



Final project

New visualization research or data analysis project

- **Research**: Pose problem, Implement creative solution
- **Data analysis**: Analyze dataset in depth & make a visual explainer

Deliverables

- **Research**: Implementation of solution
- Data analysis/explainer: Article with multiple interactive visualizations
- 6-8 page paper

Schedule

- Project proposal: Wed 2/19
- Design review and feedback: 3/9 and 3/11
- Final presentation: 3/16 (7-9pm) Location: TBD
- Final code and writeup: 3/18 11:59pm

Grading

- Groups of up to 3 people, graded individually
- Clearly report responsibilities of each member

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Design Feedback (Week 10)

Signup for a 10 min slot

tps://docs.google.com/spreadsheets/d/1BtXmbQHrC3-chPT6kKS51Q-2p9XhbiM3Qct0N847yPM/edit?usp=sharing

- M 3/9 4-6pm
- T 3/10 7-8pm (SCPD only)
- W 3/11 4-6pm

Plan to give a 5 min presentation (mostly demo) of work so far. We will give oral feedback.

Final Presentation

M Mar 16 7-10pm, Location TBD

- Short presentation (5 min, mostly demo)
- Make sure there is time for questions























Approach

Classification: Determine chart type **Mark extraction:** Retrieve graphical marks **Data extraction:** Retrieve underlying data table



























Assumptions

Bar charts and pie charts only No shading or texture, 3D, stacked bars, or exploded pies

















































Problem: Diversity of writing styles































Takeaways

A chart is a collection of mappings between data and marks

We can reconstruct this representation from chart bitmaps

Such reconstruction enables redesign, reuse and revitalization