SVG



Positioning	; :	svg	g	rect	text	line	path	polygon	polyline	circle	ellipse	style	attr
transform	"translate(x,y)"		•	•	•	•	•	٠	•	٠	•		•
х,у	number			•	•								•
x1,x2,y1,y2	number					•							•
d	(special)						•						•
points	"x,y x,y x,y"							•	•				•
cx,cy	number									•	•		•

Sizing:		svg	g	rect	text	line	path	polygon	polyline	circle	ellipse	style	attr
transform	"scale(k)"		•	•	•	•	•	•	•	•	•		•
width, height	number	•		•									•
r	number									•			•
rx,ry	number										•		•

Colors:

0010101		svg	g	rect	text	line	path	polygon	polyline	circle	empse	style	attr
fill	<pre>name,#RRGGBB, rgb(R,G,B); url(#title)</pre>			•	•		•	•		٠	•	•	
stroke	<pre>name,#RRGGBB, rgb(R,G,B)</pre>			•	•	•	•	•	•	•	•	•	
opacity	number 0-1			•	•	•	•	•	•	•	•	•	
fill-opacity	number 0-1			•	•		•	•		•	•	•	
stroke-opacity	number 0-1			•	•	•	•	•	•	•	•	•	

For text, fill refers to the color of the letters, stroke to that of the outline of the letters. If a pattern or a gradient is defined, it can be used with fill with its id.

Lines :		svg	g	rect	text	line	path	polygon	polyline	circle	ellipse	style	attr
stroke-width	number			•	•	•	•	•	•	•	•	•	
stroke- dasharray	<pre>numbers (separated by commas, blanks)*</pre>			•	•	•	•	•	•	•	•	•	
stroke-linecap	butt round square					•	•	•	•			•	
stroke-linejoin	miter round bevel						•	•				•	
stroke-miterlimit	number					•	•	•	•			•	

the numbers represent dash lengths and gaps.

Text:

l ext :			style	attr
text-anchor	start middle end	Determine if the text is aligned to the left, centered or aligned to the right.		•
writing-mode	tb	If specified, text is written vertically	•	
glyph- orientation- vertical	0 1	If 0, and writing-mode is set to tb, letters are horizontal (stacked), else if set to 1 when text mode is set to tb, the text will be rotated (written from top to bottom).	•	
textLength	Number	If specified, the text will be adjusted to fit the specified length.		•
lengthAdjust	spacing spacingAndGlyphs	Which strategy is used to adjust the length?		•
textPath	<pre>xlink:href(#id)</pre>	Writes the text along a path (which should be in the defs and given an id attribute)		

Special :		svg	g	rect	text	line	path	polygon	polyline	circle	ellipse	style	attr
transform	"rotate(a)"		•	•	•	•	•	•	•	•	•		•
clip-path	url(#title)		•	•	•	•	•	•	•	•	•	•	
mask	url(#title)		•	•	•	•	•	•	•	•	•	•	

Extrait de

http://www.jeromecukier.net/wp-content/uploads/2012/10/d3-cheat-sheet.pdf

d3 cheat sheet

Select > data > enter > append :

select	CSS selector (string)	Selects the <i>first</i> element	that matches the selector.				
selectAll	CSS selector (string)	Selects all the elements t	hat match the selector.				
	•	Selections can be chained	1 : each new statement will look <i>inside</i> the current selection.				
data	array of items	Provides the data that wi	ll be matched against the selection				
enter	nothing - ()	Selects elements to be ad	lded: the items in the data which are not yet matched by elements.				
exit	Nothing - ()	Selects elements to be re	moved: the elements which are no longer matched by items in the data				
append	name of element	creates specified element inside the selection, either once (if data/enter is not used) or as					
		times as there are elemen	nts in enter().				
remove	Nothing - ()	removes selected elements.					
The following	ng constructs are valid.						
d3.select(")	<pre>body").append("svg");</pre>		Creates an svg element in the HTML document (assuming there is a body element)				
var myRects	=d3.select("body").select("sv	g").selectAll("rect");	Looks for all rect elements within the first svg element found within the body element.				
myRects=myR	<pre>ects.data([1,2,3]).enter();</pre>		If there are fewer than 3 rect elements in myRects, this prepares the missing elements to be added.				
myRects.app	end("rect");		Create these missing elements. Extra methods can be added to initiate them (attr, style) will only apply to the elements just created				
d3.selectAl	l("rect");		This selects all rect elements. Methods added there will apply to all of the rect elements, not only to those just created.				
d3.selectAl	l("rect").data([4,5]).exit().	remove();	This passes new data to the rect elements. Then, if there are more than 2 of them, the rest – exit() – are deleted – remove().				
d3.selectAl	l("rect").remove();		This deletes all rect elements.				
The following	ng are not:						
d3.append("	svg");		All elements must be added within a container element. <i>First</i> select, <i>then</i> append.				
d3.selectAl	l("rect").enter().append("rec	t");	enter() requires <i>first</i> a selection. <i>then</i> data.				
d3.select("	rect").data([1,2,3]).enter().	append("rect");	To use data and enter, you need to use select All first (also elements are				
			created, but not where vou'd expect.)				

Path – what goes in the d attribute:

М	х,у	Begins the string. M moves the cursor to the designated position to draw a shape. If more than one
		pair of coordinates are provided, it's as if the other pairs are preceded by an L.
m	х,у	Same as above, the only difference is that if more than one pair of coordinates are provided, extra
		pairs are processed as if preceded by an l.
L	х,у	Draws a line from the last position to the specified position.
1	х,у	Draws a line from the last position to a relative position: x pixels to the right and y to the bottom.
Н	х	Draws a horizontal line to the specified, absolute x position (y stays the same)
h	х	Draws a horizontal line x pixels to the right (if x is negative, the line is drawn to the left).
V	Y	Draws a vertical line to the specified, absolute y position (x stays the same)
v	У	Draws a vertical line x pixels to the bottom (if y is negative, the line is drawn to the top).
A	<pre>rx,ry,alpha,large,sweep,x,y</pre>	Draws an elliptical arc: rx and ry are the radius of the ellipse; alpha is the x-axis rotation of the
		ellipse; large is 0 if the arc should be the shorter arc (less than 180°), 1 if it should be the longer
		arc; sweep is 0 is the arc is to be drawn clockwise, 1 if counter-clockwise; x,y are the coordinate of
		the end point of the arc.
Q	CX CY EX EY	Draws a Bézier quadratic curve. cX,cY are the coordinates of the control point, eX,eY that of the
		endpoint. More pairs can be provided (extra control points and endpoints).
đ	CX CY EX EY	Draws a Bézier quadratic curve, with the coordinates of the points relative to the current point.
Т	eX eY	Draws a Bézier quadratic curve, using the last provided control point (or failing that the current
		point).
t	eX eY	Same as above, with the coordinates of the end point relative to the current point.
С	CX1 CY1 CX2 CY2 EX EY	Draws a Bézier cubic curve, with cX1,cY1, cX2, cY2 being the coordinates of the control points.
С	CX1 CY1 CX2 CY2 eX eY	Same as above, with the coordinates of the points relative to the current point.
S	CX2 CY2 eX eY	Draws a Bézier cubic curve, using the previously provided control point (cX1,xY1) or failing that
		the current point, cX2,cY2 as the next control point, and eX, eY as the end point
s	CX2 CY2 EX EY	Same as above, with the coordinates of the points relative to the current point.
Ζ		Optional at the end the string for a closed shape (ie line to the first point)