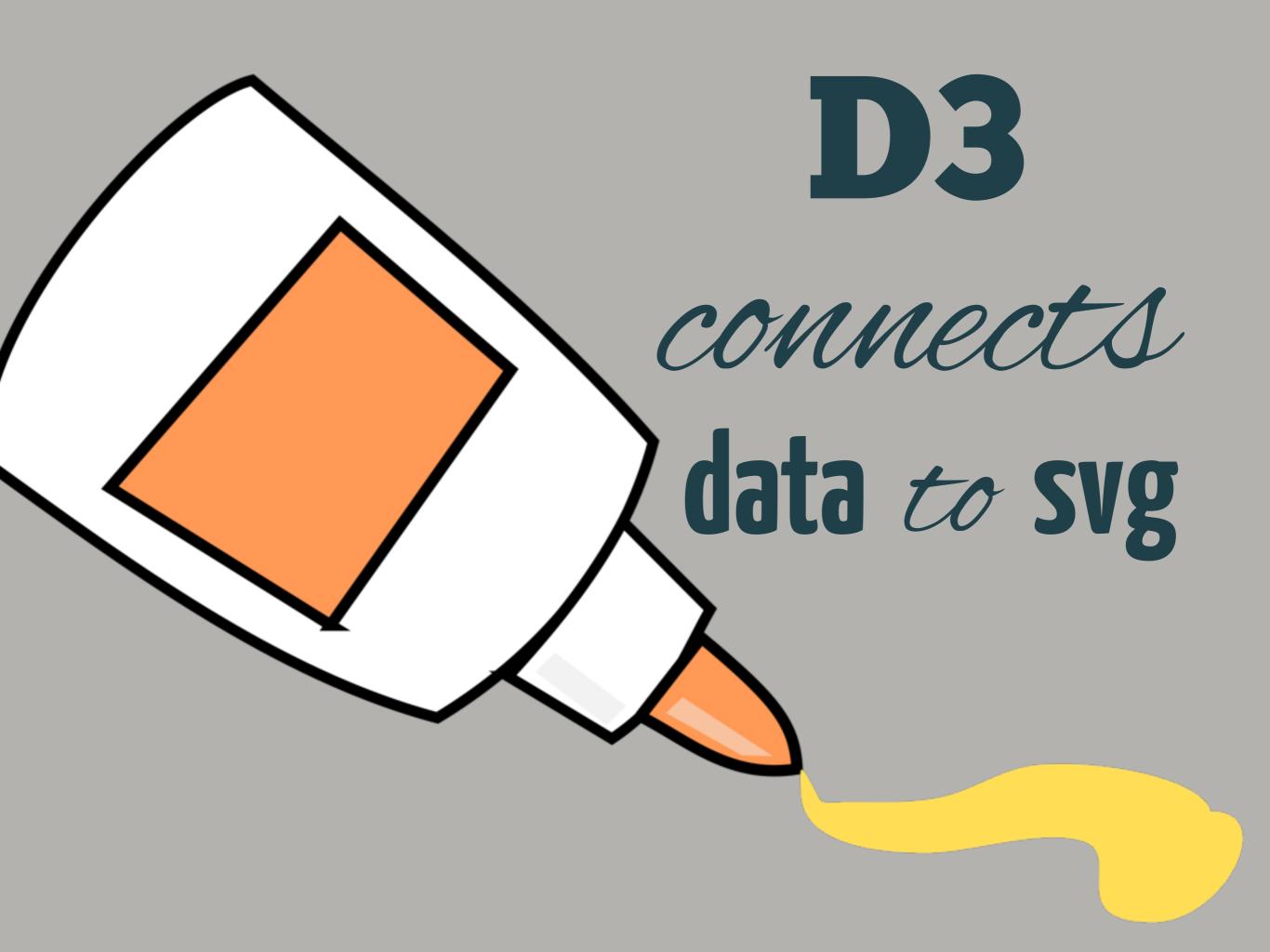
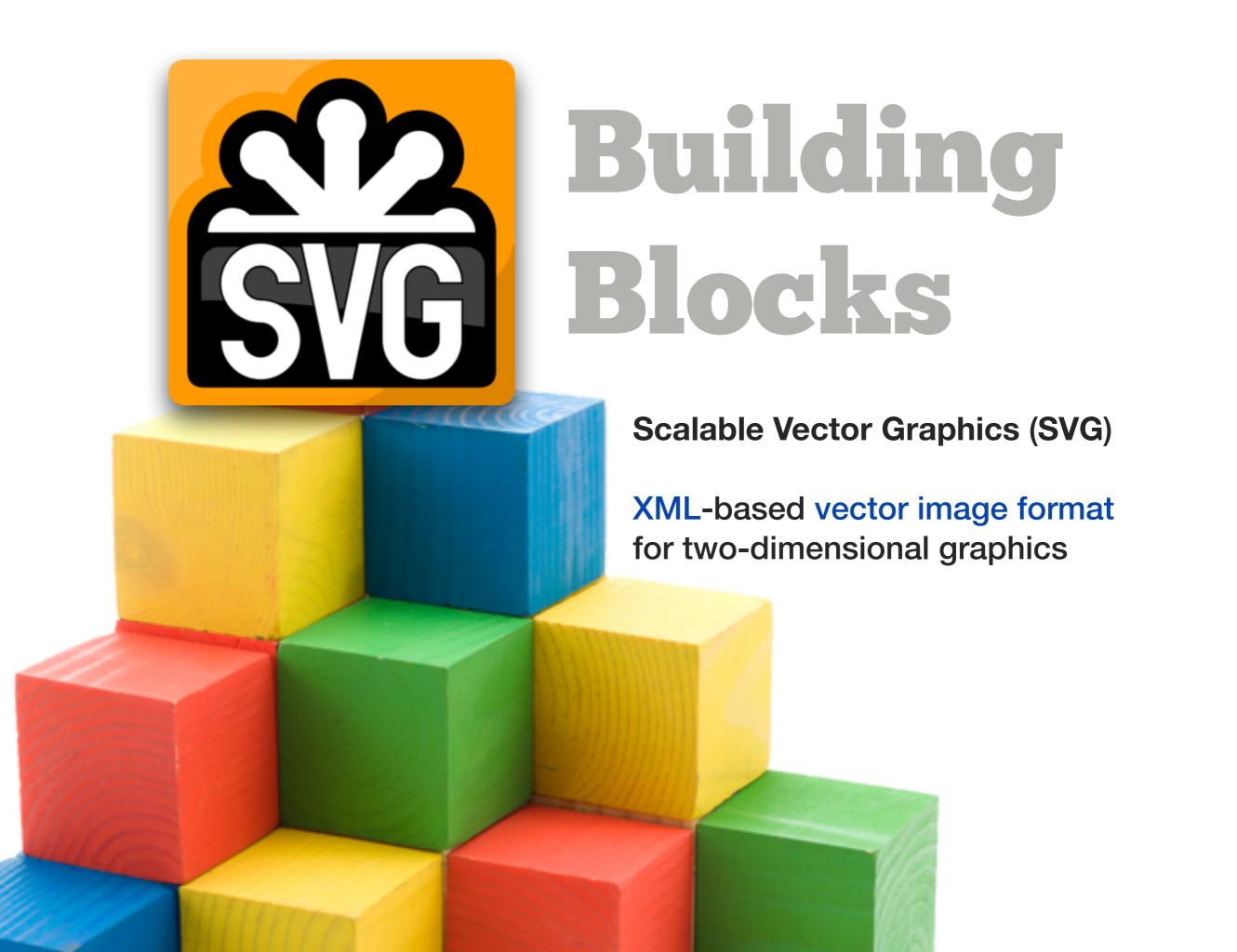
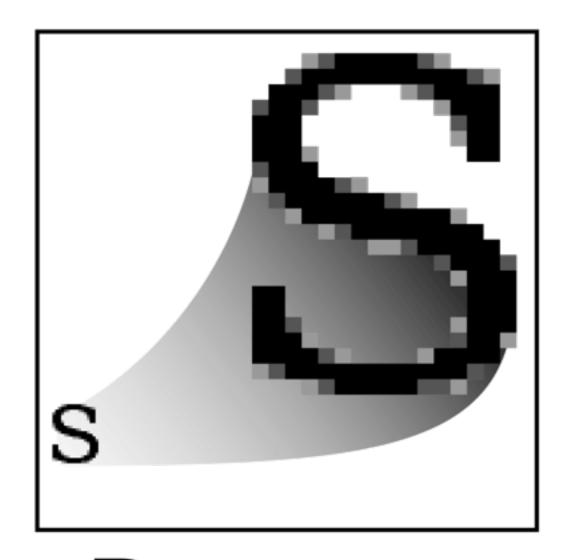


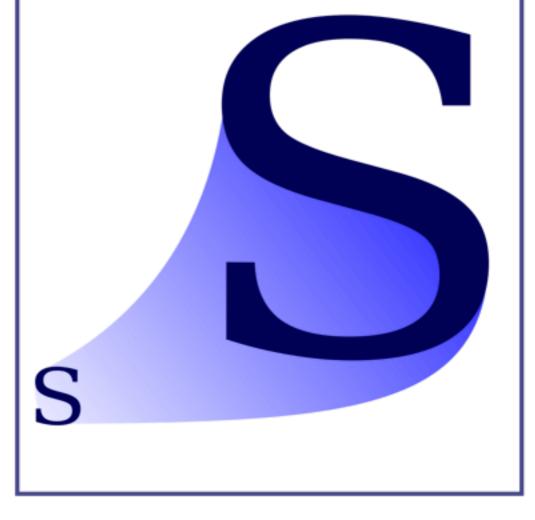
### First Steps











Raster .jpeg .gif .png



#### **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

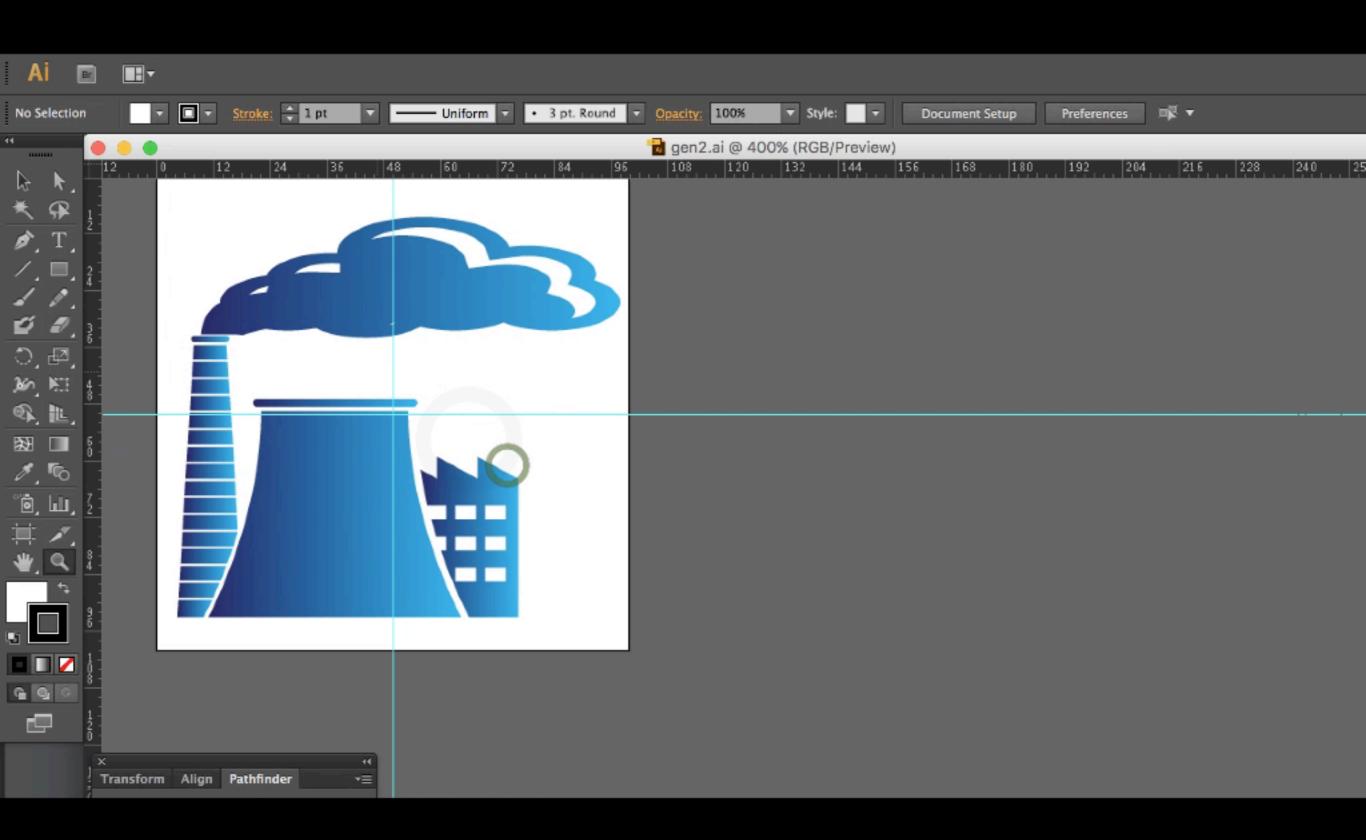
