

Visualizing Multi-dimensional Questionnaire Data



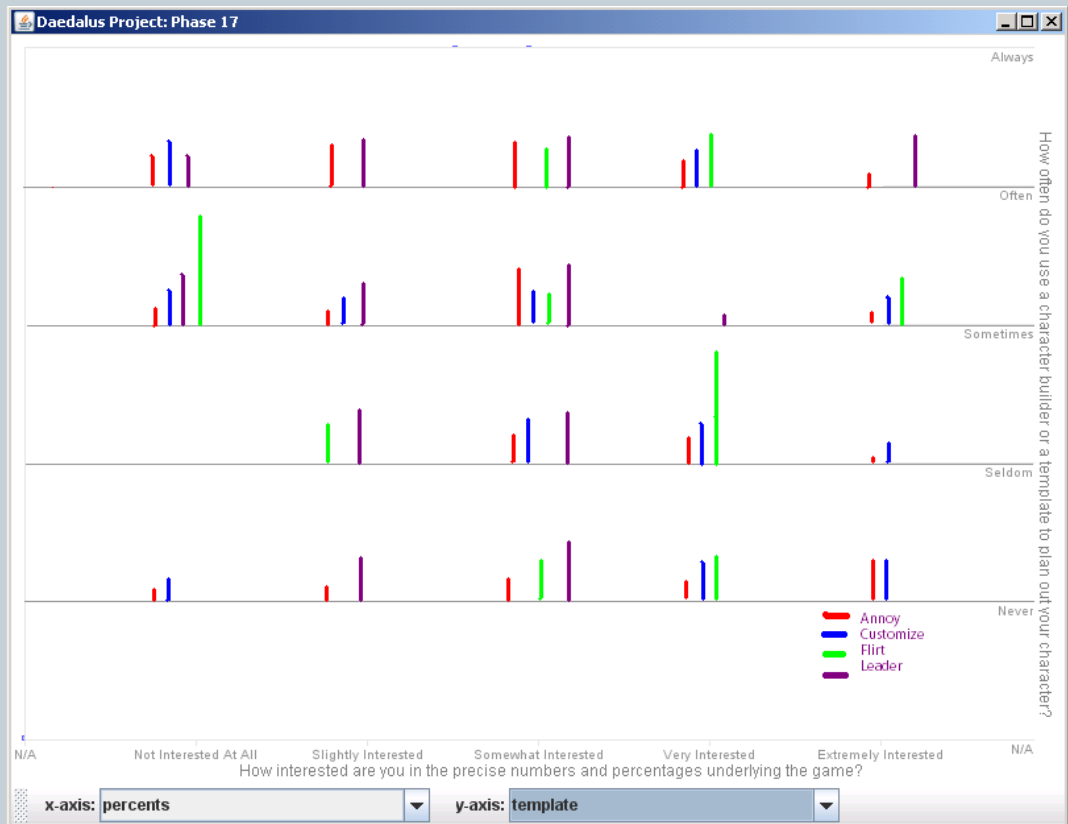
SETH HARRIGAN

**COMPUTER VISUALIZATION
FALL 2008**

Initial Concept



- Nesting charts to visualize many variables



Project focus



- Visualize Likert-type or simple nominal or ordinal questions intuitively
 - vs. Grand Tour, Principal Component Analyses, Pixel Maps
- Display inter-dependence of variables
- Develop techniques for future questionnaire surveys

Progress



- I have not discovered or invented an ideal solution

Progress



- I have not discovered or invented an ideal solution
- Instead, I suggest three 'okay' methods

