D3

Data
Driven
Documents

First Steps

Hello
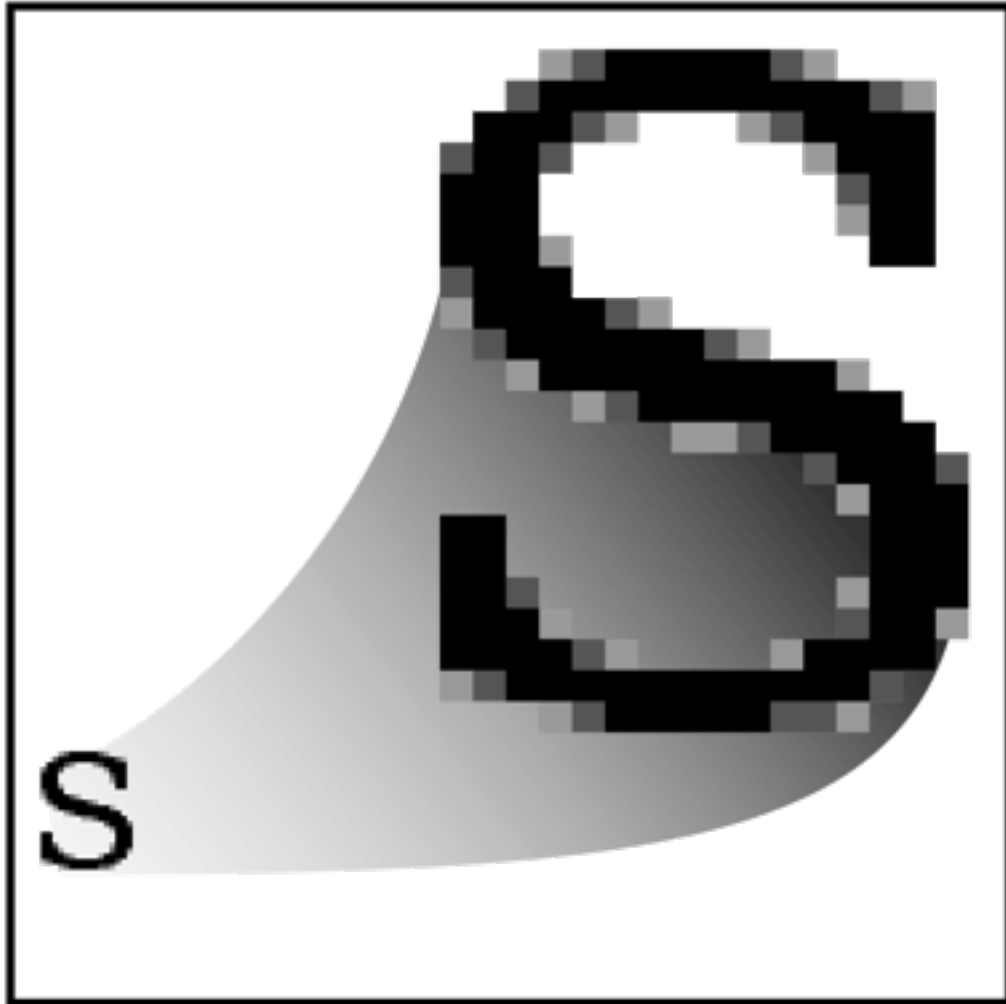