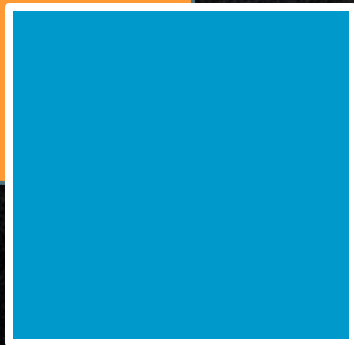


SVG
&
Raphaël . Js
[http://raphaeljs.com](http://dmitrybaranovskiy.github.io/raphael/)

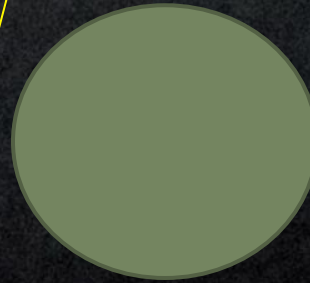
Scalable Vector Graphics

Canvas vs SVG



7 Elements

- ⦿ rect
- ⦿ circle
- ⦿ ellipse
- ⦿ line
- ⦿ polyline
- ⦿ polygon
- ⦿ path



Attributes

- ⦿ alignment-baseline
- ⦿ baseline-shift
- ⦿ clip
- ⦿ clip-path
- ⦿ clip-rule
- ⦿ color
- ⦿ color-interpolation
- ⦿ color-interpolation-filters
- ⦿ color-profile
- ⦿ color-rendering
- ⦿ cursor
- ⦿ direction
- ⦿ display
- ⦿ dominant-baseline
- ⦿ enable-background
- ⦿ fill
- ⦿ fill-opacity
- ⦿ fill-rule
- ⦿ filter

Format - DOM

```
<svg version="1.1" xmlns="http://www.w3.org/2000/svg">
```

```
  <rect x="0" y="0" width="320" height="200" fill="#ccc"/>
```

```
  <ellipse cx="160" cy="100" rx="50" ry="80" fill="#fc0"/>
```

```
  <circle cx="160" cy="100" r="50" fill="#000"/>
```

```
  <line x1="160" y1="100" x2="50" y2="80" stroke="#fff"/>
```

```
  <polyline points="10, 110, 10, 120, 20, 120, 20, 130, 30, 130,30, 140" stroke="#00f" fill="none" stroke-width="5"/>
```

```
  <path d="M10,10C50,10 20,40 100,50L120,60l0,30  
30,0-40,20L10,10z" fill="none" stroke="#f00" stroke-width="4"/>
```

```
</svg>
```


Path Syntax

M10,10C50,10 20,40
100,50L120,60L0,30
30,0-40,20z



Vector Icons from Paths

<http://raphaeljs.com/icons/>

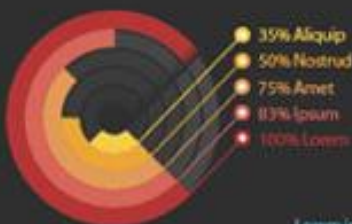
To

<http://www.freevectorsdaily.com/infographic-vector-kit-free-download/>

Locations



Pie Chart

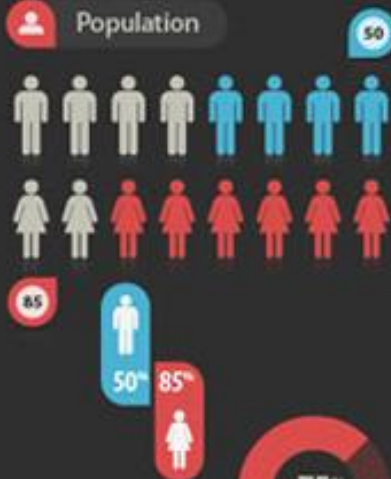


Lorem ipsum
dolor sit amet, con-
sectetur adipiscing elit, sed do
eummod tempor incididunt.

