

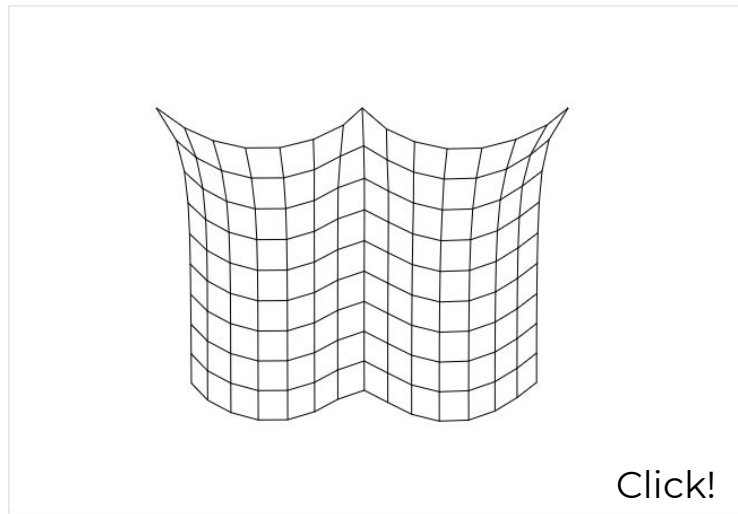
Canvas



HTML Canvas

To draw graphics, on the fly, with JavaScript

- No more flash
- Just HTML and JavaScript
- Utilities:
 - Browser games
 - To display 2D and 3D models
 - Simulations /Interactive animations



HTML Canvas

First we need a canvas tag and its attributes (width and height)

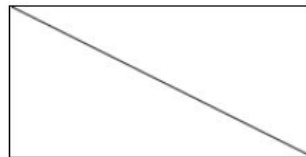
```
<canvas id="myCanvas" width="200" height="100" style="border:1px solid #000000;">
```

Your browser does not support the HTML5 canvas tag.

```
</canvas>
```

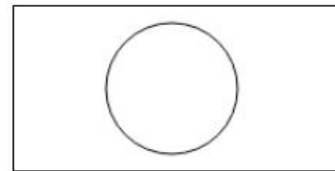
With some JavaScript, we can display different images

```
var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
// Be careful! (0,0) is top left  
ctx.moveTo(0,0);  
ctx.lineTo(200,100);  
ctx.stroke();
```



HTML Canvas

```
var c = document.getElementById("myCanvas");  
var ctx = c.getContext("2d");  
ctx.beginPath();  
ctx.arc(95,50,40,0,2*Math.PI);  
ctx.stroke();
```



```
var c=document.getElementById("myCanvas");  
var ctx=c.getContext("2d");  
  
// Create gradient  
var grd=ctx.createLinearGradient(0,0,200,0);  
grd.addColorStop(0,"red");  
grd.addColorStop(1,"white");  
  
// Fill with gradient  
ctx.fillStyle=grd;  
ctx.fillRect(10,10,150,80);
```

