# Tutorial D3.js



04 - SVG(I)



### SVG (I)

Especificación SVG <a href="http://www.w3.org/TR/SVG">http://www.w3.org/TR/SVG</a>

<svg> width height </svg>

line: x1 y1 x2 y2 stroke

rect: x y width height

circle: cx cy r

#### **Transiciones**

Método	Descripción
selection.transition()	this schedules a transition for the selected elements
transition.duration()	duration specifies the animation duration in milliseconds for each element
transition.ease()	ease specifies the easing function, example: linear, elastic, bounce
transition.delay()	delay specifies the delay in animation in milliseconds for each element

#### SVG (I)



```
<!DOCTYPE html>
<html lang="es">
            </head>
               var width = 500;
               var height = 500;
               16
               // Crear linea dentro del SVG
svg.append("line")
                   /g.append("Line")
    attr("x1", 100)
    attr("y1", 50)
    attr("x2", 500)
    attr("y2", 100)
    attr("stroke", "red");
               rectangulo dentro
svg.append("rect")
.attr("x", 100)
.attr("y", 150)
.attr("width", 200)
.attr("height", 100)
.attr("fill", "green")
                    .on("mouseover", function(){
    d3.select(this)
                             .transition()
                              .duration(2000)
                              .attr("height", 200);
                    .on("mouseout", function(){
    d3.select(this)
                              .transition()
                              .duration(500)
.attr("height", 100);
```

## SVG (II)



Elipse

ellipse: cx cy rx ry

Grupo

g:

Translación: transform translate(x,y)

#### SVG (II)



```
<!DOCTYPE html>
<html lang="es">
<head>
     <meta charset="UTF-8">
     <title>SVG 02</title>
     <script type="text/javascript" src="http://d3js.org/d3.v4.min.js"></script>
</head>
       var width = 500;
       var height = 500;
       var svg = d3.select("body")
                     .append("svg")
.attr("width", width)
.attr("height", height);
       // Crear elemento grupo dentro del contenedor
var g = svg.append("g")
                     .attr("transform", "translate(250,50)");
       var solitario = svg.append("text")
                              .attr("x", 0)
.attr("y", 20)
.attr("stroke", "blue")
                              .text("Este es un texto solitario");
       //Crear un texto añadiendole al grupo
g.append("text")
.attr("x", 0)
.attr("y", 0)
.attr("stroke", "white")
        .text("Esto es una elipse");
</body>
```

