Jupyter Notebook & Pandas

Command and Edit Mode

- Command mode Click inside cell, Hit Escape Key, Blue line on left
- Shortcuts
 - a add cell above
 - b add cell below
 - m change to markdown cell
- Edit mode double click inside cell, Green line on left
 Shift + Enter runs code

Pandas

• import package and give it an alias

import pandas as pd

We will be working heavily with panda's data types: series and dataframes

Creating dataframes from scratch

Provide data and column names

Importing csv and excels files into a dataframe

• CSV's

```
df_csv = pd.read_csv("filepath/filename.csv")
```

Excel files

```
df_excel = pd.read_excel("filepath/filename.xlsx")
```

Subsetting dataframes

 Isolating one column df.columnName
 df['columnName']

- Accessing multiple columns two square brackets
- df[['column1', 'column2', 'column3']]

Subsetting continued

• Indexing rows – start : stop (stops at one row BEFORE specified stopping point, i.e. if you want to stop at row 9, put 10)

df[4:10] #returns rows with index 4 – 9

df[4:] #putting no stopping point returns all rows after starting point

df[:10] #returns rows with index 0 through 9

df[:-2] # returns all rows except last 2

Useful Functions

Summary statistics of a dataframe
 df.describe() # for continuous variables
 df.describe(include=['O']) # catergorical variables

```
df.column.mean()
df.column.std()
df.column.median()
df.column.value_counts() #count for each category group
```