

Daniel Kunin

#### Outline

- What is D3.js and Setup
- SVG, Scales, and Axes
- Selections and Data
- Shapes and Transitions
- Questions and Resources

**Example Visualization** 

### What is D3.js?



Mike Bostock

- Data-Driven Documents
- JavaScript library for data visualization
- Developed at Stanford in 2011
- Used by NYT and 538

**Data** Elements

#### HTML/CSS/JS

HTML



- Document Structure
- Text & Content

CSS



- Layout & Position
- Style & Color

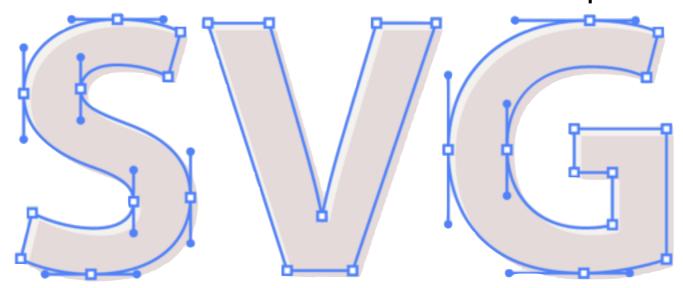
JavaScript



Functionality

† D3.js

#### Scalable Vector Graphics



- Graphical elements are in the DOM
- Easily create basic shapes: <circle> , <ellipse> ,
   <polygon> , <polyline> , <rect></pi>
- "Canvas" to render D3.js visualization on

## Getting Started

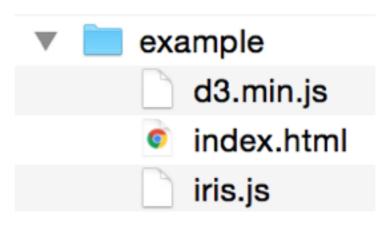
github.com/danielkunin/Brown-Datathon-2017

