

Optional Lab: Brief Introduction to Python and Jupyter Notebooks

Welcome to the first optional lab! Optional labs are available to:

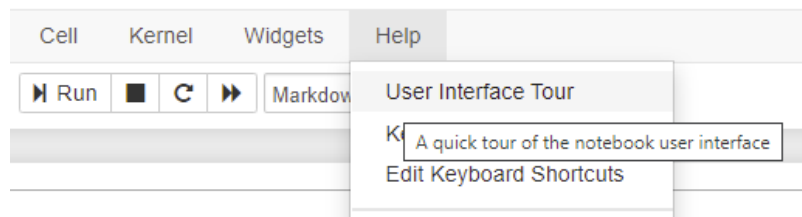
- provide information - like this notebook
- reinforce lecture material with hands-on examples
- provide working examples of routines used in the graded labs

Goals

In this lab, you will:

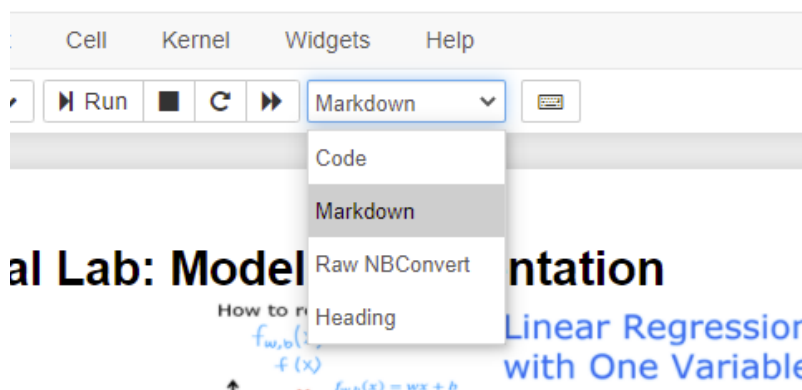
- Get a brief introduction to Jupyter notebooks
- Take a tour of Jupyter notebooks
- Learn the difference between markdown cells and code cells
- Practice some basic python

The easiest way to become familiar with Jupyter notebooks is to take the tour available above in the Help menu:



Jupyter notebooks have two types of cells that are used in this course. Cells such as this which contain documentation called `Markdown Cells`. The name is derived from the simple formatting language used in the cells. You will not be required to produce markdown cells. Its useful to understand the `cell pulldown` shown in graphic below. Occasionally, a cell will end up in the wrong mode and you may need to restore it to the right state:

ab01_Model_Representation_Soln Last Checkpoint: 6 hours



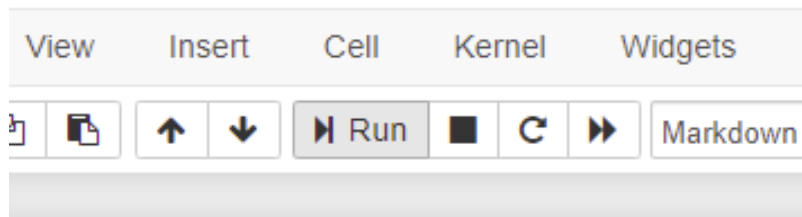
The other type of cell is the `code cell` where you will write your code:

```
In [2]: 1 #This is a 'Code' Cell
        2
        This is code cell
```

Python

You can write your code in the code cells. To run the code, select the cell and either

- hold the shift-key down and hit 'enter' or 'return'
- click the 'run' arrow above



Optional Lab: Model Renr

Print statement

Print statements will generally use the python f-string style.

Try creating your own print in the following cell.

Try both methods of running the cell.

```
In [1]: 1 # print statements
        2 variable = "right in the strings!"
        3 print(f"variable = {variable}")
        4
        f strings allow you to embed variables right in the strings!
```

Congratulations!

You now know how to find your way around a Jupyter Notebook.

```
In [ ]:
```