Progress



- Nested Category Map
- Correlation Table
- Graph Table

Progress



- Nested Category Map



Progress



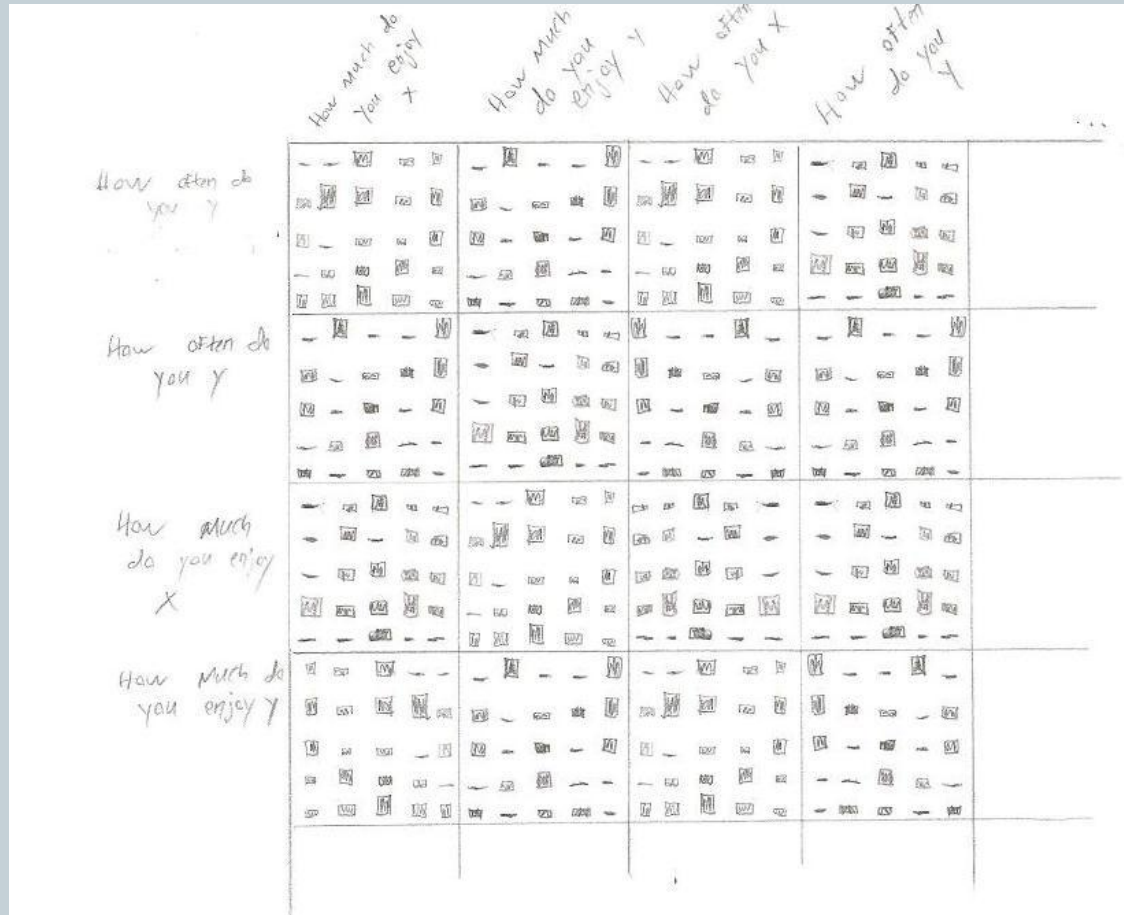
- Correlation Table (highlight table + simple stats)

	How much do you enjoy 1	How much 1	How much do you enjoy 2	How often do you drink 1	How often do you drink 2	How often do you drink 1
How often do you drink 1	1.00	0.209	0.981	0.812	...	
How much do you enjoy 1	0.198	1.00	0.872	0.092	...	
How much do you enjoy 2	0.973	0.421	1.00	0.112	...	
How often do you drink 2	0.102	0.001	0.221	1.00	...	
How often do you drink 1	1.00	
How much do you enjoy 1						1.00
						1.00

Progress



- Graph Table



Progress



- Nested Category Map
- Correlation Table
- Graph Table

Remaining Work (2 weeks)



- Finish writing code for visualizations
- Add filtering, if time allows
- Prepare presentation