

Week 8: Pandas & Bokeh

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Matthew Turk

Broadcasting

go.ischool.illinois.edu/meet2

Pandas

- pandas.pydata.org
- Support for indexing, multi-indexing
- Data structures
 - Series
 - DataFrame
 - Panel
- Groupby, select, aggregation features
- IO features
 - Reading/writing CSV, HDF5
 - Loading data from remote sources

Data Types

- Categorical data
- Date time
- Indexing by columns or rows

What We Will Learn

- How to read in data
- How to index and select that data
- How to replace values and columns
- How to plot

Bokeh

- bokeh.pydata.org
- Multiple types of output, including static HTML
- Linked data sources
 - Brushing, linking, etc
 - Highlight multiple views of same data

Basics of Setting up a Bokeh Notebook

- Magic incantation to display in the notebook
- Supplying a data source
- Supplying Pandas dataframes to Bokeh
 - Linking multiple dataviews
 - Switching between different dataviews