



Angular + D3

Data Visualization

—— [Sure, big data, but then what?

Edward Tufte

- [Luminary of data visualization
- [Excellent lectures
- [Four fantastic books on data visualization
- [Emphasis on data density, respect for the viewer, removing clutter and visual noise
- [Great for UI and UX as well

About D3

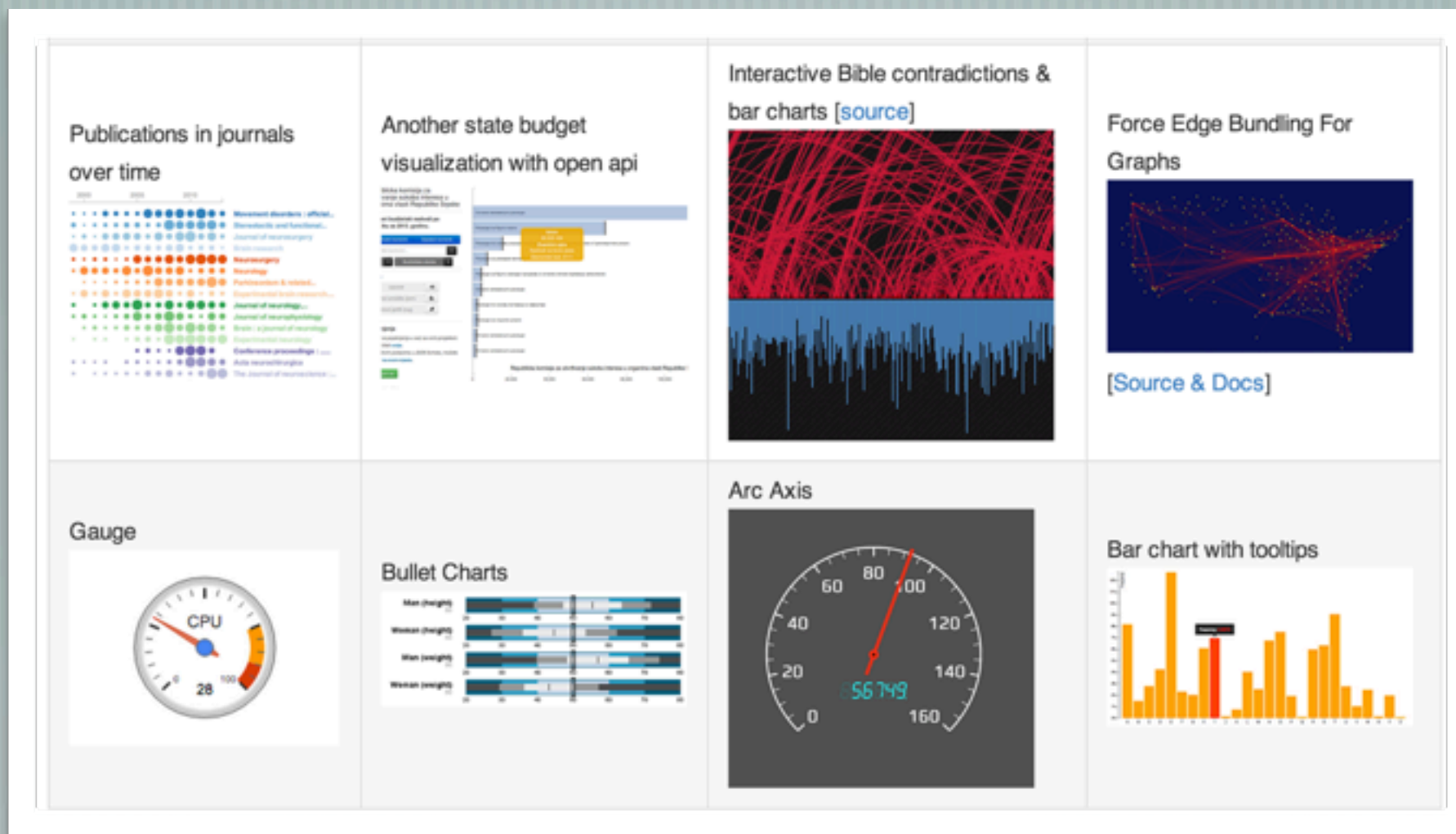
- [Stands for Data Driven Documents
- [Library for building dynamic visualizations in JS
- [Written by Mike Bostock
- [Powers the cool NY Times visualizations
- [Primarily uses Scalable Vector Graphics (SVG)

Playing Together

- [1. The vanilla D3 gauge visualization
- [2. Setting up angular
- [3. Building the directive
- [4. Connecting to the D3 object
- [5. Handling click events

Code Time!

Bring on the code!



Playing Together - Part 1

- [1. The vanilla D3 gauge visualization
- [2. Setting up angular
- [3. Building the directive

Jeff Goldblum says:

*“Oh yeah, ooh, ah, that's how it
always starts, but then later there's
running, then screaming.”*

The Battle

Playing Together

- [4. Connecting to the D3 object
- [5. Handling click events

Two Critical Pieces

- [Independent scope for each directive
- [Getting the element and sending it to D3

Gotchas

- [D3 code not always structured as Javascript classes
- [D3 code can be pretty complex
- [Use click handlers to send back events
- [Click handlers will need to call `$scope.$digest`

Polymer

Hexbin

Q&A