

## SVG Cheat Sheet Cheat Sheet

by beccam via cheatography.com/33170/cs/10320/

| Basic Sha | pes   |  |  |
|-----------|---|--|--|
| line      | <pre><li><li><li>x1="start-x" y1="start-y" x2="end-x"</li></li></li></pre>  |  |  |
|           | y2="end-y"/>  |  |  |
| rectangle | <pre><rect <="" pre="" width="width" x="left-x" y="top-y"></rect></pre>   |  |  |
|           | height="height"/>   |  |  |
| circle    | <pre><circle <="" cx="center-x" cy="center-y" pre=""></circle></pre>  |  |  |
|           | r="radius"/>  |  |  |
| ellipse   | <pre><ellipse cx="center-x" cy="center-y" rx="x-&lt;/pre&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;radius" ry="y-radius"></ellipse></pre> |  |  |
| polygon   | <pre><polygon points="points-list"></polygon></pre>   |  |  |
| polyline  | <pre><polyline points="points-list"></polyline></pre>   |  |  |

| Grouping and Referencing Objects            |   |  |
|---|---|--|
| grouping                                    | <pre><g id="id" style="attributes"> </g></pre>  |  |
| use a group                                 | <pre><use x="x1" xlink:href="#id" y="y1"></use></pre>   |  |
| defining<br>groups<br>without<br>displaying | <defs> </defs>  |  |
| symbol                                      | <pre><symbol id="id" preserveaspectratio="attributes" style="attributes" viewbox="x1 y1 x2 y2"> </symbol></pre> |  |

| Transformations                            |   |
|--|---|
| translate(x, y)                            | moves $x$ horizontally, $y$ vertically                              |
| <pre>scale(xFactor, yFactor)</pre>         | multiplies by xFactor and yFactor                                   |
| scale(factor)                              | equivalent to scale (factor, factor)                                |
| <pre>rotate(angle, centerX, centerY)</pre> | rotates by angle degrees with center of rotation (centerX, centerY) |
| rotate(angle)                              | equivalent to rotate (angle, 0, 0)                                  |
| skewX(angle)                               | skews x-coordinates by angle degrees                                |
| skewY(angle)                               | skews y-coordinates by angle degrees                                |
| matrix(a b c d e                           | specifies a transformation matrix of six values                     |

| Clipping and masking   |   |
|--|---|
| clipping   |   |
| <clippath></clippath>  | id,clipPathUnits                              |
| <pre><use style="clip-&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;path: url(#pathid&lt;/td&gt;&lt;td&gt;);" xlink:href=";&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;#imageid"></use></pre> |   |
| masking  |   |
| <mask></mask>  | id, x, y, width, height                       |
| clipPathUnits  | objectBoundingBox,userSpaceOnUse              |
| maskUnits  |   |
| maskContentUnits   |   |
| style  | mask: url(#maskid)                            |
|  | fill-opacity: 0.0-1.0                         |
|  | fill: color; white specified for opacity only |

| 225° 315°<br>180° 0° | Angle Measurements    |
|----------------------|-----------------------|
| 135° 45°             | 180° 315°<br>180° 45° |

| Filters                           |                                  |
|-----------------------------------|----------------------------------|
| <filter></filter>                 | x, y, width, height              |
| filterUnits<br>primitiveUnits     | objectBoundingBox,userSpaceOnUse |
| <fegaussianblur></fegaussianblur> | can create a drop shadow         |
| in                                | SourceAlpha, SourceGraphic       |
| stdDeviation                      | blur or x-blur y-blur            |

Angle measurements increase clockwise, starting from the positivex-axis.



## By **beccam**

cheatography.com/beccam/

Not published yet. Last updated 9th January, 2017. Page 1 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com



## SVG Cheat Sheet Cheat Sheet by beccam via cheatography.com/33170/cs/10320/

| Gradients  |                       |
|--|-----------------------|
| attributes                                       |                       |
| spreadMethod                                     | pad                   |
|  | repeat                |
|  | reflect               |
| gradientTransform                                | skewX                 |
|  | skewY                 |
|  | rotate                |
| <pre><li><li><li>attributes</li></li></li></pre> |                       |
| x1 y1 x2 y2                                      | ="0-100%"             |
| <radialgradient> attributes</radialgradient>     |                       |
| cx cy r fx fy                                    | ="0-100%"             |
| elements   |                       |
| <stop></stop>                                    | offset="0-100%"       |
|  | stop-color:           |
|  | stop-opacity: 0.0-1.0 |