<path d = "M 0,300 A 200, 200 0 0, 1, 400, 300"/>

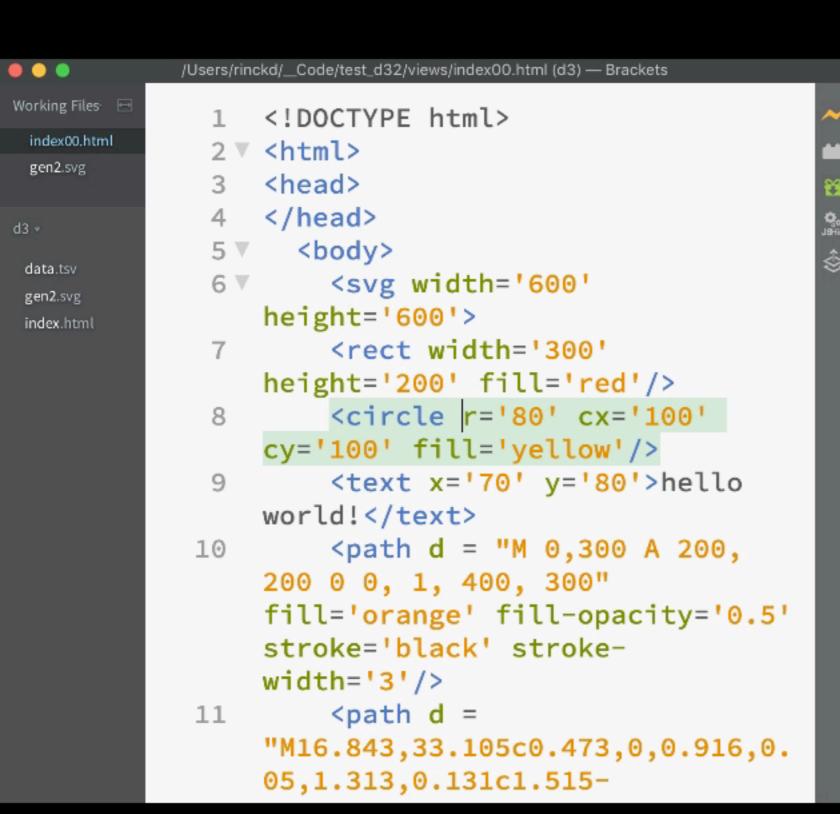
- M = move to
- L = line to
- H = horizontal line to
- V = vertical line to
- C = curve to
- S = smooth curvet
- Q = quadratic Bezier curve
