GETTING STARTED: COMMAND WINDOW

Outline

- Getting Started
 - Idle Shell and Editor
 - Command Window

Getting Started: Idle Shell and Editor

```
Python 3.7.4 Shell
                                                                          File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
Type "help", "copyright", "credits" or "license()" for more information.
======= RESTART: E:\CSCI 135 - CS I\Fall 2019\Examples\Hello.py =========
Hello Python world!
>>>
```





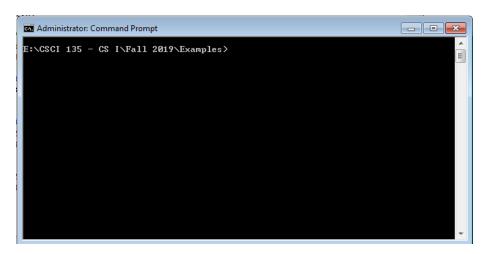
- GUI (Graphical User Interfaces)
 - Today: predominant interaction method
 - Windows, buttons, mouse
 - Advantages
 - Easier for novices
 - No commands to remember
 - Rich input and output capabilities

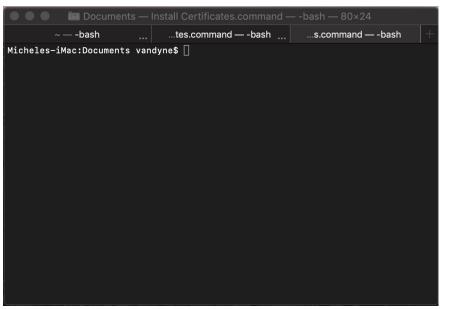




- Command Line Interface (CLI)
 - Originally the only option
 - Input by typing commands
 - Advantages:
 - Can be faster for experts than a GUI
 - Easier to automate tasks
 - Easier to hook programs together

```
E:\CSCI 135 - CS I\Fall 2019\Examples>
```





Windows 10

Cortana \rightarrow type "cmd"

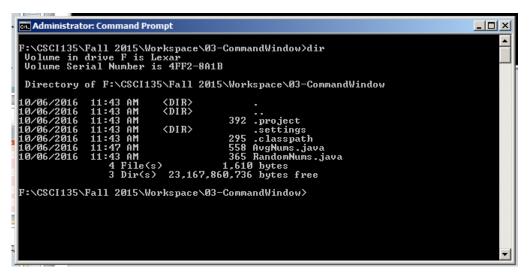
All Programs → Accessories → Command Prompt

Mac

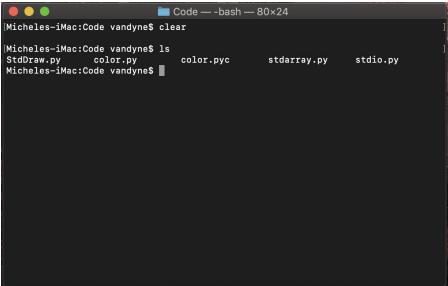
Click on Launchpad, Select "Other"

Select Terminal





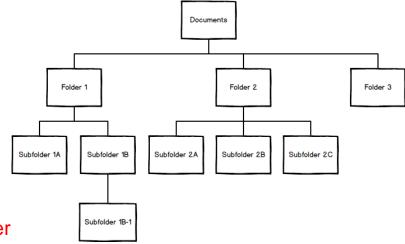
Windows
Looking at the
contents of a folder:
dir



Mac
Looking at the
contents of a folder:
Is

Directory/Folder Structure

- "Folders"/Directories organized in an upside down tree structure
 - Root is at the top, branches below
 - Files are stored in folders/directories
 - On Windows, different devices have different letters
 - Primary hard drive is C:
 - At Tech, user directories are on D:
 - Flash drives are usually E: onward
- Navigating the tree
 - To change to a directory:
 - Windows: cd C:\Documents\Folder 1\Subfolder
 - Mac: cd "/Documents/Folder 1/Subfolder"
 - Up one directory level: cd ..
 - The current directory: .
 - Where am I?
 - Windows: usually shown in the "prompt"
 - Mac: pwd



- To display the contents of a file to the screen on Windows:
 - > type Hello.py

```
E:\CSCI 135 - CS I\Fall 2019\Examples\type Hello.py
print ("Hello Python world!")
E:\CSCI 135 - CS I\Fall 2019\Examples\
```

- To display the contents of a file to the screen on Mac:
 - > cat Hello.py

Running a Python Program

- Windows or Mac:
 - > python HelloWorld.py
- If it all runs correctly, you'll get the program results and a prompt
- If things go wrong, you will get an error and a cryptic description of what went wrong
 - Will give you some clues
 - Over time, these will become more understandable



Summary of Helpful Commands

Action	Windows	Mac OS / Unix
Move into a folder	cd myfolder	cd myfolder
Move into parent folder	cd	cd
Move into a folder, absolute folder	cd \Users\vandyne	cd /Users/vandyne
List files in current folder	dir	ls
Compile and run a program in current folder	python Prog.py	python Prog.py
See what is in a text file	type Prog.py	cat Prog.py
Auto-complete filenames	<tab key=""></tab>	<tab key=""></tab>
Previous command	<up arrow=""></up>	<up arrow=""></up>

Summary

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