# World!
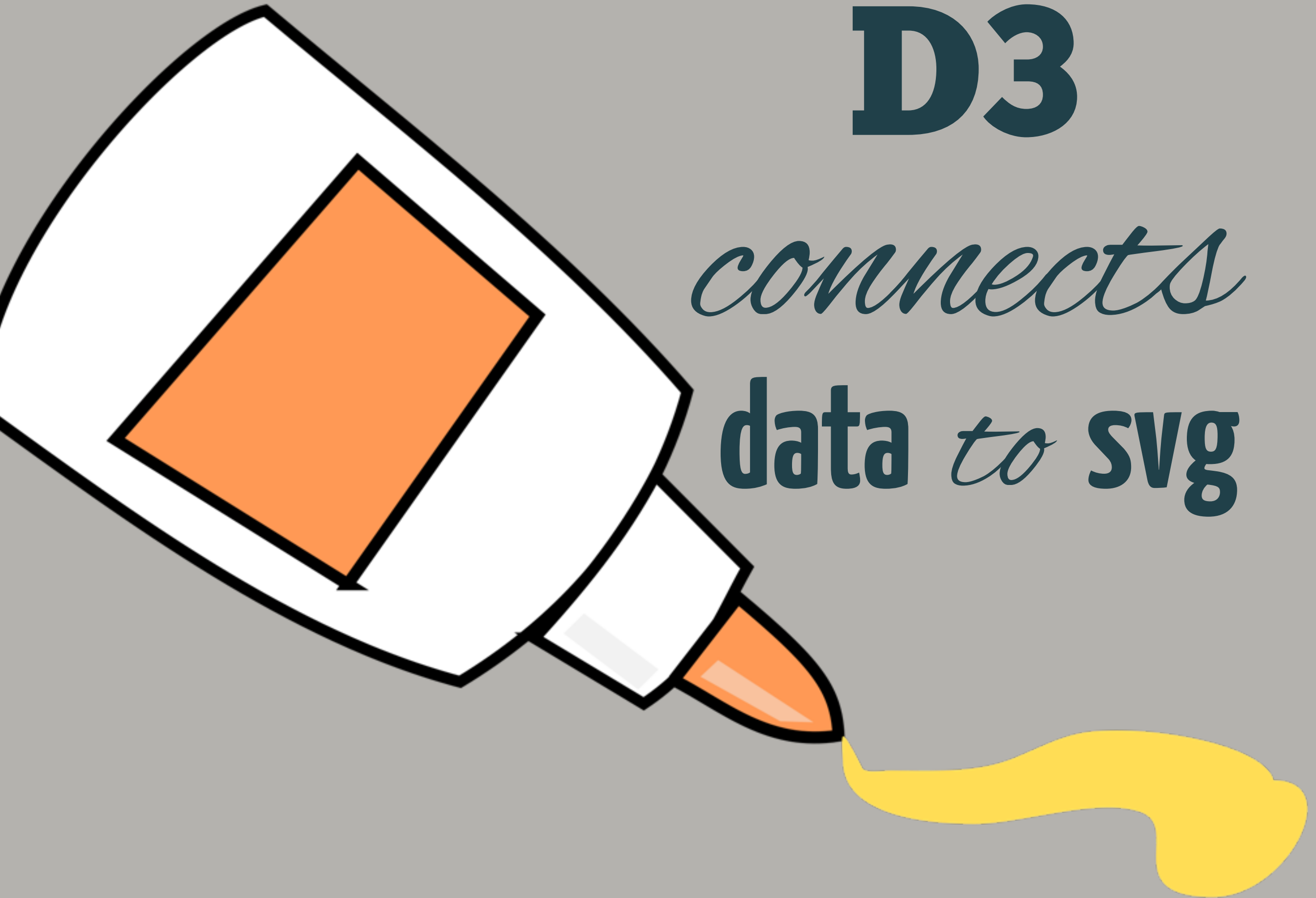
D3

