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 = | height =	"*length* | **120%**"
xlink:href =	"*iri*" inherit any attributes of <filter> element *iri* that are not defined in this element
color-interpolation-filters = "sRGB"	

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"
	"FillPaint | StrokePaint"
	"***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 primitives

Utility filters

<feTile>	tiles the in layer
<feOffset>	
dx = | dy =	"*x offset*" | "*y offset*" | "**0**"
<feFlood>	
flood-color =	"*color specification*"
flood-opacity =	"*value*" 0 - 1

Lighting effects

containers for light source elements

lighting-color =	"*color specification*"
surfaceScale =	"*height* | **1**"
<feDiffuseLighting>	
diffuseConstant =	"*factor* | **1**" must be nonnegative
<feSpecularLighting>	
specularConstant =	"*factor* | **1**" must be nonnegative
specularExponent =	"*exponent* | **1**" (1 - 128)

light source elements

<feDistantLight>	
azimuth = | elevation =	"*degrees* | **0**"
<fePointLight>	
x = | y = | z =	"*coordinate* | **0**"
<feSpotLight>	
x = | y = | z =	"*coordinate* | **0**"
pointsAtX = pointsAtY = pointsAtZ =	"*coordinate* | **0**"
specularExponent =	"*focus control* | **1**"
limitingConeAngle =	"*degrees*"

Combining filter primitives

Combining filter primitives (cont)

scale =	"*displacement* | **0**"
xChannelSelector =	"R | G | B | **A**"
yChannelSelector =	"R | G | B | **A**"
in2 =	"*second input*"

More filter primitives

<feColorMatrix>	
type =	"matrix | saturate | hueRota | luminanceToAlpha
values =	"*matrix values*" "*saturation value* "*rotate degrees*"
<feComponentTransfer>	

container for <feFuncR>, <feFuncG>, <feFuncB>, and <feFuncA> elements.

<feFuncX>	
type =	"identity | table | discrete | linear
tableValues =	"*intervals for ta* *steps for discret*
slope =	"*linear slope*"
intercept =	"*linear intercept*
amplitude =	"*gamma amplitude*"
exponent =	"*gamma exponent*"
offset =	"*gamma offset*"
<feConvolveMatrix>	
order =	"*columns rows*" ***"3 by 3"***
kernel =	"*values*"
bias =	"*offset value*"
<feTurbulence>	
type =	"turbulence" | "f
baseFrequency =	"*x-frequency y-fr*
baseFrequency =	"*frequency*"
numOctaves =	"*integer*"
seed =	"*number*"

`<feGaussianBlur>`	
`stdDeviation =`	"*blur spread* | **0**" larger is blurrier
`<feImage>`	
`xlink:href =`	"*image source*"
`preserveAspectRatio =`	"*align* [`meet` | `slice`] | `none` | **`xMidYMid meet`** "
`<feMorphology>`	
`operator =`	"`erode` | `dilate`"
`radius =`	"`x-radius y-radius`" | "`radius` | **0**"

`<feMerge>`	container for stacking `<feMergeNode>` elements
`<feMergeNode>`	
`in =`	"*intermediate result*"
`<feBlend>`	
`in2 =`	"*second input*"
`mode =`	"`normal` | `multiply` `screen` | `darken` | `lighten`"
`<feComposite>`	
`in2 =`	"*second input*"
`operator =`	"`over` | `in` | `out` | `atop` `xor` | `arithmetic`"

attributes used with `" ari thm eti c"`

`k1 =`	"*factor for in1 × in2* | **0**"
`k2 =`	"*factor for in1* | **0**"
`k3 =`	"*factor for in2* | **0**"
`k4 =`	"*additive offset* | **0**"
`<feDisplacementMap>`	

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