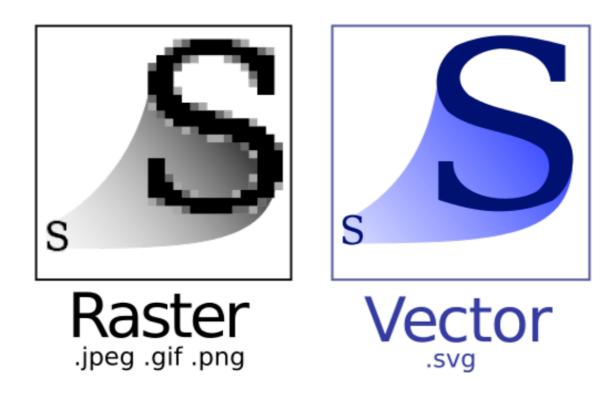
### What is D3?

1,000 Foot View

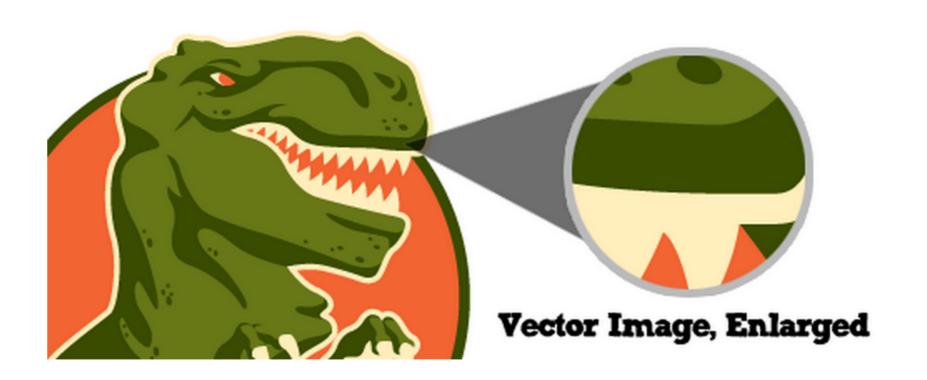
- D3 is an open source JavaScript framework
- Similar to jQuery
  - But allows "data-binding," a (or perhaps the) key component of D3
  - Data binding allows you to bind data to DOM elements, like tags.

• D3 can use SVG (scalable vector graphics)

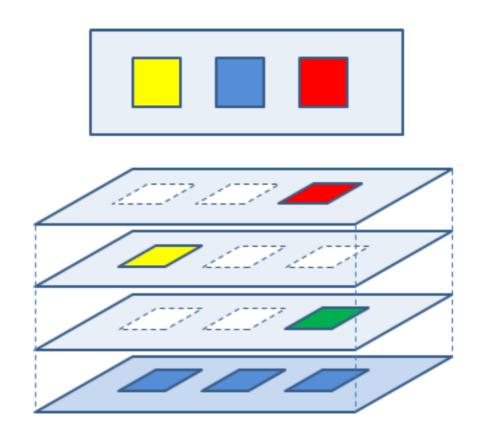


- Raster < Vector</li>
- SVG's consist of DOM elements





SVG works with layers over layers



 Sometimes what you're looking for is there, just underneath something else.

## Say it again?

- D3 is a JavaScript framework for building data visualizations
- D3 binds data to DOM elements on an SVG, which acts like your canvas

# The Building Blocks of a D3 Visualization

#### HTML

- HyperText Markup Language
- The initial setup for your D3 visualization
- Provides the structure that you work in

#### CSS

- Cascading Style Sheets
- The look of your D3 visualization
- Maps visual attributes to HTML objects

## JavaScript

JavaScript then says how your visualization works

```
<!DOCTYPE html>
    <html>
      <title>D3 Work</title>
        <script src="http://d3js.org/d3.v3.min.js" charset="utf-8"></script>
    <style>
10
      font: 10px sans-serif;
12
13
14
    </style>
16
17
         Hey! We're learning D3! 
20
        function somethingCool() {
            d3.select(this)
               .style("color", "red");
25
26
27
        d3.select("p")
        .on("mouseover", somethingCool)
30
        </script>
```