CIS 467/602-01: Data Visualization

More D3

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Assignment 2

- [http://www.cis.umassd.edu/~dkoop/cis467/assignment2.html](http://www.cis.umassd.edu/~dkoop/cis467/assignment2.html)
- Should be challenging so get started early!
- Don’t change the variables by hand
- Shouldn’t need to do any data manipulation except for Part 4
- “Graduate Student” means enrolled in CIS 602-01
- Any questions?
D3 Concepts (Recap)

- Method Chaining
- Correspondence between data and visual elements
- Accessing attributes: drop second param: `.attr("width")`
- Selections (update (data), enter, and exit)
  - Enter and exit are linked to `.data()` via `.enter()`, `.exit()`
- Transitions made easy
  - `.transition()[.delay(#)].duration(#)[.attr(...)]`
- Data keys for joins
  - Second parameter of data call defines the key
  - Default key is just order
  - Often function(d) { return d; } is useful
Transforms in D3

- Translate, rotate, scale, skewX, skewY, and matrix
  - Remember the coordinate system (y-axis goes down!)
- String-based so you often use string concatenation to use variables
  - `.attr("transform", "translate(0," + yTranslate + ")")`
- If doing a lot, something like d3-transform may be useful
  - [https://github.com/trinary/d3-transform](https://github.com/trinary/d3-transform)
D3 Examples

• A few more details in Ogievestsky’s Introduction
• Continuing our fish scatterplot example