

Bash

Navigating

cd name_of_directory cd .. # Go up one cd ~ # Go to home # Go to home pwd # Where am I?

Listing files

List files ls ls -a # See hidden ls -1 # See more info ls -R # Recursive

Moving and renaming

mv file.txt new_name.txt mv file.txt ../new/place/

Copying

cp file.txt file_backup.txt cp -r directory/ backup/

Deleting

rm file.txt rmdir empty_directory/ rm -r full_directory/

Creating

mkdir my_directory touch empty_file.py

Reading data from file

cat filename.txt cat file1 file2 file3

Redirecting output into file

ls -R > all_files.txt cat a.html b.html > c.html

Running file as bash script

Save commands to script.sh bash script.sh

Bash Tricks

Auto complete Start typing then hit <Tab>. Hit twice for options.

Wildcards

rm *.jpg # Delete jpg files

Advanced piping

Search process for "chrome" ps -e | grep chrome

BASH: VARIABLES, OUTPUT

Setting and viewing variables

PLANET="world" ecoh "Hello \$PLANET" env # Show ALL variables

Run command with variable set

DEBUG=true npm start

Bash: History

History commands

cd - # go back a directory history # view all commands !! # last command you typed sudo !! # ditto, but as sudo

Shortcut: Last command <Up>

Shortcut: Search through history <Ctrl+R> then start typing, <Ctrl+R> to cycle back, <Enter> to run.

Bash: Process management

Job control

npm start & # run process in BG ps # show processes jobs # show background processes fg # foreground last process <Ctrl+Z> # pause process, put in bg # keep bg process [1] running forever disown %1

Viewing all processes

ps -e # show all processes ps -ejH # show process trees ps -e | grep python # filtering

Killing processes

kill 4264 # kill process by PID killall python # kill process by name find . | grep .py\$ # find py files killall -9 python # force kill by name

GIT

Starting (local) repo

git init

Adding and committing

git add -A # Add to staging git commit -m "Fixed :)"

Finding out status

git status git log

Learning about past

```
git log
                # Q to quit
git show f85bfcf
git diff f85bfcf master
git checkout f85bfcf
```

Branch workflow

```
git branch my-stuff
git checkout my-stuff
# Do some work...
git add -A
git commit -m "did stuff"
git checkout master
git merge my-stuff
```

Interacting with remotes (e.g. GitHub, Heroku)

```
git remote -v # check remotes
git pull # get updates
# Do some work...
git add -A
git commit -m "it works!"
git push # share updates
```