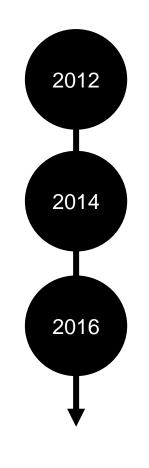


# Project 3.2 Visual Analytics StoryFacets



(Davidson) Minsheng Zheng June 27<sup>th</sup>, 2016

### My Background





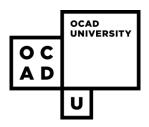




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#### **Agenda**

- My Role
- StoryFacets Overview
- Goals
- StoryFacets Demos
- Future works and Improvements
- Development & Collaboration
- StoryFacets Technical Components
- Questions



#### My Role

- Enhance the quality and the performance of the webbased visualization prototype, StoryFacets
- Design and implement additional features
- Provide technical support to the user studies of StoryFacets
- Provide technical support to comparative studies between visualization systems, Betaville and StoryFacets, on urban transportation data



#### **StoryFacets - Overview**

- Visual exploration and presentation system for relational data
- An enhanced version of GraphTrail
- One source, multi-media
- Explore with provenance
- Collaboration-minded and communication-centered design, suited for transportation planning
- Multiple views of a data analysis session (Trail, Dashboard, and Slideshow)
- (New!) csv file import and data modelling



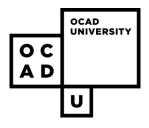
#### Goals

- 1. Data collection and loading
- 2. App performance tuning
- 3. Integration of exploration annotation and qualitative data (trail markdown card)
- 4. Implement general purpose data import (.csv file)
- 5. Manage relationship between datasets

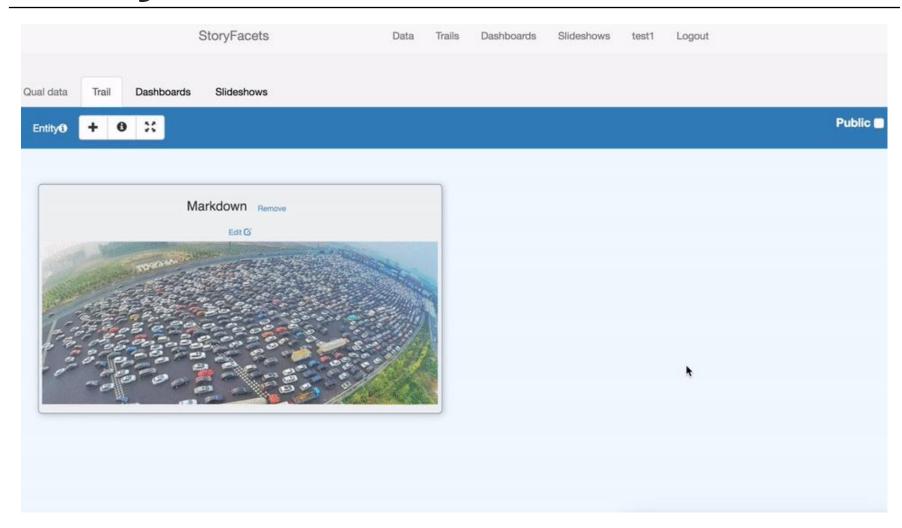


### **StoryFacets Demos**

Notice: the following demos are GIFs, it will be played in loop.

