
.. Parent directory.
cd *dir* Change directory to *dir*.
ls List the contents of a directory.
ls [*option*] [*file*] ls with more options.
pwd print working (current) directory.

File & Dir Operations

mkdir [*dir*] Create new directory.
cp [*file1*] [*file2*] Copy *file1* as *file2*.
mv [*file1*] [*file2*] Move *file1* to *file2* (think cut vs copy).
rm [*file*] Remove file (hard delete).
rmdir [*dir*] Remove folder (hard delete).

Redirect I/O and Piping

[*cmd*] < [*file*] Change stdin for *cmd* to *file*.
[*cmd*] > [*file*] Change stdout for *cmd* to *file*.
[*cmd*] >> [*file*] Append *cmd*'s stdout to *file*.
[*cmd1*] < ([*cmd2*]) Output of *cmd2* as stdin for *cmd1*.
[*cmd1*] | [*cmd2*] stdout of *cmd1* to *cmd2*.

Git Commands

Remember: these are inputs for git

status lists all new or modified files to be committed.
diff shows file differences not yet staged.
add [*file*] adds file to version control.
commit -m *msg* commit with string *msg* as a descriptive message.
log list version history.
clone [*url*] download *url* version history.
push [*alias*] [*branch*] Synch up local branch commits.
pull Synch down commits.
init [*dir*] Create new repository *dir*.

More Cool Stuff

man Manual pages
grep [*pattern*] [*file*] global regular expression print for *pattern* within *file*.
find /*dir*/ -name [*rgx*] find files within directory *dir* having the name defined by regular expression *rgx*.
vim text editor within command line.
cat [*file*] (catch) output contents of *file*.

echo [*var*] echo value of *var*.

clear clear current view

reset reset the state of terminal

Shortcuts / Signals

CTRL + C SIGINT (Signal Interrupt)

CTRL + Z SIGTSTP

**CTRL + ** SIGQUIT

killall *name* kill all process named *name*