# The HTML5 Canvas

## **Canvas styles**

fillColor and strokeColor

## **Using the Canvas**

```
var canvas = document.getElementById('the-canvas');
var canvasCtx = canvas.getContext('2d');
canvasCtx.fillRect(10, 10, 30, 30);
```

## **Drawing Rects**

```
context.fillRect (x, y, width, height)
context.strokeRect (x, y, width, height)
```

#### **Canvas Paths**

```
1=> beginPath()
2=> moveTo(x, y)
```

# Changes the position of the path marker

lineTo(x, y)

# Draws a straight line from the position of the path marker to position (x, y)

fill() / stroke()

# **Drawing Ellipses**

```
arc(x, y, radius, from, to, counterclockwise)
```

The degrees to radians formula is: radians = degrees \* PI/180

# **Drawing Cureves**

```
context.quadraticCurveTo(cx, cy, ex, ey)
```

# **Drawing Text**

```
context.fillText (text, x, y) – fills the given text context.strokeText (text, x, y) context.font – sets the font size and font family of the text context.fillStyle – the fill color of the text context.strokeStyle
```

#### **Transformations**

 $context.scale(dx,\,dy)-all\;coordinates\;and\;points\;are\;scaled\\$   $fillRect(X,\,X,\,W,\,H)\;will\;draw\;a\;rectangle$ 

At position (dx \* X, dy \* Y)

With width (dx\* W) and height (dy\* H)

 $context.rotate(D)-all\ drawing\ is\ rotated\ with\ angle\ D\ degrees\\ context.getImageData(x,\,y,\,w,\,h)$