

Lecture 2

Spring 2017
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Assignment 2: Visualization in Media and Literature

- Identify five quantitative visualizations
 - Cite each one
 - Three from media
 - Two from academic literature (Science, Nature, etc)
- Describe each component of the visualization
 - Explain the story each visualization tells
 - Suggest changes or improvements
- Find the input data for one and recreate visualization
 - Explain why you chose to change or retain aspects
 - Full source code for your re-creation

Topics

- Submission process
- Git / GitHub demo
- More advanced notebooks
 - Loading data & Displaying data
 - Turning things into arrays
- Components of a plot and rendering
 - Markers
 - Ticks
 - Fonts / labels
 - Annotations
 - Vector vs raster
 - Anti-aliasing
- Patches and markers
 - Colors & sizes
 - Collections & patches

Agenda

- git and github
- Notebook walkthrough
 - Data structures: lists, dicts, sets
 - Iteration
 - Plotting
 - Numpy and indexing
- Visualizing datasets
 - Dataset 1: Retail sales
 - Dataset 2: Buildings owned by IL
 - Dataset 3: Champaign permits

hub.yt