connects

data *to* svg

Building Blocks

Scalable Vector Graphics (SVG)

XML-based **vector image format** for two-dimensional graphics

Raster

.jpeg .gif .png

Vector

.svg

SVG Basic Elements

svg — container element
circle, rect, line — basic shapes
path — drawing paths
g - used for grouping
text - for text

<div id='test'>   d3.select('#test')
<div class='test'> d3.select(.test)

SVG Path

<path d = "M 0,300 A 200, 200 0 0, 1, 400, 300"/>

- M = move to
- L = line to
- H = horizontal line to
- V = vertical line to
- C = curve to
- S = smooth curvet
- Q = quadratic Bezier curve
- T = smooth quadratic Bezier curve to
- A = elliptical arc
- Z = close path

Basic SVG Manipulation

rxYbbN
A PEN BY CAPTAIN ANONYMOUS

Save Fork Settings Change View Log In Sign Up

HTML × Tidy ×

1 <div id="canvas"></div>

Pen Settings

HTML CSS **JavaScript** Behavior

JavaScript Preprocessor ?

None

Add External JavaScript ?

These scripts will run in this order and before the code in the JavaScript editor.
You can also link to another Pen here, and it will run the JavaScript from it. Also
try typing the name of any popular library.

≡ https://cdnjs.cloudflare.com/ajax/libs/d3/3.5.6/d3.min.js ×

≡ http://codepen.io/username/pen/aBcDef ×

Quick-add: --- + add another resource

Analyze JS **via** JS Hint

ale(' + scale_x + ',' +
le_y + ')')

current_id += 4
if (current_id >= 1750) {

    current_id = 0
}

}

function translate(x, y) {
    return 'translate(' + x +
+ y + ')'
}

Save & Close

Happy Recursive Trees

# Visualizing Lots of Data

Making sense out of numbers.

Monthly Hourly Load Profile Data Tables
(kW, See Charts Above)

Hour	Jan	Feb	Mar	Aprl	May	June	July	Aug	Sept	Oct	Nov	Dec
1	477	470	388	342	305	367	439	412	345	306	347	419
2	471	465	381	337	295	348	424	400	337	300	342	412
3	470	464	381	338	288	336	412	388	333	299	341	412
4	474	467	385	342	288	332	409	383	333	302	345	415
5	479	473	393	346	289	334	413	382	337	307	350	418
6	495	488	411	359	299	352	429	395	349	321	364	432
7	550	545	467	413	350	416	490	452	402	373	419	486
8	658	646	570	513	458	547	615	573	514	474	522	591
9	751	734	655	598	559	673	731	688	618	565	610	681
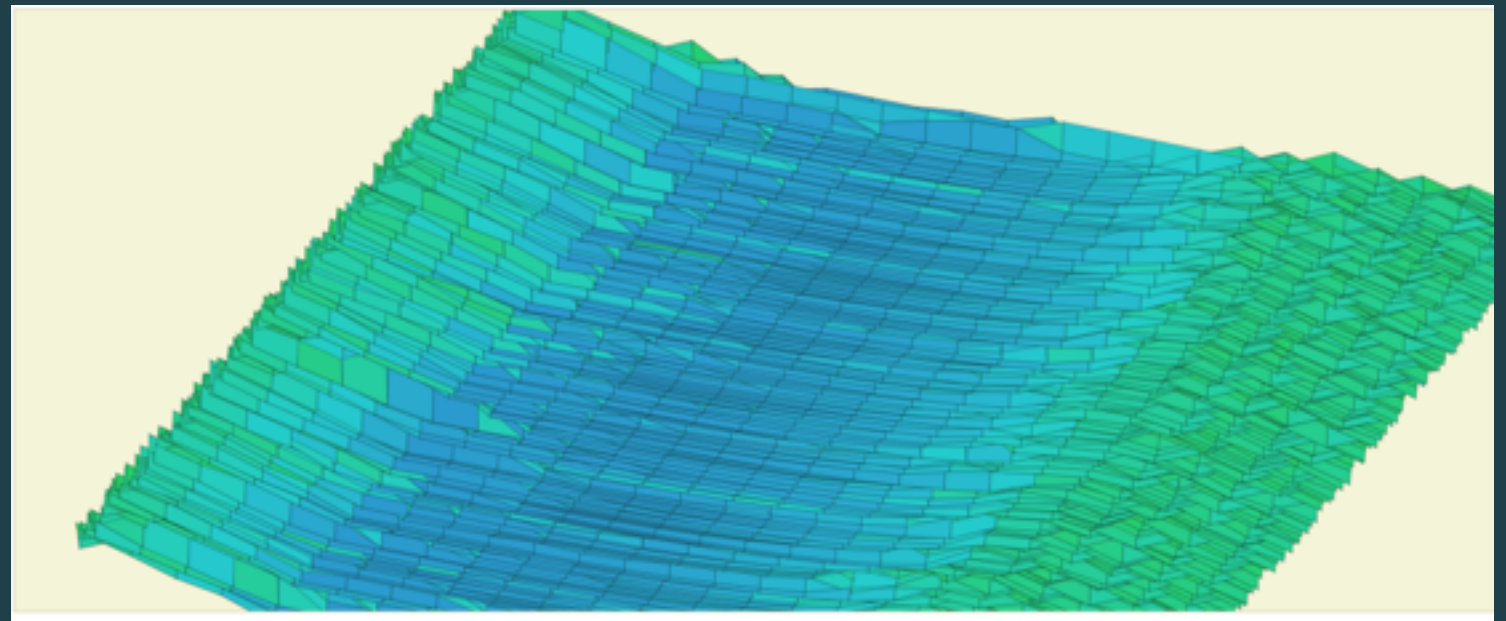
Data Viz with dimple

Encapsulating Complexity

Integration with Angular