Cheatography

Elm 1.1.0 Graphics Cheat Sheet

by Ryan Johnson (CITguy) via cheatography.com/138/cs/3192/

Unstructured Graphics

collage : *Int -> Int -> List Form -> Element*

(v1.1.0) Graphics.Collage



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Creating Forms

filled : *Color -> Shape -> Form*

Creating Forms (cont)

gradient : *Gradient -> Shape -> Form*



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Creating Forms (cont)

outlined : *LineStyle -> Shape -> Form*

Creating Forms (cont)

textured : *String -> Shape -> Form*



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Creating Forms (cont)

toForm : *Element -> Form*

Creating Forms (cont)

traced : *LineStyle -> Path -> Form*

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Grouping Forms

group : *List Form -> Form*

Grouping Forms (cont)

groupTransform : *Transform2D -> List Form -> Form*

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Shapes

circle : *Float -> Shape*

```
circle(radius)
```

Shapes (cont)

ngon : *Int -> Float -> Shape*

```
ngon(sides, radius)
```



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Shapes (cont)

oval : *Float -> Float -> Shape*

oval(width, height)

Shapes (cont)

polygon : *List* (*Float*, *Float*) *-> Shape*

Specify a list of points of the polygon. Shape will automatically close.



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Shapes (cont)

rect : *Float -> Float -> Shape*

```
rect(width, height)
```

Shapes (cont)

square : *Float -> Shape*

```
square(edge_length)
```

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Images

image : *Int -> Int -> String -> Element*

```
image(width, height, src)
```

Images (cont)

fittedImage : *Int -> Int -> String -> Element*

```
fittedImage(width, height, src)
```



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Images (cont)

croppedImage : (*Int*, *Int*) -> *Int* -> *Int* -> *String* -> *Element*

```
croppedImage(origin, width, height, src)
```

Images (cont)

tiledImage : *Int* -> *Int* -> *String* -> *Element*

```
tiledImage(width, height, src)
```

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Element Inspection

widthOf : *Element -> Int*

Element Inspection (cont)

heightOf : *Element -> Int*



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Element Inspection (cont)

sizeOf : *Element -> (Int, Int)*

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Layout Aliases

layers : *List ELement -> Element*

```
layers == flow outward
```



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Layout Aliases (cont)

above : *Element -> Element -> Element*

a above b

Layout Aliases (cont)

below : *Element -> Element -> Element*

a below b



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Layout Aliases (cont)

beside : *Element -> Element -> Element*

a beside b

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Layout

flow : *Direction -> List Element -> Element*



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Layout (cont)

right : *Direction*	+X

Layout (cont)

up : *Direction*	+Y



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Layout (cont)

outward : *Direction*	+Z

Layout (cont)

left : *Direction*	-X



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Layout (cont)

down : *Direction* -Y

Layout (cont)

inward : *Direction* -Z

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Transforming Forms

alpha : *Float -> Form -> Form*

Transforming Forms (cont)

move : (*Float*, *Float*) -> *Form* -> *Form*



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Transforming Forms (cont)

moveX : *Float -> Form -> Form*

Transforming Forms (cont)

moveY : *Float -> Form -> Form*



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Transforming Forms (cont)

rotate : *Float -> Form -> Form*

Transforming Forms (cont)

scale : *Float -> Form -> Form*

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Paths

segment : (*Float*, *Float*) -> (*Float*, *Float*) -> *Path*

Paths (cont)

path : *List* (*Float*, *Float*) -> *Path*

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Line Style Types

```
type alias LineStyle = {
```

Line Style Types (cont)

```
> color:Color,
```



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Line Style Types (cont)

> *width*:Float,

Line Style Types (cont)

> *cap*:LineCap,



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Line Style Types (cont)

> *join*:LineJoin,

Line Style Types (cont)

> *dashing*:List Int,



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Line Style Types (cont)

> *dashOffset*:Int

Line Style Types (cont)

> }



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Line Style Types (cont)

> type **LineCap**

Line Style Types (cont)

> = *Flat*



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Line Style Types (cont)

> | *Round*

Line Style Types (cont)

> | *Padded*



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Line Style Types (cont)

> type **LineJoin**

Line Style Types (cont)

> = *Smooth*



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Line Style Types (cont)

> | *Sharp Float*

Line Style Types (cont)

> | *Clipped*

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Line Styles

dashed : *Color -> LineStyle*

Line Styles (cont)

defaultLine : *LineStyle*



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Line Styles (cont)

dotted : *Color -> LineStyle*

Line Styles (cont)

solid : *Color -> LineStyle*

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Element Styling

width : *Int -> Element -> Element*

Element Styling (cont)

height : *Int -> Element -> Element*



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Element Styling (cont)

size : *Int -> Int -> Element -> Element*

Element Styling (cont)

color : *Color -> Element -> Element*



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Element Styling (cont)

opacity : *Float -> Element -> Element*

opacity (0.0:transparent - 1.0:opaque)

Element Styling (cont)

link : *String -> Element -> Element*

create Element that is a hyper-link



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Element Styling (cont)

tag : *String -> Element -> Element*

> similar to <a> with ID

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Positioning Elements

empty : *Element*

```
flow down [ img1, if showMore then img2 else empty
```



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Positioning Elements (cont)

spacer : *Int -> Int -> Element*

Empty Box

Positioning Elements (cont)

container : *Int -> Int -> Position -> Element -> Element*

Put an element in a container. By setting the color of the container, you can create borders.

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Named Positions

topLeft : *Position*

Named Positions (cont)

> **midTop** : *Position*



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Named Positions (cont)

> **topRight** : *Position*

Named Positions (cont)

> ----------



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Named Positions (cont)

> **midLeft** : *Position*

Named Positions (cont)

> **middle** : *Position*



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Named Positions (cont)

> **midRight** : *Position*

Named Positions (cont)

> ----------



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Named Positions (cont)

> **bottomLeft** : *Position*

Named Positions (cont)

> **midBottom** : *Position*



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Named Positions (cont)

> **bottomRight** : *Position*

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