Command Line
Idle

- Idle is a great learning IDE, and it’s done its job this semester
- But I don’t know any developers who code in Idle.
- Most don’t even code in a Python IDE (like Pycharm)
- Many use text editors that are good for coding in multiple languages and execute the code in the command line
The command line (or terminal) is like old school MS-Dos, before computers got user-friendly with a GUI.

It’s like going ‘under the hood’ of your computer. You can actually do everything there that you can in your operating system, as well as get to hidden files.

On a Mac, search for terminal (it’s in your Utilities folder in Applications).

On Windows, you need to install a program like Bash Shell.
This ‘language’ is actually linux-based, which what is underneath a Mac’s operating system

- Raspberry Pi’s are also linux-based

- So we need to know linux commands (called unix), to navigate through our computer

- If you’re interested in this, learn enough unix for your resume
Some commands

- cd – Change directory
- cd .. – go back a step
- ls – list files in a directory
- mkdir – Make directory
- touch – Make a new file
- open – open a new file in the default program
- python program_name.py – run that program in command line
Make a new python file

- From the terminal, navigate to where ever you save your python files (you can also do cd + drag and drop the folder)
- In terminal make a new folder called ‘day_27’
- In that folder, make a new file called ‘hello_world.py’
- Open it in idle
- Add some code that requests user input
- Execute that file in the command line
Editing code right in terminal

- Some geniuses use vim to edit code right in terminal
- It’s a very ‘engineer’ way to type and is not intuitive, though once it becomes habitual it can speed up coding
- If you are interested in that, there are tons of resources to learn it, [here is an overview](#)
- To enter vim in terminal, type:
  
  `vim my_file.py`
Text Editors

- Most programmers use text editors for their coding.
- Definitely for web design they’ll use them, and very often for other languages as well. They configure they’re text editor of choice to how their preferences with various plugins to help with different languages.
- Good text editors are flexible, and as soon as you save a file with an appropriate extension, it color-coordinates and helps you code.
Some text editors

- **Sublime Text** and **Atom** are very popular. Sublime isn’t free but it just bugs you forever to pay them.
- **Text Wrangler** is very basic and easy to use.
- **Brackets** is very good for learning, especially web design.
- Just google ‘best text editors’ and you’ll find tons, and most are free.
Many people go back and forth between text editors and Terminal

Some code just in terminal with vim

Some have plugins on their text editors to execute python code right there

There is also iPython Notebook (which now has a name change), which is good for incrementally executing code and seeing what happens. It’s what I learned python on

python.org has all their own opinions about text editors and an IDE as well