| Stroke Attributes       |  |
|-------------------------|--|
| style="attribute:value" | specify stroke attributes in style   |
| stroke                  | stroke color; default is none  |
| stroke-width            | width of stroke; default is one  |
| stroke-opacity          | a value between 0.0 (transparent) and 1.0 (opaque, the default)                  |
| stroke-dasharray        | a list of the lengths of dashes and gaps; default is none                        |
| stroke-linecap          | specifies shape of endpoints: butt (default), round, or square                   |
| stroke-linejoin         | specifies shape of corners: miter (pointed, the default), round, or bevel (flat) |
| stroke-miterlimit       | maximum ratio of length of the miter point to width of the lines; default is 4   |

| Fill Attributes         |  |
|-------------------------|--|
| style="attribute:value" | specify fill attributes in style   |
| fill                    | fill color; default is black   |
| fill-opacity            | a value between 0 . 0 (transparent) and 1 . 0 (opaque, the default)        |
| fill-rule               | determines whether a point is inside a shape; nonzero (default) or evenodd |
|                         |  |

| Paths  |                |   |
|--|----------------|---|
| <pre><path d="command arguments"></path></pre> |                |   |
| uppercase of                                   | commands: abs  | olute coordinates   |
| lowercase c                                    | ommands: relat | ive coordinates   |
| Command  | Arguments      | Effect  |
| M m  | x y            | move to $(x, y)$  |
| L 1  | x y            | line to $(x, y)$  |
| Z  |                | close path  |
| H h  | X              | horizontal line to $x$  |
| V v  | У              | vertical line to y  |
| A a  | rx ry x-       | elliptical arc to $(x, y)$ ; points lie on ellipse with           |
|  | axis-          | x-radius $rx$ , $y$ -radius $ry$ , rotated $x$ - $axis$ -         |
|  | rotation       | rotation degrees; if arc < 180°, large-                           |
|  | large-arc      | arc is 0; if arc direction is positive, sweep                     |
|  | sweep x y      | is 1  |
| Δď   | x1 y1 x y      | quadratic Bézier curve to $(x, y)$ using control point $(x1, y1)$ |



By **beccam** cheatography.com/beccam/

Not published yet. Last updated 9th January, 2017. Page 2 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com



## SVG Cheat Sheet Cheat Sheet

by beccam via cheatography.com/33170/cs/10320/

| Paths (cont) |                       |   |  |
|--------------|-----------------------|---|--|
| T<br>t       | x y                   | quadratic Bézier curve to ( $x$ , $y$ ) using reflection of previous $\varrho$ 's control pt                                |  |
| C            | x1 y1<br>x2 y2 x<br>y | cubic Bézier curve to ( $x$ , $y$ ) using control pt 1 ( $x$ 1, $y$ 1) and control pt 2 ( $x$ 2, $y$ 2)                     |  |
| S<br>s       | x2 y2 x<br>y          | cubic Bézier curve to $(x, y)$ using reflection of previous C's control pt for control pt 1 and $(x2, y2)$ for control pt 2 |  |

| Text                           |                                  |
|--------------------------------|----------------------------------|
| <text x="x" y="y"></text>      | "d" baseline (x, y)              |
| displayed                      |                                  |
| font-family                    | serif, sans-serif, monospace,    |
|                                | fantasy, cursive                 |
| font-size                      | pt, em, ex, %                    |
| font-weight                    | bold, normal                     |
| font-style                     | italic, normal                   |
| text-decoration                | none, underline, overline, line- |
|                                | through                          |
| word-spacing                   | +length, normal, -length         |
| letter-spacing                 | +length, normal, -length         |
| text-anchor                    | start, middle, end               |
| textLength                     | value                            |
| lengthAdjust                   | spacing (def), spacingAndGlyphs  |
| writing-mode                   | tb                               |
| glyph-orientation-<br>vertical | 0 (letter-spacing:-#),90 (def)   |
| direction                      | rtl,ltr                          |

| Text (cont)   |                        |
|---|------------------------|
| unicode-bidi  | bidi-override          |
| <text> <textpath xlink:href="#path-id">text</textpath></text> |                        |
|   |                        |
| startOffset=""  | val, val%              |
| <pre><tspan style="attributes">spanned text</tspan></pre>     |                        |
| dx="x" or dy="y"  | offset chars by x or y |
| x="x" or y="y"  | place chars at x or y  |
| rotate="angle"  | rotate chars by angle  |
| baseline-shift  | super, sub, em, %      |
| xml:space=""  | default, preserve      |



By **beccam** 

cheatography.com/beccam/

Not published yet. Last updated 9th January, 2017. Page 3 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com