

Canvas cheatsheet

Getting the context

```
var canvas = document.getElementById('c')  
var c = canvas.getContext('2d')
```

Saving and restoring

```
c.save()
```

```
c.restore()
```

Saves: strokeStyle fillStyle globalAlpha lineWidth lineCap
lineJoin miterLimit shadowOffsetX shadowOffsetY shadowBlur
shadowColor globalCompositeOperation, Transformations (translate
rotate scale transform setTransform), Clipping path

Basic drawing

```
// x = 10, y = 20, width = 200, height = 100  
c.fillStyle = '#ff0000'  
c.strokeStyle = '#ff00ff'
```

```
c.lineWidth = 5  
c.lineCap = 'round'
```

```
c.fillRect(10, 20, 200, 100)
```

```
c.stroke()  
c.fill()
```

Animation

Transformations

```
c.translate(0, 0)
c.rotate(Math.PI*2/5)
c.scale(1.0, 1.0)
```

To rotate along origin:

```
c.translate(ox, oy)
c.rotate(theta)
c.translate(-ox, -oy)
```

To scale along origin:

```
c.translate(-ox*x, -oy*y)
c.scale(x, y)
c.translate(ox/x, oy/y)
```

See [MDN: Transformations](#).

Gradients

```
gr = c.createLinearGradient(x0,y0,x1,y1)
gr = c.createRadialGradient(x0,y0,r0,x1,y1,r1)
pat = c.createPattern(image, 'repeat-x')
```

```
c.fillStyle = gr
```

```
onframe: function() {
  c.clearRect(0, 0, w, h)
}
```

Image drawing

```
c.drawImage(image, dx, dy, [dw, dh]);
/* `image` can be HTML Image/Canvas/Video */
```

See [MDN: Images](#).

Colors, styles shadows

```
c.strokeStyle = '#ff00ff';
c.fillStyle = '#ff00ff';
```

```
c.shadowOffsetX = 0;
c.shadowOffsetY = 0;
c.shadowOffsetBlur = 3.0;
c.shadowColor = 'rgba(0,0,0,0.2)';
```

See [MDN: Styles](#)

Drawing

```
c.beginPath()
c.moveTo(x, y)
```

More resources

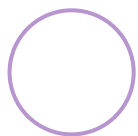
[Canvas Cheatsheet PDF](#)

```
c.lineTo(x, y)
c.quadraticCurveTo(cpx, cpy, x, y)
c.bezierCurveTo(cp1x, cp1y, cp2x, cp2y)
c.arcTo(...)
c.arc(...)
c.closePath()
```



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