

# sketch-based authoring of improvisational visualizations

motivation

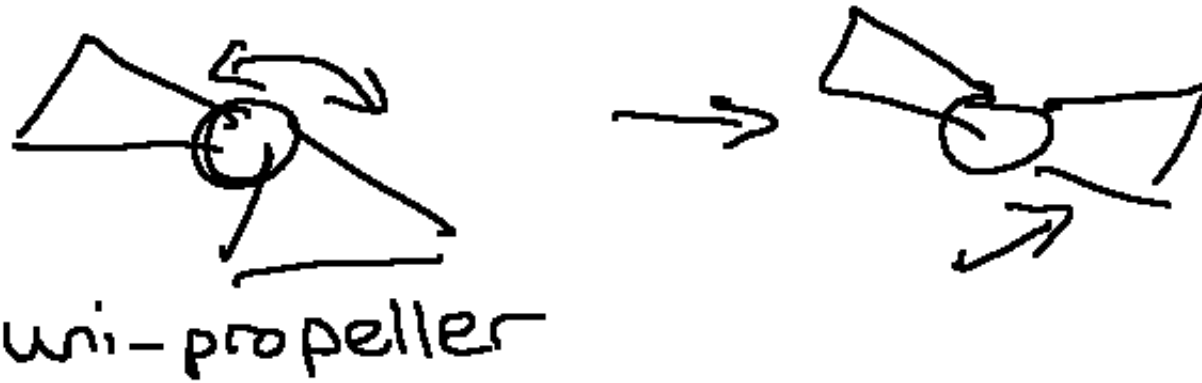
“napkin sketch visualizations”

# Proposed Solution

- interface to protovis back-end
- web application for easy access
- entirely pen-centric
- focus on area and wedge-based visualizations for project

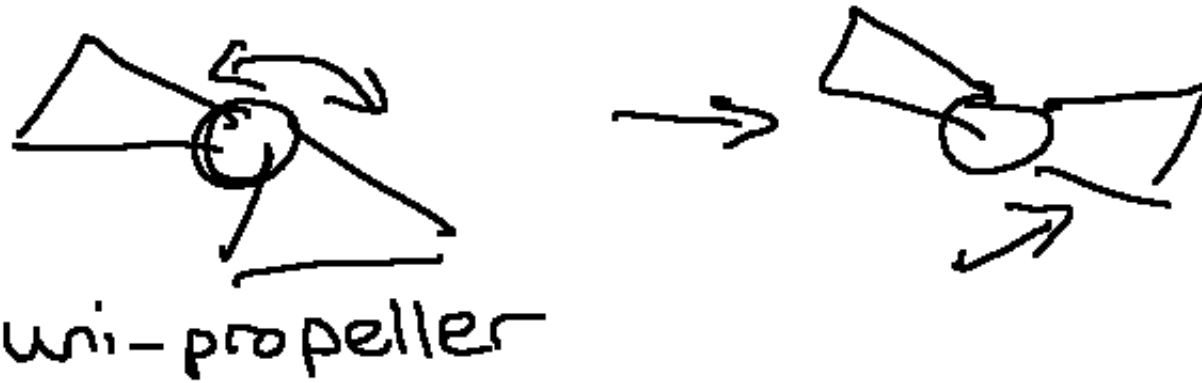
what will it *(hopefully)* look like?

