sketch-based authoring of improvisational visualizations
motivation
“napkin sketch visualizations”
Proposed Solution

- interface to protovis back-end
- web application for easy access
- entirely pen-centric
- focus on area and wedge-based visualizations for project
what will it (hopefully) look like?
Sample research idea

uni-propeller

initial research:
stress points.xls
Sample research idea

uni-propeller

initial research:
stress points.xls
Sample research idea

uni-propeller

initial research:

*stress points*.xls

+ Time
+ Force Stress
+ Acceleration
+ Data Point ID
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< 50N
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<50N
Completed Milestones (60% overall)

- learned protovis, javascript, CSS, SVG, and `<canvas>`
- determined basic interactions
- ported basic gesture recognition to javascript
- programmed a drawing application
- can produce empty visualizations at arbitrary locations (non-trivial to figure out!)
- others
Minimum Outcomes

• Given imported data, produce a visualization in under 10 seconds

• Be able to quickly create the following
  • Area graph
  • Stacked area graph
  • Layered area graph
  • Pie chart
  • Doughnut chart

• Feel free to ask me for my “target” and “extreme” outcomes
thank you and good luck!