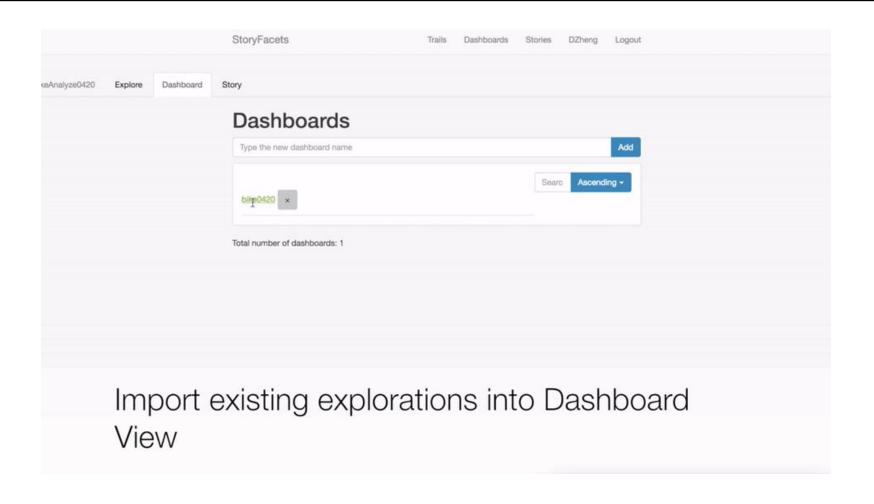


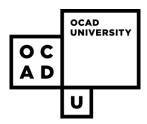
## StoryFacets - Trail Markdown



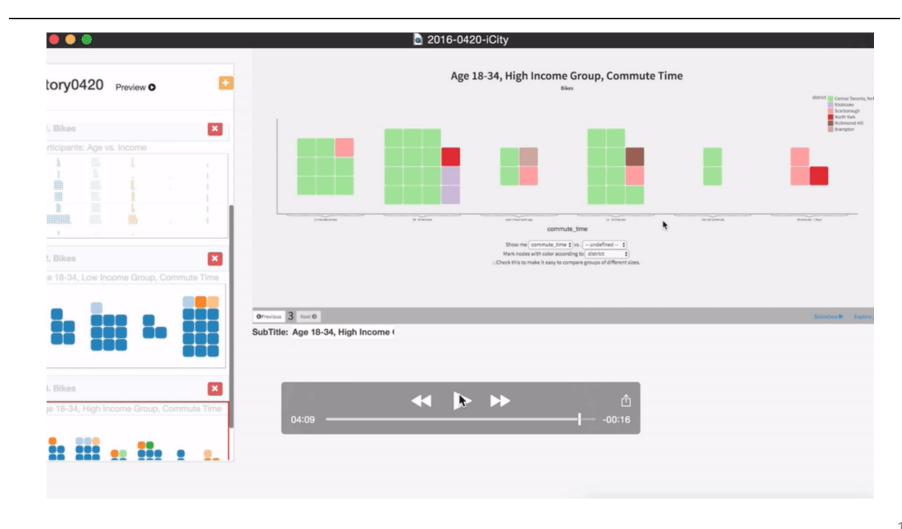


### StoryFacets - Dashboard



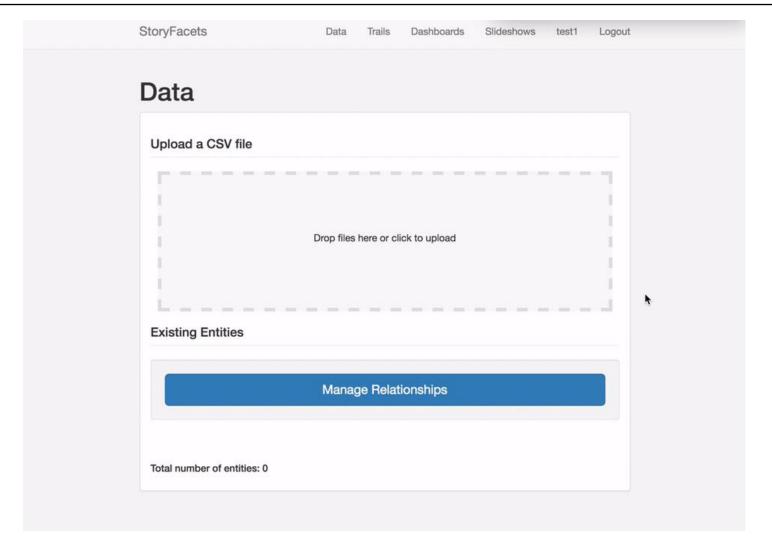


### StoryFacets - Slideshow



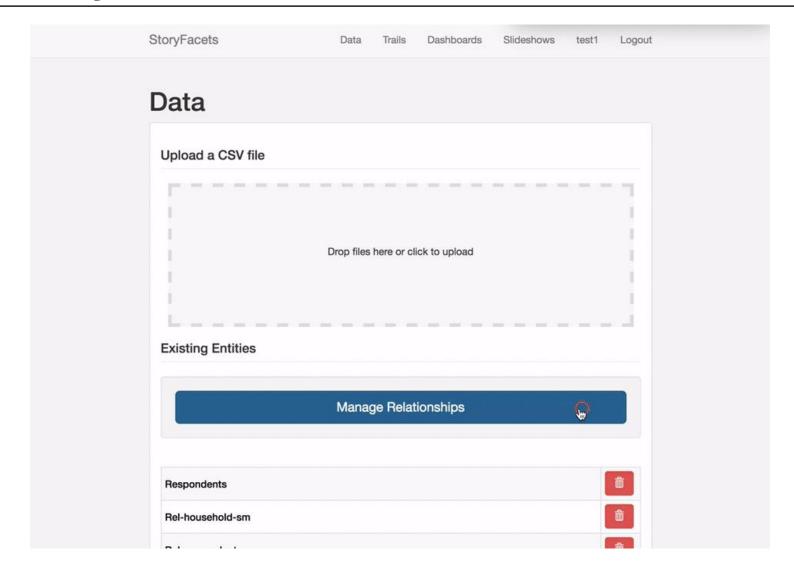


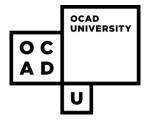
## StoryFacets – CSV File Import



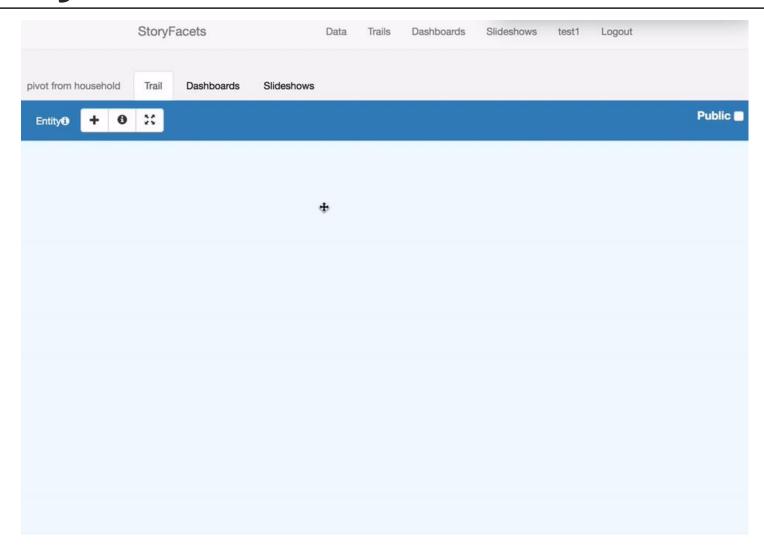


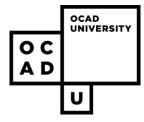
#### StoryFacets – Define Relationship





#### StoryFacets – Trail - Pivot





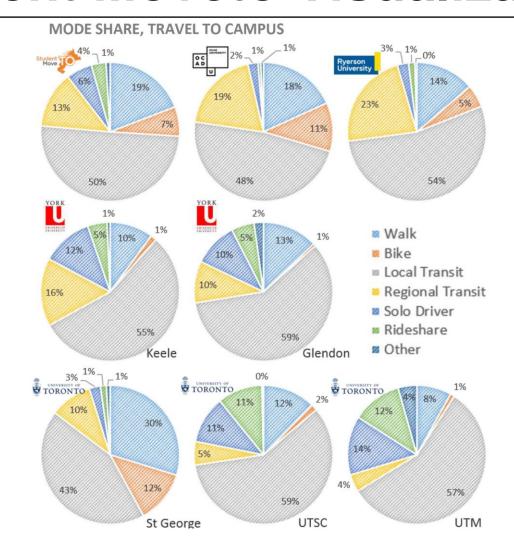
