

## Problem

- There are many variables to consider when choosing a school
- Everyone assigns weights these variables differently


## Solution

- Visualization that allows users to select ranges for variables to reduce the number of schools
- Interactive tool to allow users to weight variables differently and explore how this changes the rankings of schools


## Data set

- 1300 US colleges and universities
- 33 variables
- Variables are arranged hierarchically




## Problems encountered

- Some data values missing
- Slider layout may use up too much screen space



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it depends on how much you value each component


## Problems with ValueCharts

- A value for a variable must represent a positive aspect in ValueCharts.
- inverse relation
- There are too many schools to list them all - sliders to narrow range
- There are too many variables to have a column for each
- multiple value charts




## Where we're at

- Become familiar with the InfoVis toolkit
- Discuss ideas with Giuseppe Carenini
- Implement preliminary interface (no functionality)


## Where we're going

- Get sliders working with a scatterplot
- Implementation with ValueCharts
- Incorporation of multiple levels of ValueCharts
- Extension?


## References

[1] Giuseppe Carenini and John Lloyd. ValueCharts: Analyzing Linear Models Expressing Preferences and Evaluation. In publication.
[2] Jean-Daniel Fekete. The InfoVis Toolkit. Version 0.6alpha2, 2004.
http://www.Iri.fr/~fekete/InfovisToolkit/
[3] US News "colleges" data set. 1995 Data Analysis Exposition sponsored by the Statistical Graphics Section of the American Statistical Association.
http://lib.stat.cmu.edu/datasets/