# Sample research idea

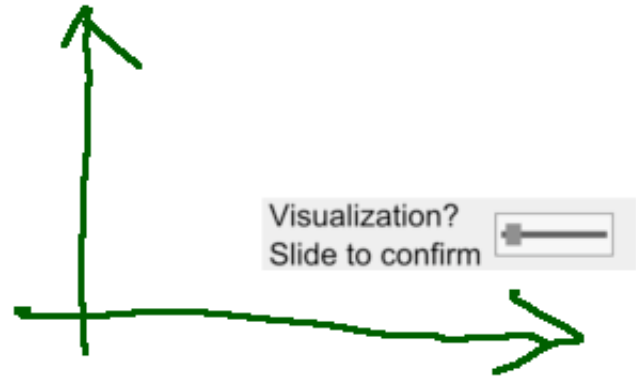


initial research:  
stress points.xls

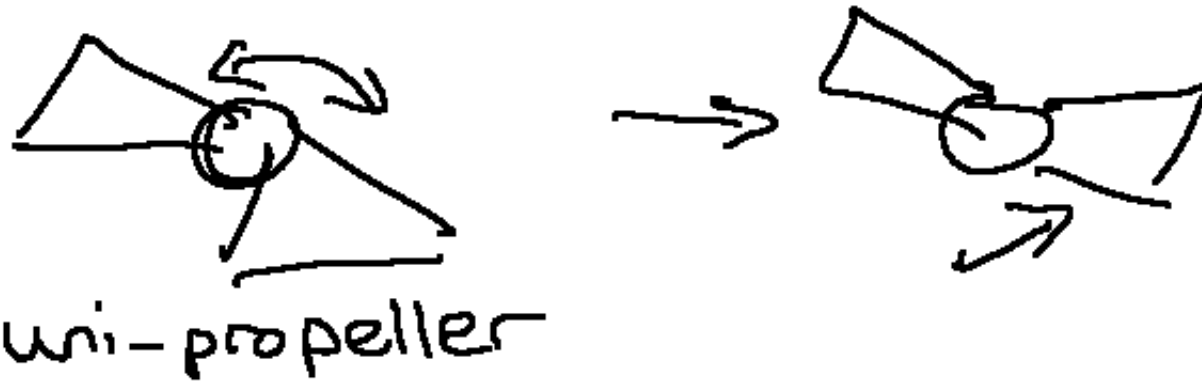
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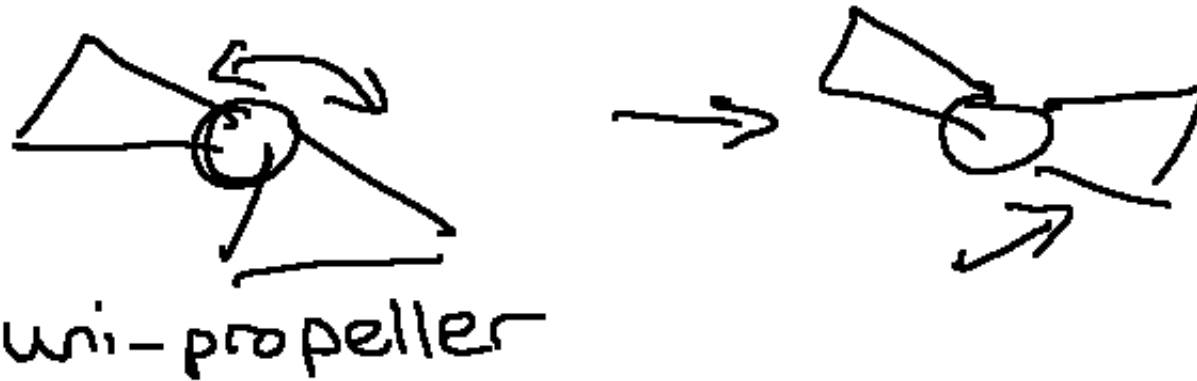
initial research:  
★ stress points.xls

- + Time
- + Force Stress
- + Acceleration
- + Data Point ID





# Sample research idea

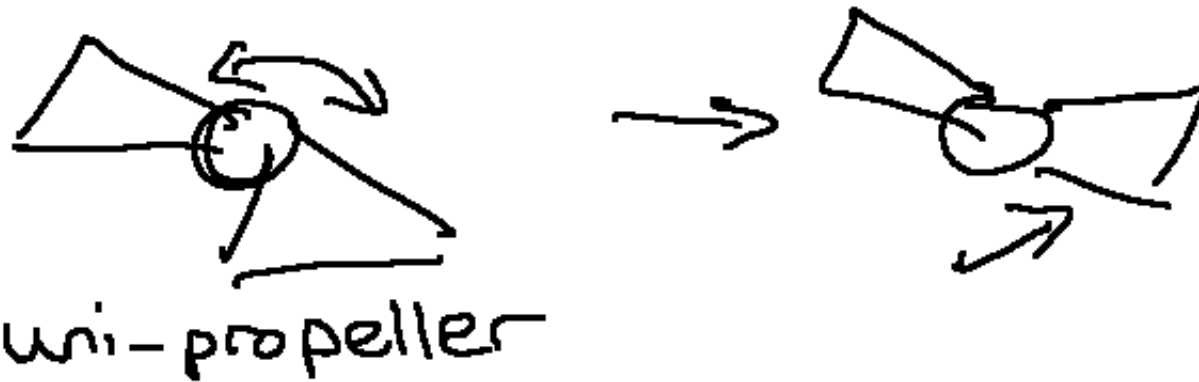


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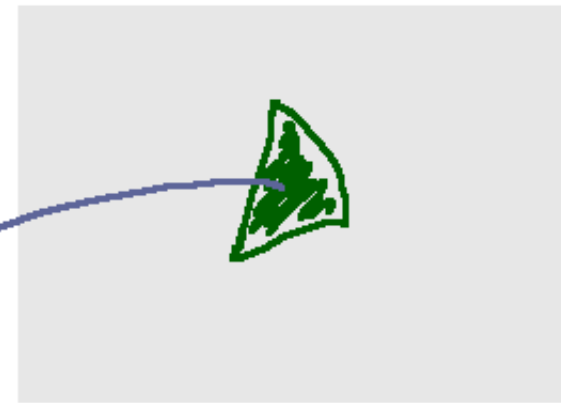
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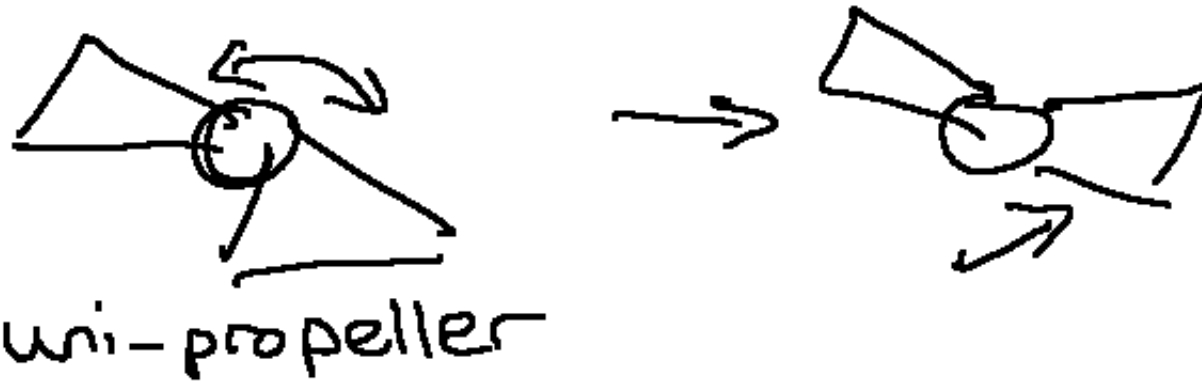
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< 50N



# Sample research idea



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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!