(1) Download

(2) Find

(3) Oper

Clone or download ▼



```
index.html

1 <!DOCTYPE html>
2 <neta charsets"utf-8">
3 <title>Iris Flower Data Visualization</title>
4

5 <style>
    .axis path,
    .axis line {
        fill: none;
        stroke: black;
        stroke-width: 2;
        shape-rendering: crispEdges;
}

12     .axis text,
14     text.label {
        font-family: "Helvetica Neue";
        font-size: llpx;
        fill: black;
}

body {
        text-align: center;
}

svg {
        cwrsor: pointer;
}

4     

4     

6     

6     

7     

6     

7     

8     

9     

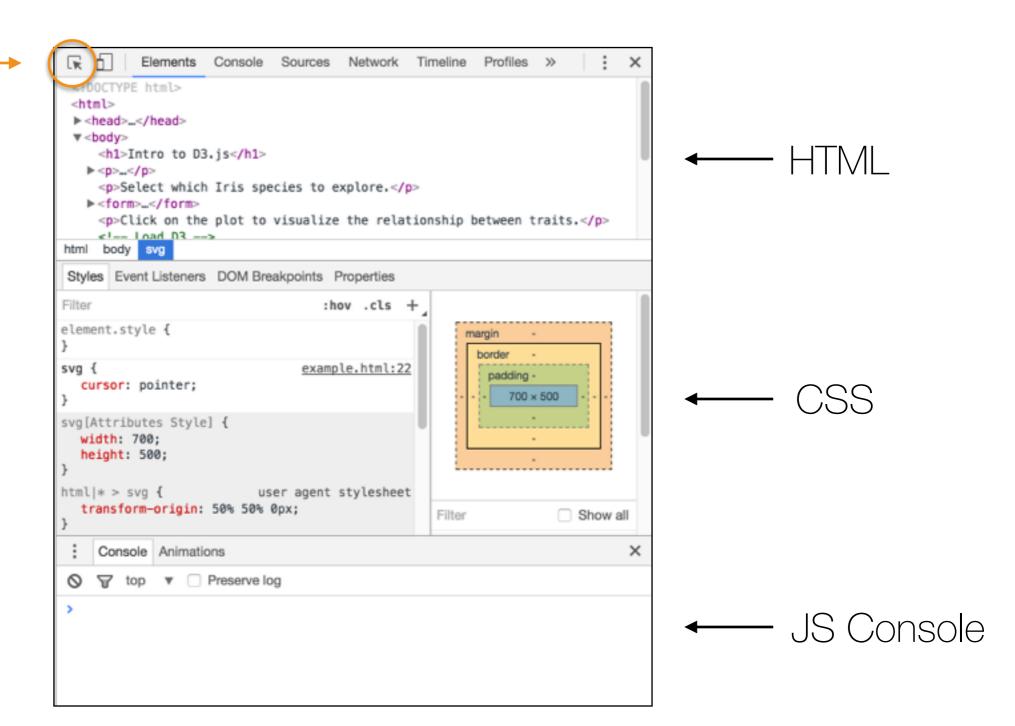
10     

11     

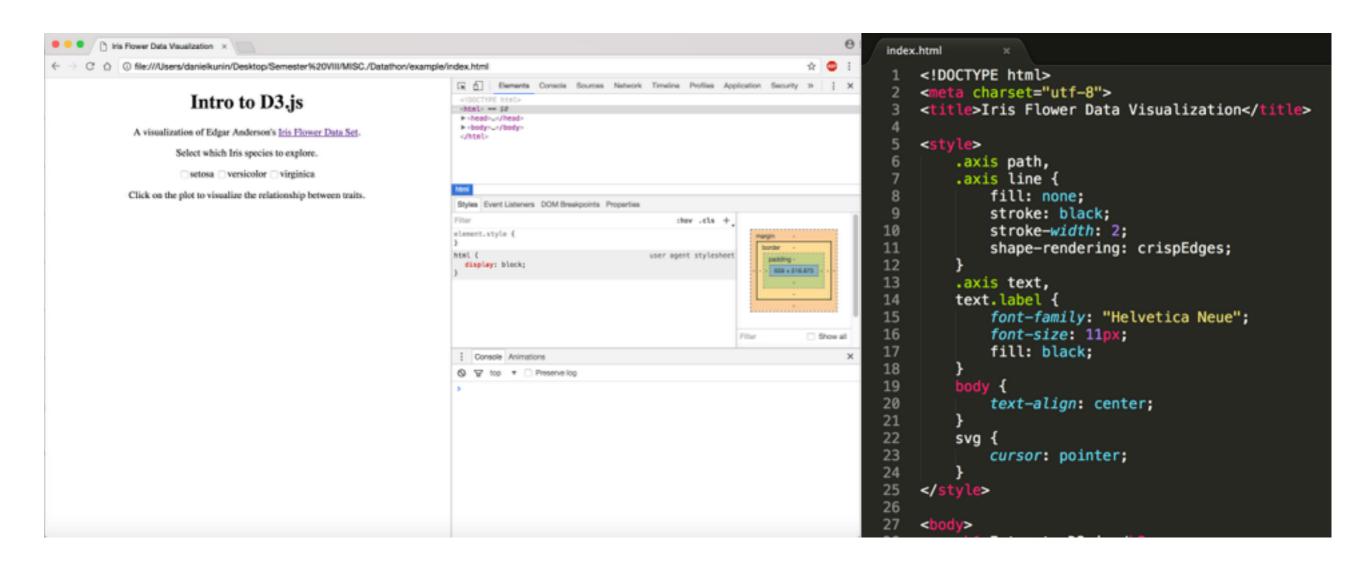
12     
13     
14     
15     
16     
17     
18     
18     
19     
19     
10     
10     
11     
10     
12     
12     
13     
14     
15     
16     
17     
17     
18     
18     
19     
19     
10     
10     
11     
10     
12     
12     
13     
14     
15     
16     
17     
17     
18     
18     
19     
19     
10     
10     
11     
12     
10     
12     
12     
13     
14     
15     
16     
16     
17     
17     
18     
18     
19     
19     
19     
10     
10     
11     
12     
10     
12     
12     
13     
12     
14     
15     
16     
16     
17     
17     
18     
18     
19     
19     
10     
10     
10     
10     
11     
11     
12     
12     
13     
14     
14     
15     
16     
16     
17     
17     
18     
18     
19     
19     
10     </pr
```

#### Inspector

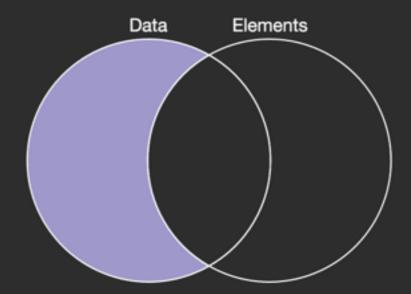
#### **Selector**



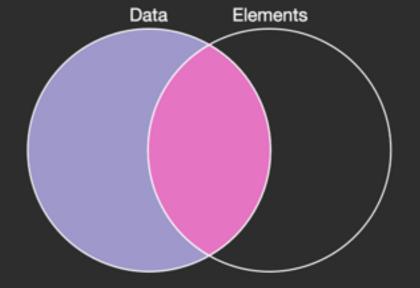
#### Demo



# Enter



# Update



Exit

