What to Expect

MID-TERM PRESENTATIONS

- Open to the public
- Provide an overview of your project
- Abstract
- Dual Projection

The Layout

- Abstract
- Power Point Presentation
Abstract

- List authors and affiliations
  - Research Mentors
  - Visualization Mentor
  - Any other personnel (graduate students, post-docs, students); confirm listing with research mentor
  - 250 words max
  - Font: Times New Roman
  - Font size: 12

Presentations

- 10 minutes each
  - 5 minute presentation
  - 5 minutes for discussion and questions
- Must have the minimal content
  - About you – One to introduce yourself, who you are working with (mentors, etc.,)
  - State your Research Question
  - What your data looks like, what visualization tools have been used in the past, what Visualization tools do you plan to use
  - Your contribution – demo if you have it; some kind of visualization
  - Why should we care?
  - Time line for the remainder of the REU
Any Questions?

5 Types of Data Visualization People

According to FlowingData.com

Source: http://flowingdata.com/2008/06/06/5-types-of-data-visualization-people-what-type-are-you/
The Technician

- Technicians are all about implementation.
- They have a strong programming background with experience in some programming language and probably have worked with large databases.
- Aesthetics is not as important as getting things to work.
- Make it work, then make it pretty.
- Show them a visualization and they'll want to know how it was made.

Source: http://flowingdata.com/2008/06/06/5-types-of-data-visualization-people-what-type-are-you/

The Analyzer

- Data is priority to analyzers.
- Like technicians, aesthetics are not the greatest concern.
- Wants to know the relationships between variables, find positive and negative trends, and are most likely to tell you that you should have used a different type of graph or chart for that dataset.
- Tools like R, Microsoft Excel, and SAS are analyzers' weapon of choice.
- Many will have programming experience but don't code as well as technicians.
- Show an analyzer a visualization and they'll most likely comment on the (complex) patterns they see.

Source: http://flowingdata.com/2008/06/06/5-types-of-data-visualization-people-what-type-are-you/
The Artist

- Artists are obsessed with the final product - what the visualization will finally look like.
- They are the designers who are most likely to think long and hard about colors, visual indicators, and whether or not that square box should be moved up 2 pixels to the left.
- Programming is not a strong point, but if it is, it’s most likely in Processing.
- The weapon of choice though is the Adobe Creative Suite, namely Illustrator and Photoshop.
- Artists are most likely to tell you that something is ugly.

Source: http://flowingdata.com/2008/06/06/5-types-of-data-visualization-people-what-type-are-you/

The Outsider

- The outsider is the one with a complex data set but not quite sure what to do with it.
- Outsiders are the field experts who want to visualize their data but might not have the know-how to follow through.
- They can, however, provide plenty of context and usually have a sense for what their data is about.
- You'll most often see the outsider with a pen and paper explaining things to the technician, analyzer, and artist.

Source: http://flowingdata.com/2008/06/06/5-types-of-data-visualization-people-what-type-are-you/
The Light Bulb

• Light bulbs are the idea people
• They've got some programming, design, and analytical experience, but they're not necessarily experts in all three areas.
• Because of all the experience, the brighter bulbs can usually handle a large data visualization project on their own (if they had the time).
• Knowing what's possible and not possible, light bulbs lead projects and can delegate work across a team.
• It's all about the big picture for the bulbs while the brightest are like the zen masters of data visualization.

Source: http://flowingdata.com/2008/06/06/5-types-of-data-visualization-people-what-type-are-you/

WHAT TYPE OF VISUALIZATION PERSON ARE YOU?
Navigating Through the Visualization Zoo

REU Site: Research Experience for Undergraduates in Collaborative Data Visualization Applications

Vetria L. Byrd, PhD
REU Coordinator

Wednesday, June 17, 2015
1:30 PM – 2:30 PM

NSF ACI Award 1359223

A tour through the Visualization Zoo

A survey of powerful visualization techniques, from the obvious to the obscure.

By Jeffrey Heer, Michael Bostock, and Vadim Ogievetsky

And Beyond . . .
Navigating Through the Visualization Zoo

A Tour Through the Visualization Zoo

• Time Series Data
• Statistical Distributions
• Maps
• Hierarchies
• Networks

The Tour

• Time Series
  – Index Chart
  – Stacked Graph
  – Small Multiples
  – Horizon Graph
• Statistical Distribution
  – Scatter Plot Matrix
  – Parallel Coordinates
• Maps
  – Choropleth Map
• Adjacency Diagram
  – Icicle Tree
  – Sunburst Tree
• Hierarchies
  – Node-Link Diagram
  – Radial Cluster Layout
• Networks
  – Forced Networks
  – Matrix View

http://homes.cs.washington.edu/~jheer/files/zoo/
Volunteers Needed

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  – Index Chart
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