

LC: To write workflow on how we see these fitting together...

Course Goals

- Design principles, color and perception
- Disposition to stay true to the data
- Ethical treatment of data
- Visualization tools
- Critique skills and delivering strong feedback

P2PU Deliverables

- Introduction to build social presence
- Discussion prompts
- Activities
- Roles
- Assessment (aligned w Learning Goals)
- Final Project
- Potential MOOC Script

MOOC Script

Options:

- Group people together based on thematic interest in data
- Group people together based on the role they'd like to play in the group
- Create parallel groups--that switch to critique each other

Module 1: Introduction

Content:

- [NYT Peek Into Netflix Queues](#)
- [NYT How Different Groups Spend Their Day](#)
- [Hans Rosling, TED 2006](#)
- [Hans Rosling, TED 2007](#)

Exercise: Visualize Your Life

- Create a dataset of your own life events. Create a visualization of those life events using any tool.
 - <http://visual.ly/>
 - Googlemaps
 - Many eyes: [Many Eyes](#)

Module 2: Design Principles

Content:

- Design Principles of Data Visualization

Examples:

- <http://www.abeautifulwww.com/2007/05/20/visualizing-the-power-struggle-in-wikipedia/>
- <http://marumushi.com/projects/newsmap>
- <http://www.wefeelfine.org/movements.html>
- <http://www.bbc.co.uk/history/interactive/timelines/british/index.shtml>
- http://www.munterbund.de/visualisierung_textaehnlichkeiten/essay.php
- http://well-formed-data.net/experiments/elastic_lists/

Exercise: Find a visualization and critique it. Reference design principles in your critique.

Module 3: Ethics

Content:

- [Edward Tufte on How the Government Conveys Information](#)
- [Telling Stories with Data](#). Chambers, L.
- [How NOT to Lie with Visualization](#). B. Rogowitz and L. Treinish, IBM Watson, 1995
- [Useful Junk? The Effects of Visual Embellishment on Comprehension and Memorability of Charts](#). Scott Bateman, Regan L. Mandryk, Carl Gutwin, Aaron Genest, David McDine, Christopher Brooks. Proceedings of CHI '10, pp. 2573-2582, Apr 2010.
- [The Chartjunk Debate. A Close Examination of Recent Findings](#). Critique of Bateman's argument by Stephen Few, 2011.

Exercise:

- **Spot What's Wrong With this Viz.** Find a visualization that you think is not truthful with data. In a low-fi fashion, redesign it to be more honest and forthcoming.

Module 4: Group Work Starts

- Data Scraping.
 - Ethical approach to data scraping--who does it belong to?
 - What scripting algorithms shut down an API
 - Attribution
- Possibility: give 10 different thematic options that folks can select from?
- Need to balance the curation and the engagement

Module 5: Final Project Presentation & Assessment

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Next Steps:

Final project specs

Badges and assesment

Work out:

* Ways to show what the various groups are working on