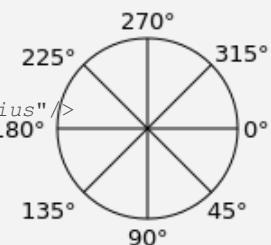


Basic Shapes

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

Angle Measurements



Transformations

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

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

Grouping and Referencing Objects

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

Gradients

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



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Clipping and masking

clipping

<clipPath> id, clipPathUnits

<use xlink:href="#imageid" style="clip-path: url(#pathid); stroke-linejoin: miter; stroke-linecap: round; stroke-miterlimit: 4; mask: url(#maskid); fill: white; fill-opacity: 0.0-1.0; filter: blur(1px); transform: rotate(-15deg);"/>

masking

<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

Filters

<filter> x, y, width, height

filterUnits objectBoundingBox, userSpaceOnUse

primitiveUnits

<feGaussianBlur> can create a drop shadow

in SourceAlpha, SourceGraphic

stdDeviation blur or x-blur y-blur

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 Attributes (cont)

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



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Paths (cont)

A a rx ry x-axis-rotation large-arc sweep x y

elliptical arc
text x="x" y="y">
to (x, y); points lie

"d" baseline (x, y)

on ellipse with x

font-family serif, sans-serif, monos;

radius rx, y-radius

pt, em, ex, %

ry, rotated x-axis

bold, normal

-rotation font-weight

italic, normal

degrees; font-style

none, underline, overline

arc < 180° large-

+length, normal, -length

arc is 0; if arc

+length, normal, -length

word-spacing direction is positive,

letter-spacing

sweep is 1

+length, normal, -length

text-anchor start, middle, end

Q q x1 y1 x y

quadratic Bézier

value

curve to (x, y) using

control point (x1, y1)

spacing (def), spacingAndGl

lengthAdjust 1)

tb

writing-mode

T t x y

quadratic Bézier

0 (letter-spacing:-#), 90 (c

glyph-orientation-vertical

rtl, ltr

curve to (x, y) using

direction

reflection of

bidi-override

previous Q's

unicode-bidi

control pt text>

C c x1 y1 x2 y2 x y

cubic Bézier curve

xlink:href="#path-id">text</textPath>

to (x, y) using

x or y

control pt 1 (x1, y1)

val, val%

and control

<tspan style="attributes">spanned text</tspan>

pt 2 (x2, y2)

offset chars by x or y

cubic Bézier curve

place chars at x or y

to (x, y) using

y or x

reflection of rotate="angle"

rotate chars by angle

previous C's control

super, sub, em, %

baseline-shift pt for control pt 1

default, preserve

xml:space="" and (x2, y2) for

control pt 2

S s x2 y2 x y

for



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