- T = smooth quadratic Bezier curve to
- A = elliptical arc
- Z = close path

```
    /Users/rinckd/__Code/test_d32/views/index00.html (d3) — Brackets
```

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <head>
 4
    </head>
     <body>
        <svg width='600'</pre>
    height='600'>
           <rect width='300'
 8
    height='200' fill='red'/>
 9
           <circle r='80' cx='100'</pre>
    cy='100' fill='yellow'/>
           <text x='70' y='80'>hello
10
    world!</text>
11
           <path d = "M 0,300 A 200,
    200 0 0, 1, 400, 300"/>
12
        </svg>
13
14
      </body>
15
    </html>
16
```



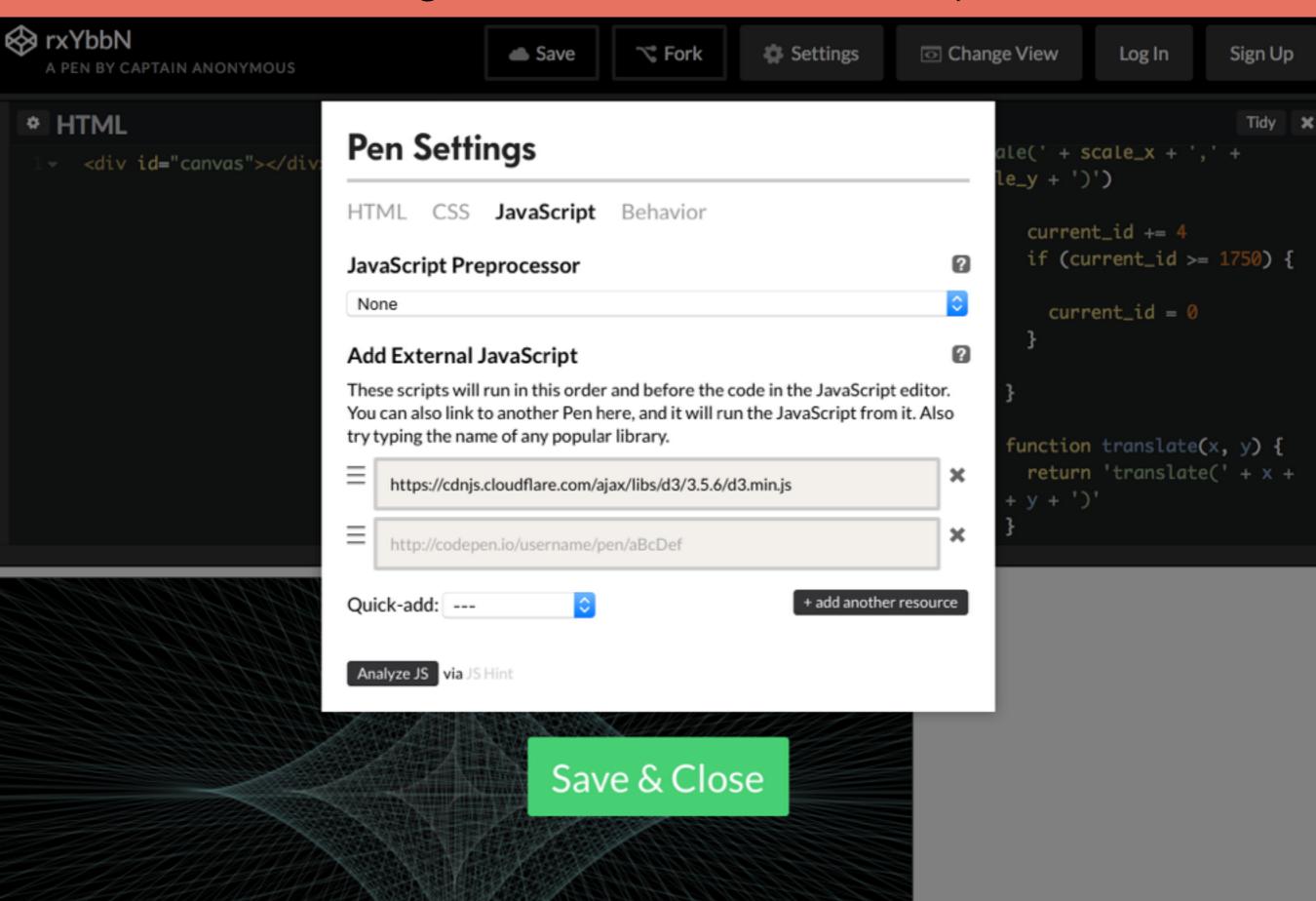






# Basic SVG Manipulation

#### Getting started with d3 — Codepen





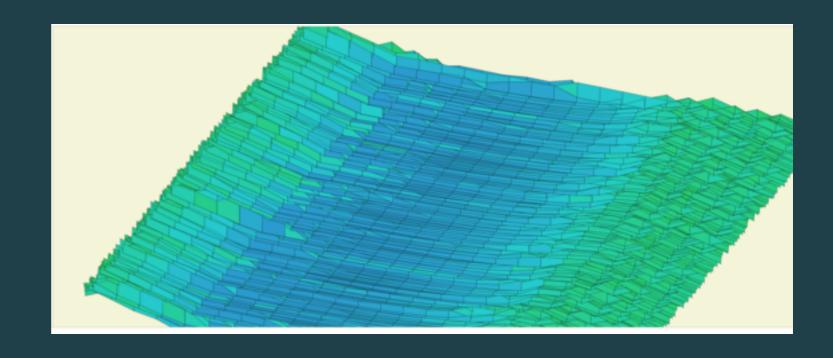
#### Gotchas



## 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



## Integration with Angular