

GUIDE TO TERMINAL ON MAC

CODECADEMY “LEARN THE COMMAND LINE”

Navigating, Viewing, and Changing the File System

`pwd` outputs the name of the current working directory
`ls` lists all files and directories in the working directory
 `ls -a` lists all contents of a directory, including hidden files and directories
 `ls -l` lists all contents in long format
 `ls -t` orders files and directories by the time they were last modified
`cd` switches you into the directory you specify
`mkdir` creates a new directory in the working directory
`touch` creates a new file inside the working directory
`cp` copies files
`mv` moves and renames files
`rm` removes files
`rm -r` removes directories

Redirecting Input and Output

`cat` may be used to read, concatenate, and create files
> redirects standard output of a command to a file, overwriting previous content
>> redirects standard output of a command to a file, appending new content to old content
< redirects standard input to a command
| redirects standard output of a command to another command
`sort` sorts lines of text alphabetically
`uniq` filters duplicate, adjacent lines of text
`grep` searches for a text pattern and outputs it
`sed` searches for a text pattern, modifies it, and outputs it
`head` returns a few lines of a any input
`echo` returns a string
 `$VAR` prints the value of a variable

Configuring the Environment

`nano` opens a text editor in the command line
`clear` empties the terminal screen
~ represents the user's home directory.
. indicates a hidden file.
`source` makes the changes available right away in the session we are in
~/`.bash_profile` script file
 `alias COM="COMMAND"` creates a shortcut
 `export VAR="VALUE"` creates an environmental variable
 `PS1` is the command prompt characters
`PATH` list of directories containing scripts for the command line to execute
`USER` is the name of the current user
`env` returns a list of environment variables

Other Stuff

* wildcards are useful for operating on groups of files and directories
 examples: `file *`, or `ls *.txt`, or `rm *phrase*`
`r` makes a command recursive
`i` makes a command case independent

Philosophy

order is (1) commands (2) arguments (3) options
multiple options may be used together
multiple commands may be used together through pipelining |
working in a different directory is possible by specifying its path
there is a difference between outputting something you want and writing something you want