## SVG Filters Cheat Sheet

| The <filter> element attributes |  |
| :---: | :---: |
| id = | "name" |
| filterUnits $=$ | "userSpaceOnUse" <br> "objectBoundingBox" |
| primitiveUnits = | "userSpaceOnUse" <br> "objectBoundingBox" |
| $x=\mid y=$ | "coordinate\|-10\%" |
| $\begin{aligned} & \text { width = } \\ & \text { height = } \end{aligned}$ | "length\|120\%" |
| xlink:href = | "iri" inherit any attributes of <filter> element iri that are not defined in this element |
| $\begin{aligned} & \text { color-interpolation-filters = } \\ & \text { "sRGB" } \end{aligned}$ |  |

\(\left.\begin{array}{|ll|}\hline Common filter primitive attributes <br>
result \& "filter-primitive- <br>

= \& reference"\end{array}\right\}\)| in $=$ | "SourceGraphic" |
| :--- | :--- |
| default for first filter primitive |  |

"BackgroundImage |
BackgroundAlpha"
filtered object must be within a container element specifying enable-background="new"

## By beccam

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| Common filter primitive attributes (cont) |
| :--- |
| "FillPaint \| StrokePaint" |
| "filter-primitive-reference" |
| specfied by a previousresult |
| default input for non-first filter <br> primitives is the output from <br> the previous filter primitive |


| Simpler filter primitives |  |
| :--- | :--- |
| <feGaussianBlur> | "blur spread \| |
| stdDeviation = | larger is blurrier |
| <feImage> | "image <br> source" |
| xlink:href = | "align [meet \| <br> slice] <br> none\|xMidyMid <br> meet" |
| $=$ |  |

<feMorphology>

| operator $=$ | "erode $\mid$ |
| :--- | :--- |
| dilate" |  |
| radius $=$ | "x-radius $y^{-}$ <br> radius" <br>  |


| Utility filters |  |
| :--- | :--- |
| <ferile> | tiles the in layer |
| <feoffset> |  |
| $\mathrm{dx}=\mid \mathrm{dy}=$ | "x offset" $\mid " Y$ <br> offset" $\mid " 0 "$ |

<feflood>
flood-color "color specification"
$=$
flood- "value" 0-1
opacity =

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Page 1 of 2.

| Lighting effects |  |
| :---: | :---: |
| containers for light source elements |  |
| lighting-color $=$ | "color <br> specification" |
| surfaceScale $=$ | "height\|1" |
| <feDiffuseLighting> |  |
| diffuseConstant = | "factor 1 " must be nonnegative |
| <feSpecularLighting> |  |
| specularConstant $=$ | "factor 1 " <br> must be nonnegative |
| specularExponent $=$ | $\begin{aligned} & \text { "exponent\|1"(1- } \\ & 128) \end{aligned}$ |
| light source elements |  |
| <feDistantLight> |  |
| $\begin{aligned} & \text { azimuth =\| } \\ & \text { elevation = } \end{aligned}$ | $\text { "degrees \| } 0 \text { " }$ |
| <fePointLight> |  |
| $x=\|y=\| z=$ | "coordinate\|0" |
| <feSpotLight> |  |
| $x=\|y=\| z=$ | "coordinate\|0" |
| $\begin{aligned} & \text { pointsAtX }= \\ & \text { pointsAtY }= \\ & \text { pointsAtZ }= \end{aligned}$ | "coordinate\|0" |
| specularExponent $=$ | ```"focus control\| 1"``` |
| limitingConeAngle $=$ | "degrees" |

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Page 2 of 2.

## More filter primitives (cont)

baseFrequency $=$ "frequency"
numOctaves $=$
"integer"
seed =
"number"

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