Graphiq Reality

Team
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Problems

Data is so abundant--how do we make sense of it all?

How do you find meaningful relationships of big data?

Maybe 2D can’t show what you want to show. What if you want to see the graph from another angle?
Proposed Solution

We create a web platform for 3D data visualizations to show data. (bar graphs, scatter plots, etc.)

Make visualizations customizable. (filters, colors)

Make users able to import their own data.

Virtual Reality utilization used to make data more intuitive to look at.
Technologies Used

- node.js
- PostgreSQL
- HTML
- CSS
- Three.js
- Heroku
Design - Generating Visualization

1. Select Visualization, Table, Columns, filters
2. Click Apply
3. Retrieve Client selections
4. Query DB
5. Returns Data
6. Generate Visualization
DEMO!
Ideas for VR controls

Object rotation instead of Camera rotation

Look down for 3 seconds, Camera slowly moves where you look

Selecting a specific data point can be done by looking at the bar with 2 seconds
Current Implementation Problems

● Proper controls for VR mode
● File upload is limited to small size
● Bar Graph Scaling/Grouping Algorithm
● Creating more meaningful data visualization for VR
● Switching from regular to VR mode and back--camera doesn’t update
Future Plans

- Perfect VR with Google Cardboard
- Support voice recognition
- Shareable links for graph
- More specialized data visualizations
- More interactivity
- More customization for graphs
- User login for file/table management
Questions or suggestions?