# **Example – Exploring Student Moveto Data**

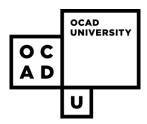
- ~15k responses
- Fall 2015
- Where students live and travel
- What influence how they schedule daily activities



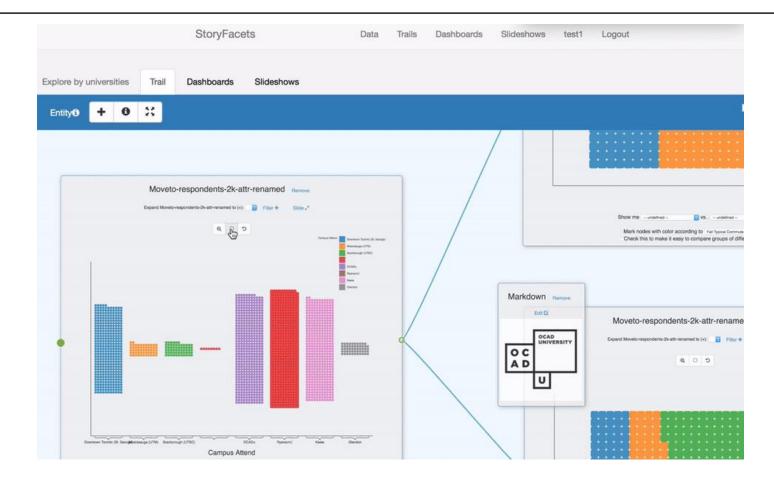


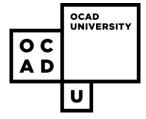
#### **Student Moveto Visualizations**



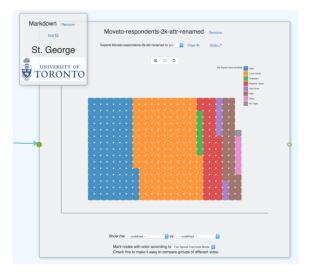


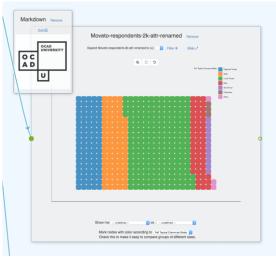
# StoryFacets Visualizations - Student Moveto data

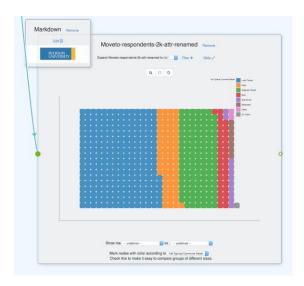


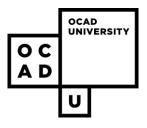


# **StoryFacets Visualizations - Student Moveto data**









### **Future works and Improvements**

- Project View
- Design and implement optimal user experience
- Incorporate more visualization chart types (e.g. pie chart, bar chart, and etc.)
- Support more import data types
- Scale StoryFacets up for massive dataset and multiple connections (users)
- Recommend exploration based on common paths for a given dataset



#### Development











#### Collaboration



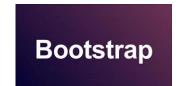




#### **StoryFacets - Technical Components**

Frontend:







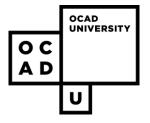


**Hosting:** 









#### **Questions**



