

Pandas!

- Library
 - a collection of code that makes everyday tasks more efficient
 - Pandas library: <https://pandas.pydata.org/>
- Dataframes
 - Object that is used to store a dataset
 - Information is organized in rows and columns
 - Simplify common operations like sorting data
- Series
 - Object used to create dataframes
 - Seen as a one-dimensional list of data
 - Single column in a dataframe
 - Like a list
- Indexing
 - `df.loc[]`
 - Name location
 - `df.loc[row_label, col_label]`
 - `df.iloc[]`
 - Integer location
 - `df.iloc[row_index, col_index]`
- **Selection**
 - The process of accessing a subset of a dataframe. You can select subsets using **`df.loc[]`** and **`df.iloc[]`**
- Filtering
 - Selecting values of a dataset where certain conditions are true
 - `Df[condition]`

Combining Data Frames

- Concatenate
 - Naively combines along an axis
 - Just squish together
- Merge
 - Combine through shared column
- Join
 - Combine using shared indices