

BASH & GIT Bash Basics BASH: VARIABLES, OUTPUT GIT Navigating Starting (local) repo Setting and viewing variables cd name_of_directory git init PLANET="world" cd .. # Go up one cd ~ # Go to home echo "Hello \$PLANET" Starting with repo from GitHub env # Show ALL variables pwd # Where am I? # Using HTTP (prompt for pw) Listing files Run command with variable set git clone https://github.com/U/R # Using SSH (requires setup) ls # List files git clone git@github.com:U/R.git DEBUG=true npm start ls -a # See hidden ls -1 # See more info Adding and committing 1s -R # Recursive git add -A # "Stage" all Bash: History Moving and renaming git commit -m "Fixed :)" mv file.txt new_name.txt Finding out status mv file.txt ../new/place/ History commands git status Copying git log cd - # go back a directory history # view all commands cp file.txt file_backup.txt Learning about past !! # last command you typed cp -r directory/ backup/ sudo !! # ditto, but as sudo git log # Q to quit Deleting git show f85bfcf Shortcut: Last command <Up> git diff f85bfcf master rm file.txt git checkout f85bfcf rmdir empty_directory/ Shortcut: Search through history rm -r full_directory/ Branch workflow <Ctrl+R> then start typing, <Ctrl+R> to cycle back, Creating git branch my-stuff <Enter> to run. git checkout my-stuff mkdir my_directory # After you do some work... touch empty_file.py git add -A git commit -m "New logo :)" Bash: Process Management Reading data from file git checkout master git merge my-stuff cat filename.txt cat file1 file2 file3 Multiple commands Interacting with remotes (e.g. GitHub, Heroku) c1 ; c2 # run c2 after c1 Bash Tricks c1 && c2 # run c2 if c1 succeeds c1 || c2 # run c2 if c1 fails git remote -v # check remotes git pull # get updates # After you do some work... c1 & c2 # run both at once Auto complete Start typing then hit git add -A <Tab>. Hit twice for options. git commit -m "it works!" Job control git push # share updates Redirecting output into file npm start & # run in bg ls -R > all_files.txt ps # show shell's processes Bash: Searching cat a.html b.html > c.html jobs # show bg processes cat d.txt >> c.txt # Append fg # foreground last process <Ctrl+Z> # pause; put in bg find: Search by filename Piping output Hook commands up # keep background process [1] # Using wildcard for search by disown %1 # running forever # Pipe output to "grep" filter find . -name '*.py' # extension python start.py | grep "http" find . -name views.py # Exact node run.js | tail # Only end Viewing all processes find . -iname iNFo # Any case # Find modified in last 7 days find . -mtime 7 -iname info Wildcard expansions

rm *.jpg # Delete jpg files rm ./**/*.jpg # ** matches dirs ps -e # show all processes ps -ejH # show process trees ps -e | grep python # filter

Running file as bash script

Save a sequence of commands to # file with "#!/bin/bash" at top bash scrpt.sh # Always works ./scrpt.sh # Works if executable

Killing processes

kill 4264 # kill process by PID killall python # ...or by name kill -9 4264 # -9 "forces" kill

grep: Search contents of files

Search templates for "free" grep -r free ./templates/
grep -lr free . #...list names grep -ir ToDo . # Ignore case # Using Regular Expressions grep -er '(http|ftp)s?:' .