

$Angular + D3 \\ https://github.com/lithiumtech/angular_and_d3$

Data Visualization

Sure, big data, but then what?

Edward Tufte

Great for UI and UX as well

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

About D3

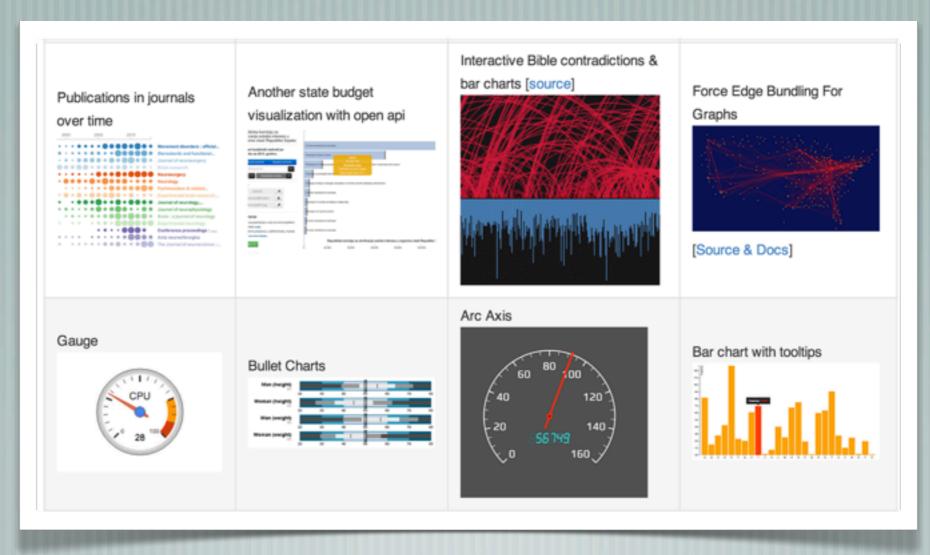
Stands for Data Driven Documents Library for building dynamic visualizations in JS Written by Mike Bostock Powers the cool NY Times visualizations Primarily uses Scalable Vector Graphics (SVG)

Playing Together

- 1. The vanilla D3 gauge visualization
- 2. Setting up angular
- 3. Building the directive
- 4. Make it dynamic with jQuery
- 5. Connecting to the D3 object
- 6. 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. Make it dynamic with jQuery
- 5. Connecting to the D3 object
- 6. Handling click events

Two Critical Pieces

Independent scope for each directive

Getting the element and sending it to D3

Gotchas

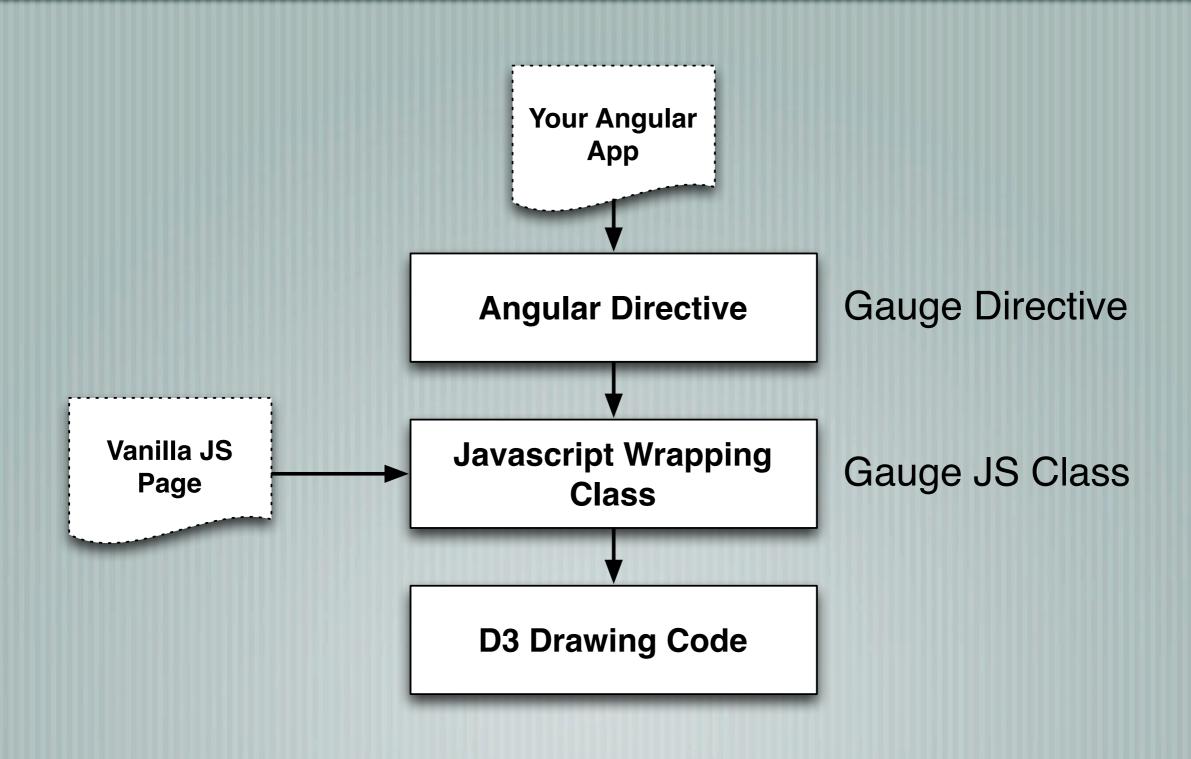
D3 code not always structured as Javascript classes

D3 code can be pretty complex

Use click handlers to send back events

Click handlers will need to call \$scope.\$digest

Maintainable D3





D3 Resources

D3.chart nvd3 & angularis-nvd3-directives (requires unique IDs) dangle.js angular-d3-directives (dependency injected D3) angular-treemap on lithiumtech



