

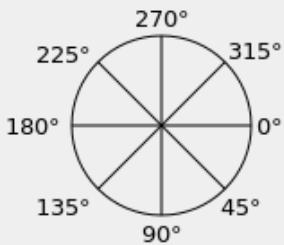
Basic Shapes

line	<code><line x1="start-x" y1="start-y" x2="end-x" y2="end-y"/></code>
rectangle	<code><rect x="left-x" y="top-y" width="width" height="height"/></code>
circle	<code><circle cx="center-x" cy="center-y" r="radius"/></code>
ellipse	<code><ellipse cx="center-x" cy="center-y" rx="x-radius" ry="y-radius"/></code>
polygon	<code><polygon points="points-list"/></code>
polyline	<code><polyline points="points-list"/></code>

Transformations

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

Angle Measurements



Angle measurements increase clockwise, starting from the positive x-axis.

Grouping and Referencing Objects

grouping	<code><g id="id" style="attributes"> </g></code>
use a group	<code><use xlink:href="#id" x="x1" y="y1"/></code>
defining	<code><defs></code>
groups without displaying	<code></defs></code>
symbol	<code><symbol id="id" style="attributes" preserveAspectRatio="attributes" viewBox="x1 y1 x2 y2"> </symbol></code>

Clipping and masking

clipping	
<clipPath>	<code>id, clipPathUnits</code>
<use xlink:href="#imageid" style="clip-path: url(#pathid);"/>	
masking	
<mask>	<code>id, x, y, width, height</code>
clipPathUnits	<code>objectBoundingBox, userSpaceOnUse</code>
maskUnits	
maskContentUnits	
style	<code>mask: url(#maskid)</code>
	<code>fill-opacity: 0.0-1.0</code>
	<code>fill: color; white specified for opacity only</code>

Filters

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



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Gradients

attributes

spreadMethod pad

repeat

reflect

gradientTransform skewX

skewY

rotate

<linearGradient> attributes

x1 y1 x2 y2 = "0 -100%"

<radialGradient> attributes

cx cy r fx fy = "0 -100%"

elements

<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

<path d="command arguments"/>

uppercase commands: absolute coordinates

lowercase commands: relative coordinates

Command	Arguments	Effect
M m	x y	move to (x, y)
L l	x y	line to (x, y)
Z		close path
H h	x	horizontal line to x
V v	y	vertical line to y
A a	rx ry x-axis-rotation large-arc sweep x y	elliptical arc to (x, y); points lie on ellipse with x-radius rx, y-radius ry, rotated x-axis-rotation degrees; if arc < 180°, large-arc is 0; if arc direction is positive, sweep is 1
Q q	x1 y1 x y	quadratic Bézier curve to (x, y) using control point (x1, y1)



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Paths (cont)

T x y	quadratic Bézier curve to (x, y) using reflection of previous Q's control pt
t	
C x1 y1	cubic Bézier curve to (x, y) using control pt 1 (x1, y1)
c x2 y2 x	and control pt 2 (x2, y2)
y	
S x2 y2 x	cubic Bézier curve to (x, y) using reflection of previous S's control pt for control pt 1 and (x2, y2) for control pt 2
s y	

Text

<text x="x" y="y">	"d" baseline (x, y) displayed</text>
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-	0 (letter-spacing:-#), 90 (def)
vertical	
direction	rtl, ltr

Text (cont)

unicode-bidi	bidi-override
<text>	
<textPath xlink:href="#path-id">text</textPath>	
</text>	
startOffset=""	val, val%
<tspan style="attributes">spanned text</tspan>	
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



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