

STUDY GUIDE

# ACCESSING AND NAVIGATING THE COMMAND LINE INTERFACE

#### **Command Line**

- · A text-based interface.
- Synonyms: command line interface (CLI) console

#### **Terminal**

- An OS X application that provides text-based access to a computer's operating system.
- · Any device or application used for data entry and display in a computer system.
- Synonyms: client, computer terminal, terminal emulator

## File System

- A file system is a systematic way to control how information is stored and retrieved on a computer. It describes where one piece of information stops and the next one begins. Each filesystem has its own structure and logic.
- Synonyms: NTFS (Windows' File System), HFS+ (Apple's File System), file allocation table, GFS(Global File System)

#### **Directory**

- A unit, or container, used to organize computer files into a hierarchical structure.
- Synonyms: folder, catalog, drawer

#### Path

- A sequence of symbols and names that identifies a file or directory. The path always starts from your working directory or from the root directory, and each sub-directory is followed by a forward slash.
- · An absolute, or full, path begins with the root directory and specifies every directory above the terminating file or directory name.
- A *relative* path is a way to specify the location of a directory or file relative to another directory. It does not include the root or parent directory names.
- Synonyms: path name

#### Command

- The action we want the computer to take; always a single word.
- · Synonyms: utility

#### Option

- Follows the "command" in a command line; used to modify the behavior of the command in some way.
- · Synonyms: flag

### **Argument**

- · Follows the "command" and "options" (if any) in a command line and is used to explain what we want the command to act upon.
- The number of arguments used generally depends on the command; some don't need arguments, some require exactly one argument, some require many arguments, and some are flexible in the number they can take.

Command Description

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Prints the working directory; returns the absolute path name of the current

pwd -options directory

Is [-options][path/to/directory] Lists files in current directory

Is -a Lists hidden files in the current directory

cd [-options][path/to/directory] Changes the current working directory to the specified directory

cd .. Changes to parent directory

mkdir [-options][path/to/directory] Makes a new directory

rm -r [path/to/file][path/to/file] ... Removes directories or files permanently (use with caution)

rm myfile removes myfile permanently (use with caution)
mv [-options][path/to/file][path/to/directory] Moves directories or files to a new locale

mv [-options][path/to/file][NEW\_FILE\_NAME] Renames a file or directory

#### **TERMS**

On Mac, your terminal comes with a manual. To access more (a lot more) information about any command, typeman, followed by the command name, and press Enter:

You can scroll through a manual entry using the arrow keys or space bar. To quit this view and return to your prompt, typq.

# **Guiding Questions**

- 1. What are the benefits of using the CLI instead of a GUI?
- 2. Why do you need to be careful when using the CLI?
- 3. How is a shell different than the CLI?

# **Additional Resources**

- General Assembly's Original Command Line Review
  - A walkthrough created for web development students that provides additional high-level practice.