Using Interactive Visualization to analyze Space Assessment Data

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Key Questions

Where are students in the library?
- Seating Type Map
- Path/Route Line Map

When are students in the library?
- Weekday & Hour Heatmap Matrix
- Cycle Plot

What facilities are students using?
- % Capacity Bullet Chart

How busy/how full is the library?
- Bullet Chart
- Line Graph

Dashboard Functionality

Design Features
- Map by seating type or location
- Average % occupancy and total # of visitors
- Breakdown by activity or time of day

Interactive Features
- Select a map location to highlight or filter supporting charts
- Choose a seating type to highlight on map or a time of day to filter charts
- Select any chart to highlight location, seating type, and capacity

Designing Interactivity
- Use highlighting to provide context
- Use filtering to reduce complexity
- Provide details on demand with hover

Interactive Features
- Select a map location to highlight or filter supporting charts
- Choose a seating type to highlight on map or a time of day to filter charts
- Select any chart to highlight location, seating type, and capacity

Key Steps

1. Determine what questions you need to answer to help guide your data collection
2. Map out library areas according to seating type or location
3. Gather any supporting data you already have, such as seating capacity, and assign to mapped areas
4. Collect observation data within mapped regions
5. Use polygon tool to trace coordinates of map
6. Blend all data sources on the “Location” field and build the desired visualizations
7. Use the questions identified in Step 1 to guide your decisions about visualization chart types and features
8. Drag map and desired charts into a dashboard
9. Program interactivity (highlighting, filtering, or popups) using Dashboard Actions