Topic Outline: Shaping Data

Revised: April 8, 2016

Materials

- Today's handout: this outline
- Posted on Topic outlines & links page of website

Review

What's this?

??

Pandas 3: Data shaping

- Setup
 - Download IPython notebook

https://github.com/DaveBackus/Data_Bootcamp/blob/master/Code/IPython/bootcamp_pandas-clean.ipynb

and save Raw file in your Data_Bootcamp directory

In short: $GitHub \Rightarrow Code \Rightarrow IPython \Rightarrow bootcamp_pandas-clean.ipynb \Rightarrow Raw$

- Open in Jupyter

• Want operator

- Keep in mind what we want, then figure out how to get there
- Problems: numbers contain dollar signs or commas, interpreted as strings; missing values not marked; dataset contains a lot of stuff we don't want; rows and columns are flipped.
- String methods
 - Fixing oddities in data: dollar signs, commas, etc.
- Missing values
 - Identify missing values, then Pandas will automatically work around them
- Selecting variables (columns) and observations (rows)
 - Various things we don't use much
- Boolean selection
 - Things we use a lot
 - Comparisons, boolean selection
 - The isin and contains methods

After class

- Required
 - Submit Revised Project Ideas
- \bullet Recommended
 - Skim Project Guide
 - Skim Project Examples
 - Bounce around project ideas with friends