# Jupyter Notebook & Pandas

## Why Jupyter Notebook?

Easier to use

In-line processing – see results pretty and immediately

A standard of DS

Comes with DS packages already installed

#### Command and Edit Mode

#### **Command Mode**

- Click inside cell and hit Escape
  - a add cell above
  - b add cell belo w
  - m change to markdown

# In [106]:

#### **Edit Mode**

- Double click inside cell
- Shift + Enter runs code



#### pandas

- Your primary data science package
  - Read in and view data
  - Stores data in a data frame
  - Data wrangling
  - Summary statistics
- You must import it to use it!

import pandas as pd

#### Creating dataframes from Scratch

You provide data and column names

#### Importing .csv and Excel Files

CSVsdf\_csv = pd.read\_csv("filepath/filename.csv")

Excel filesdf\_excel = pd.read\_excel("filepath/filename.xlsx")

### Subsetting Dataframes

- Isolating one column df.columnName
   df['columnName']
- Accessing multiple columns
  df[['column1', 'column2', 'column3']]

#### **Multiple Summary Statistics**

Continuous df.describe()

Categoricaldf.describe(include=['O'])

#### IndividualSummary Statistics

- Mean df.column.mean()
- Standard Deviation df.column.std()
- Median df.column.median()
- Frequencies
  df.column.value\_counts()