## **APS106**



How Does That Work?

**Jupyter Notebooks** 



## Notebooks? Python?

- Jupyter Notebooks (.ipynb):
  - Consists of multiple <u>cells</u>
  - A cell can contain regular Python code or plain text (markdown)
  - Very good for visually explaining what is happening in your code, plots
  - You can also run samples of code at a time
  - Lecture code are in this format in this course
- Python File (.py):
  - Executable file. You can even run these on your machine without installing any IDE's!
  - Run in a linear format, from start to file.
  - Good for computation, or batching tasks, like a data engineering pipeline!
  - No intermittent output saved, no formatted text/figures like in a notebook.



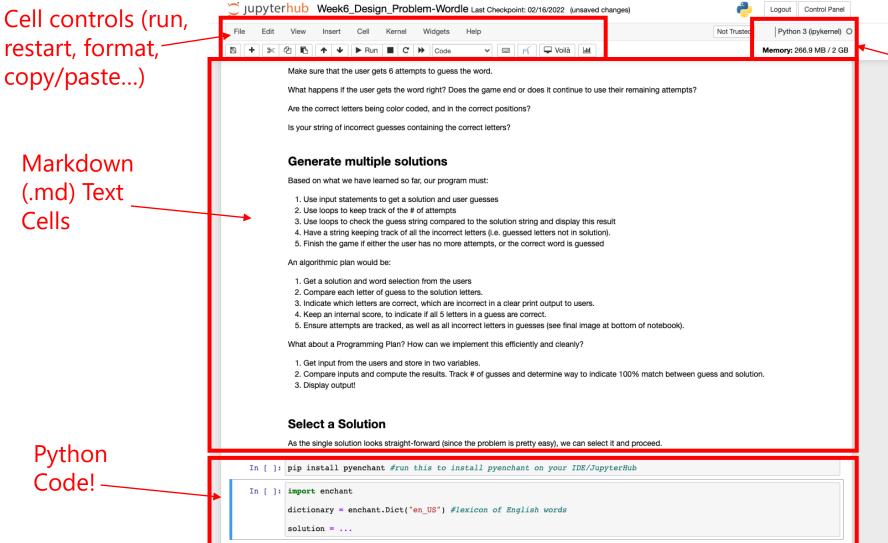
## A few different ways we can work with Notebooks

- Locally
  - Juypter IDE through Anacond Jupyter
  - PyCharm Professional IDE\* (Community version supports view (P) PyCharm
  - Visual Studio Code
  - And more :)
- Online
  - UofT JupyterHub (such as the lecture note Jupyterhub





The Anatomy of a Jupyter Notebook (.ipynb)upyter



Kernel information (Python version + memory)

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Demo.