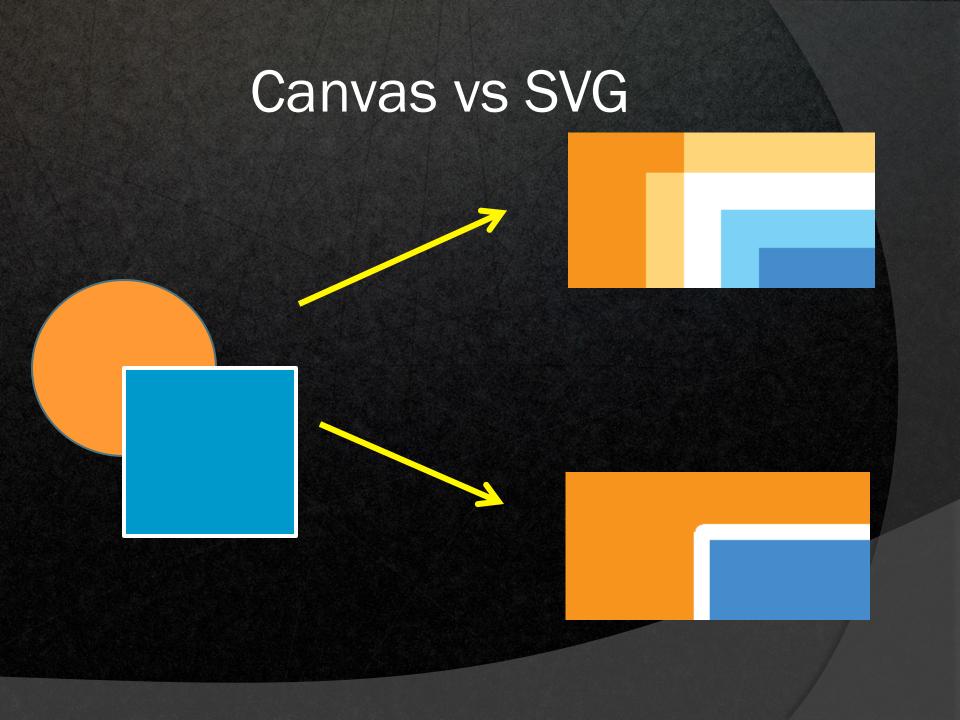


Scalable Vector Graphics



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">

<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/



Easy Path Plotting

m123.144c0.1 - 0.70711.2.29289.0.3c0.70711.0.70711.1.29289.0.29289.2.c0.70711.0.70711.1.29289.2.2c0.70711.0.70711.2.29289.0.3c0.70711.0.70711.2.29289.2.2c0.1.0.1.0.29289.2.2020.1.0.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.2020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.0020.1.0.002 $0.2\,0.3c0.1\,0.29289.1\,29291\,1.2c0.70711.0.70709\,0.2\,0.3c0.1\,0.2\,$ $0.70709 \cdot 2.4 \cdot 2.20.4 \cdot 0.29289 \cdot 1.2929 \cdot 1.2020 \cdot 1.2029 \cdot 1.2020 \cdot 1.2029 \cdot 1.2020 \cdot 1.2029 \cdot 1.2020 \cdot 1.2029 \cdot 1.2020 \cdot 1.$ $2.29289 \cdot 0.36 \cdot 0.70711 \cdot 0.70711 \cdot 1.29289 \cdot 0.29289 \cdot 2.16 \cdot 0.70711 \cdot 0.70711 \cdot 0.20289 \cdot 2.36 \cdot 0.0011 \cdot 0.70711 \cdot 0.70711 \cdot 0.20289 \cdot 1.29289 \cdot 1.29289 \cdot 0.300.70711 \cdot 0.70711 \cdot 0.70711 \cdot 1.1 \cdot 1.260 \cdot 1.0 \cdot 29289 \cdot 1.29289 \cdot 1.29289 \cdot 1.29289 \cdot 0.300.70711 \cdot 0.70711 \cdot 0.70711$ 100.70711.0.70711.2.0.3.0c1.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.70711.1.1.2.1c1.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.2.1c1.0.1.29289.0.29289.2.1c0.70711.0.1.2.1c1.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.2.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.0.29289.2.1c0.70711.0.1.29289.2.1c0.70711.0.1.29289.2.1c0.70711.0.1.29289.2.1c0.70711.0.1.29289.2.1c0.70711.0.1.29289.2.1c0.70710.70711.0.70711-1.07613.0.61731-2.10-1.30656.0.5412-2.1-3.10-1.0-1.1-2.10-1.0-2.10-3.00-1.0-1.1-2.10-1.0-2.29289-0.70711-3.00-0.70711.0.70711-1.1-2.10-1.0-1.29289.0.29289-2.10-0.70711.0.70711-2.0-3.00-1.0-2.0-3.00-1.0-2.0-3.00-1.0-2.0-3.00-1.0-2.0-3.00-1.0-2.0-3.00-1.0-2.0-3.00-10.29289 1.29289 -1.20-0.70711 0.70711 -2.0 -3.0c-1.0 -1.69344 0.4588 -3.1c-0.92387 0.38269 -2.29289 -0.70711 0.70711 -1.1 -2.1c-1.0 -2.29289 -0.70711 0.70711 -1.1 -2.1c-1.0 -2.29289 -0.70711 0.70711 -3.0c-0.70711 0.70711 -1.1 -2.2c-1.0 -2.29289 1,200,70711,0.70711,0.61731,1.07613,1.2c0,5412,1.30656,2.1,2.2c0,1,0.29289,11.29289 - 0.29289 2 - 1c0.70711 - 0.70711 1.29289 - 0.29289 2 - 1c0.70711 - 0.70711 1.29289 - 0.29289 2 - 1c0.70711 - 0.70711 0.69344 - 0.4588 3 - 1c0.92387 - 0.38269 1.69344 - 0.45887 - 0.28287 - 0.28287 - 0.28287 - 0.28287 - 0.28287 - 0.2200.70711 -0.70711 2.0 3.0c1.0 1.-1 2.-1c1.0 2.0 3.0c1.0 1.-1 2.-1c1.0 2.0 3.0c1.0 2.0 1.0c-1.0 -2.0 -3.0c-1.0 -2.0 -3.0c-1.0 -1.69344.0.4588 -3.1c-0.92387.0.38269 -2.0 -3.0c-1.0 -1.1 -2.1c-1.0 -2.0 2.9289, -0.70711 -3.1c-0.70711 -1.1 -2.1c-1.0 -1.69344.0.4588 -3.1c-0.92387.0.38269 -2.29289, -0.70711 -3.0c-0.70711.0.70711 -3.0c 0.92387.0.38269 - 1.1 - 2.1c - 1.0 - 1.0 - 1.0 - 2.1c - 1.01, 220, 70711, 0, 70709 - 0, 70711, 1, 292910, 2c0, 70711, 0, 707091, 1, 1, 2c0, 11, 1, 2c1, 0, 1, 29289, -0, 292912, -1c0, 70711, -0, 707092, 29289, 0, 70711, -0, 707093, 0c0, 70711, -0, 70701, 0c0, 70711, -0, $0.70709\ 2.0\ 3.0c1, 0.2\ 229289, 0.70709\ 3.0c0, 70711, -0.70709\ 1, -1\ 2, -1c1, 0.2\ 0.3\ 0.c1, 0.2\ 0.3\$ 10,92389,-0.38269,2.9291,0.70709,3.000,70709,-0.70709,1.29291,-0.29291,0.70709,1.29291,0.70709,1.29291,0.70709,1.29291,0.70709, 1.07611, -0.617312, -1c1.30655, -0.54122.29291, -0.292913, -1c0.70709, -0.707091.4588, -0.693452, -2c0.38269, -0.923891, -0.292912, -1c0.70709, -0.707091.29291, -1.292911, -1.292912, -2c0.70709, -0.707091.29291, -1.292912, -1.292 $0.23462 \cdot 2.15224 \cdot 1.40 \cdot 0.5412 \cdot 1.30656 \cdot 1.2 \cdot 1.30656 \cdot 1.2 \cdot 1.3065 \cdot 1.2 \cdot 1.2 \cdot 1.3065 \cdot 1.2 \cdot$ $10^{-3}.0^{-4}.1^{-6}.10^{-1}.0^{-1}.0^{-1}.0^{-1}.0^{-1}.0^{-2}.0^{-3}.0^{-2}.0^{-2}.0^{-3}.1^{-4}.10^{-1}.0^{-1}.0^{-1}.20^{28}.0^{-2}.0^{-6}.0^{-70711}.0^{-7071$ 0.29289, 1.29289 - 1.2c - 0.70711, 0.70711 - 