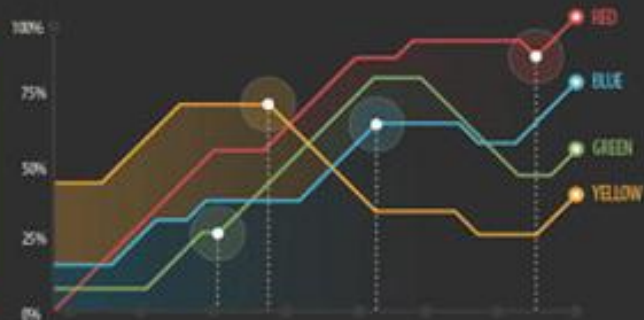
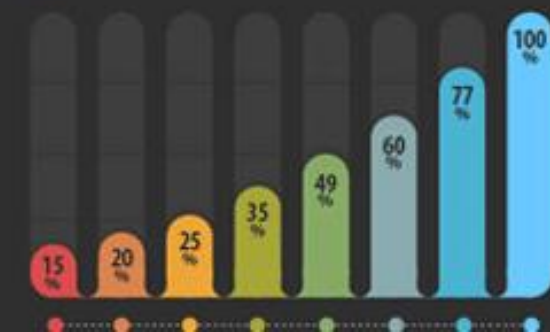
Ut enim ad minim
veniam, quis nostrud
exercitation ullamco
labore nisi ut aliquip ex.



Population

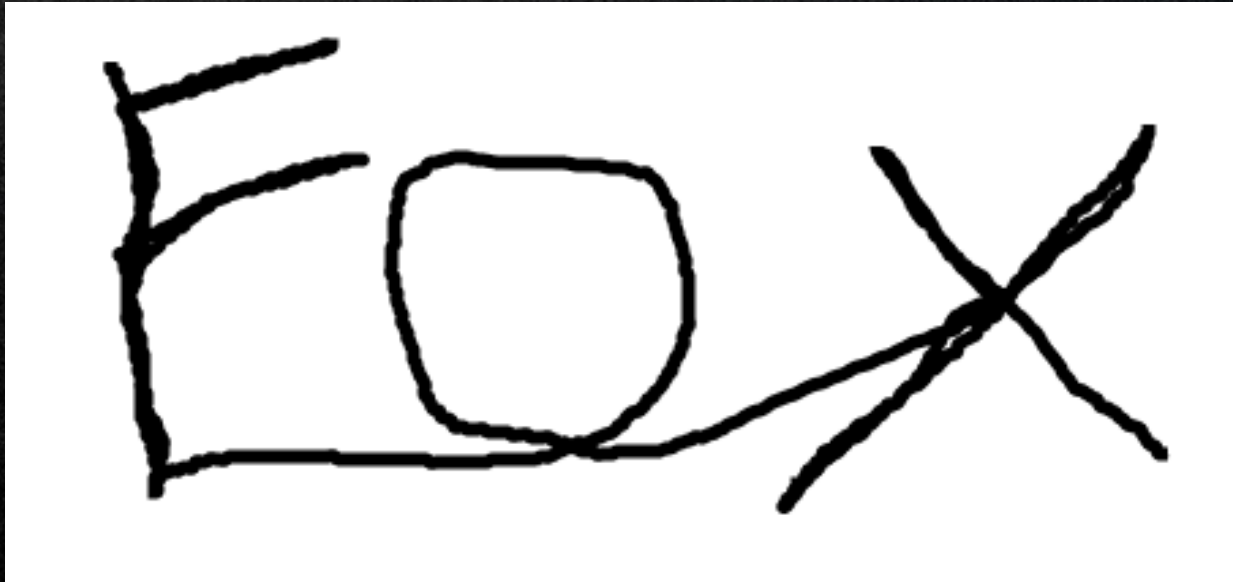


Bar Chart



[illegible]

Who wants to do that path manual?



Additional Support

- ⦿ CSS2/3 and beyond
- ⦿ Masking & Clipping
- ⦿ Filters

Filters for future research..

- feBlend
- feColorMatrix
- feComponentTransfer
- feComposite
- feConvolveMatrix
- feDiffuseLighting
- feDisplacementMap
- feFlood
- feGaussianBlur
- feImage
- feMerge
- feMergeNode
- feMorphology
- feOffset
- feSpecularLighting
- feTile
- feTurbulence
- feDistantLight
- fePointLight
- feSpotLight
- feFuncR
- feFuncG
- feFuncB
- feFuncA

What is Raphael?

Raphael is what
Jquery is for JavaScript.

The concept is very similar.
Robust coding, compatibility, and features.

Raphael SVG

Desktop Browser Support

- All except IE6
- IE7 and IE8 fallback is VML a bad version of SVG

Mobile SVG Support

Almost All Smart Phones, and Tablets,
With exception of Android 2.x Version, if
used with native browser.

Our hack week...
SVG: Attack

Thank you

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