

COMMAND LINE

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INTRO TO COMMAND LINE

LEARNING OBJECTIVES

- Create folders and files using the command line (mkdir, touch)
- Change directories and list directory contents (cd, ls)
- Check current working directory (pwd)

INTRO TO COMMAND LINE

PRE-WORK

PRE-WORK REVIEW

- Have a Mac (or Linux Virtual Instance on PC)
- Open Terminal
- Be able to type

INTRO TO COMMAND LINE

COMMAND & CONQUER

AGENDA

- Introduction - GUI vs. CLI
- Codealong - Useful Shortcuts
- Introduction - Paths
- Codealong - Using Command Line
- 10 min: Independent Practice
- 10 min: Conclusion

INTRO TO COMMAND LINE

INTRODUCTION: CLI vs. GUI

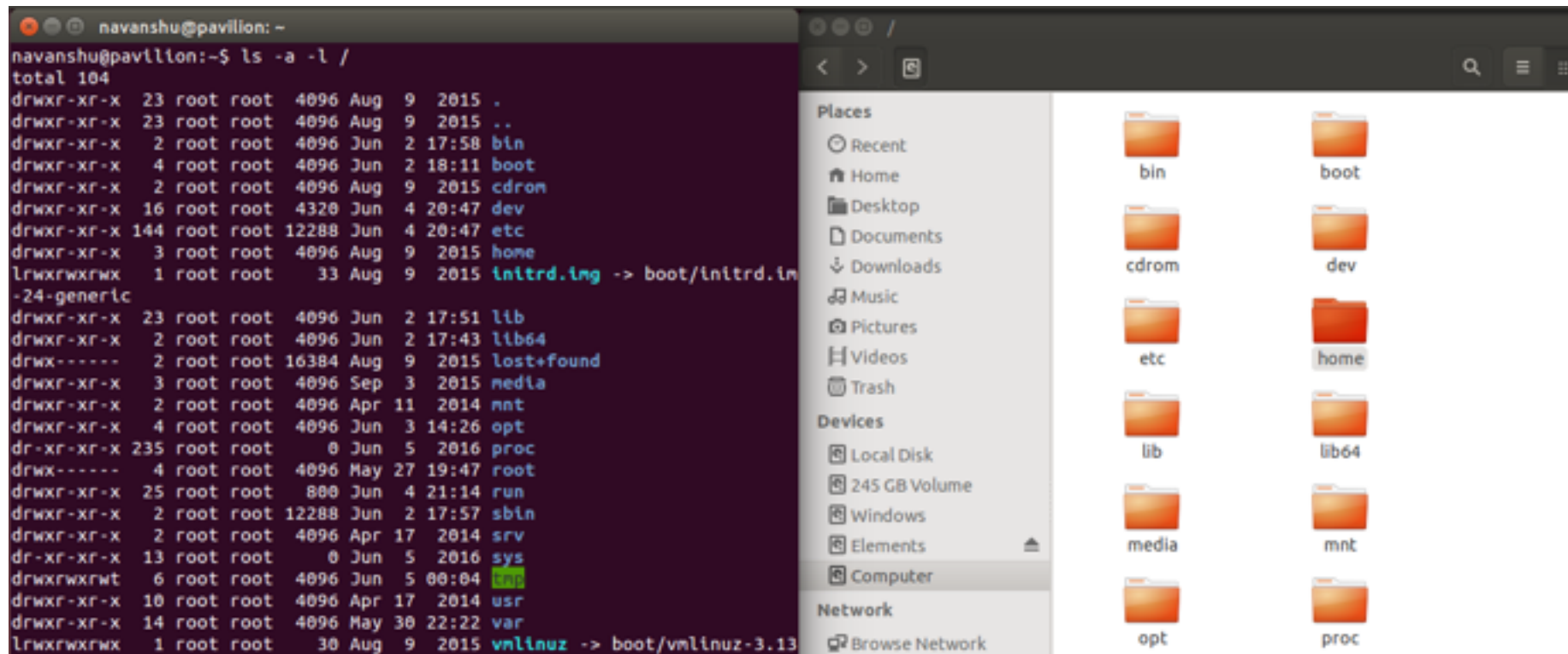
INTRO TO COMMAND LINE

▸ CLI:

- Command Line Interface
- Runs in a “Shell”

▸ GUI:

- Graphical User Interface
- Pronounced “Gooney”



INTRO TO COMMAND LINE

**GUIDED PRACTICE:
USEFUL
SHORTCUTS**

ACTIVITY: KEYBOARD SHORTCUTS



EXERCISE

DIRECTIONS

1. Find “Terminal” in your Applications > Utilities folder
2. Make a Terminal shortcut in your dock, click “options,” “Keep in Dock”
3. Open Terminal
4. Try useful keyboard shortcuts:
 - ⌘ T = Open new tab
 - CTRL C = Stop process in Terminal
 - Test with: `ping 127.0.0.1`
 - Up key: Last command used
 - ⌘ W = Close window/tab
 - ⌘ Q = Quit program

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PATHS

PATHS

- Directory: Guide to a system's paths (like a phone directory)
 - vs. Folder: actual container of the files
 - Often used interchangeably
- Root directory: the starting point from which all other folders are defined
 - usually found at `/`
- Home directory: where your unique files are stored
 - usually found at `~/Users/[Your Username]`

PATHS

- **Path:** The position of a file or a folder in a file system
- **Absolute path:** specific location of a file/folder from the root directory
 - e.g. ``Users/hboyan/a/b/file.txt``
- **Relative path:** location of a file/folder *relative* to the current position (the present working directory, 'pwd')
 - e.g. if pwd is ``Users/hboyan/a/`` just type ``./b/file.txt`` to access that same file

INTRO TO COMMAND LINE

GUIDED PRACTICE: COMMAND LINE ACTIONS

ACTIVITY: USING COMMAND LINE

DIRECTIONS



EXERCISE

What:

1. Check what directory you're in
2. See the files in that directory
3. Make a new folder
4. Navigate into that folder
5. Make files called:
 - cat.txt
 - dog.txt
 - bird.txt
 - fish.txt
6. Remove any files with 'i' in the name
7. Open the cat.txt file (then close it)
8. Navigate back to your home directory

How:

1. `'pwd'` (*present working directory*)
2. `'ls'` (*list*)
3. `'mkdir animals'` (*make directory*)
4. `'cd animals'` (*change directory*)
5. `'touch [filename]'`
(*puts a 'touch' note on a file. If the file doesn't exist, it makes a new one. Otherwise, it updates the 'last modified' date.*)
6. `'rm *i*'` (*remove*)
7. `'open cat.txt'` (*open*)
8. `'cd'` (*change directory - again*)

CHECK IN

- Name 3 files in your root directory
- Name 3 files in your home directory
- What is the difference between your root and home directories?
- What is the difference between a directory and a folder?
- Why use the Terminal at all?

TITLE

Q & A