Cheatography

SVG Filters Cheat Sheet

by beccam via cheatography.com/33170/cs/11085/

The <filter> element attributes id = "name" filterUnits = "userSpaceOnUse" "objectBoundingBox" primitiveUnits "userSpaceOnUse" "objectBoundingBox" x = |y| ="coordinate|-10%" width = | "length | 120%" height = "iri" inherit any attributes xlink:href = <filter> element iri that are not defined in this element color-interpolation-filters =

Common filter primitive attributes			
result	"filter-primitive-		
=	reference"		
in =	"SourceGraphic"		
	default for first filter primitive		
	"SourceAlpha"		
	"BackgroundImage		
	BackgroundAlpha"		
	filtered object must be within		
	a container element specifying		
	enable-background="new"		

Common filter primitive attributes (cont)				
"FillPaint St	rokePa	int"		
"filter-primitive-reference"				
specfied by a previous result				
default input for non-first filter primitives is the output from the previous filter primitive				
Simpler filter prin	nitives			
<fegaussianblu< td=""><td></td><td>_</td></fegaussianblu<>		_		
stdDeviation =		"blur spread		
		0 "		
		larger is blurrier		
<feimage></feimage>				
<pre>xlink:href =</pre>		"image		
		source"		
preserveAspect	tRatio	"align [meet		
=		slice]		
		none xMidYMid		
		meet"		
<femorphology< td=""><td>></td><td></td></femorphology<>	>			
operator =		"erode		
		dilate"		
radius =		"x-radius y-		
		radius"		
		"radius 0"		
Utility filters				
<fetile></fetile>	tiles the	in layer		
<feoffset></feoffset>				
dx = dy =	"x off	set" "y		
	offset	" "0"		
<feflood></feflood>				
flood-color	"color	specification"		
flood-	"value	0 - 1		
opacity =				

Lighting effects				
containers for light source elements				
lighting-color =	"color			
	specification"			
surfaceScale =	"height 1"			
<fediffuselighting></fediffuselighting>	·			
diffuseConstant =	"factor 1"			
	must be nonnegative			
<fespecularlighting< td=""><td>1></td></fespecularlighting<>	1>			
specularConstant	"factor 1"			
=	must be nonnegative			
specularExponent	"exponent 1" (1 -			
=	128)			
light source elements				
<fedistantlight></fedistantlight>				
azimuth =	"degrees 0"			
elevation =				
<fepointlight></fepointlight>				
x = y = z =	"coordinate 0"			
<fespotlight></fespotlight>				
x = y = z =	"coordinate 0"			
pointsAtX =	"coordinate 0"			
pointsAtY =				
pointsAtZ =				
specularExponent	"focus control			
=	1"			
limitingConolnglo	"degrees"			
<pre>limitingConeAngle =</pre>				



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Combining filter primi	itives		
<femerge></femerge>	container for stacking <femergenode> elements</femergenode>		
<femergenode></femergenode>			
in =	"intermediate result"		
<feblend></feblend>			
in2 =	"second input"		
mode =	"normal multiply screen darken lighten"		
<fecomposite></fecomposite>			
in2 =	"second input"		
operator =	<pre>"over in out atop xor arithmetic"</pre>		
attributes used with "arithmetic"			
k1 =	"factor for in1 × in2 0"		
k2 =	"factor for in1		
k3 =	"factor for in2		
k4 =	"additive offset 0"		
<fedisplacementmap></fedisplacementmap>			
scale =	"displacement factor 0"		
xChannelSelector =	"R G B A "		
yChannelSelector =	"R G B A "		

More filter primitiv	/es
<fecolormatrix< th=""><th>></th></fecolormatrix<>	>
type =	"matrix saturate hueRotate luminanceToAlpha"
values =	"matrix values" "saturation value" 0 - 1 "rotate degrees"
<fecomponenttr< td=""><td>ansfer></td></fecomponenttr<>	ansfer>
	uncR>, <fefuncg>, feFuncA> elements.</fefuncg>
<fefuncx></fefuncx>	
type =	"identity table discrete linear gamma"
tableValues =	"intervals for table; steps for discrete"
slope =	"linear slope"
intercept =	"linear intercept"
amplitude =	"gamma amplitude"
exponent =	"gamma exponent"
offset =	"gamma offset"
<feconvolvemat< td=""><td>rix></td></feconvolvemat<>	rix>
order =	"columns rows" "3 by 3"
kernel =	"values"
bias =	"offset value"
<feturbulence></feturbulence>	
type =	"turbulence" "fractalNoise"
<pre>baseFrequency =</pre>	"x-frequency y- frequency"

More filter primitives (cont)				
baseFrequency =	"frequency"			
numOctaves =	"integer"			
seed =	"number"			



in2 =

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"second input"

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