0.29289, 1.29289 - 1.2c - 0.70711, 0.70711 - 0.29289, 1.29289 - 1.2c - 0.70711, 0.70711 - 0.2 0.3c, 1 - 0.29289, 1.29289 - 1.2c - 0.70711, 0.70711 - 0.2 0.3c, 1 - 0.100.70709 - 0.70709 1 - 12 - 101.02 - 13 - 101.01 - 12 - 101.02 - 13 - 101.01 - 12 - 101.01 - 101.02 - 13 - 101.01 - 102.02 - 13 - 101.01 - 102.02 - 102.0 $1.66251 \cdot 4.02676 \cdot 1.77023 \cdot 5.2c2 \cdot 17624 \cdot 0.51373 \cdot 3.69345 \cdot 2.4588 \cdot 5.3c1 \cdot 84775 \cdot 0.76538 \cdot 4.07611 \cdot 1.61731 \cdot 5.2c1 \cdot 3.0855 \cdot 0.5412 \cdot 3.186 \cdot 0.69254 \cdot 5.2c1 \cdot 1.4728 \cdot 0.8269 \cdot 2.-1 \cdot 4.762 \cdot 1.4728 \cdot 0.8269 \cdot 4.02676 \cdot 1.4728 \cdot 0.8269 \cdot 4.02676 \cdot 1.77023 \cdot 5.2c2 \cdot 17624 \cdot 0.51373 \cdot 3.82376 \cdot 2.48627 \cdot 6.3c1 \cdot 9.465 \cdot 0.4595 \cdot$ 200.52573.0.850651.69345.1.45883.200.92389.0.382691.69345.1.45883.200.92389.0.382691.69345.0.45883.100.92389.0.382691.69245.1.2.261.1.2.29871.0.051474.101.9021.1.175571.29291.2.292892.300.70709.0.707112.13.201.1.2.13.201.1.2.23.301.1.2.23.301.1.3.24.3200,70709, -0.70711, 0.29291, -1.292891, -20.70709, -0.70711, 0.29291, -1.292891, -20.70709, -0.70711, 0.29291, -1.292892, -1.00.70709, -0.70711, 0.29291, -1.292891, -1.00.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -1.292891, -1.20.70709, -0.70711, 0.29291, -0.70711, -0.70709, -0.70711, -0.70709, -0.70711, -0.70709, -0.70711, -0.70709, -0.70711, -0.70709, -0.70711, -0.70709, -0.70711, -0.70709, -0.70711, -0.70709, -0.7071 $4.40.8269.1.14726\,2.1731.1.85274\,3.3c1.30746\,1.814\,1.69254.3.186\,3.5c0.8269\,1.14726\,2.69254.3.186\,4.5c0.8269\,1.14726\,2.69254.3.186\,2.5069\,1.14726\,2.69254.3.186\,2.0069\,1.14726\,2.69254.3.186\,2.0069\,$ 3.200.70709.0.70709.1.29291.0.29291.2.1c0.70709.0.70709.0.29291.1.29

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
- felmage
- 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

Brought to you by:

Ariful and Andrey