

# Tutorial D3.js



Data-Driven Documents

## 03 – Funciones y Eventos



## Funciones (I)

```
function(parámetros entrada) {  
    .....  
    return parámetro salida;  
}
```

Parámetros:

d	dato
i	índice
this	objeto seleccionado



## Funciones (II)

```
1 <!DOCTYPE html>
2 <html lang="es">
3 <head>
4   <meta charset="UTF-8">
5   <title>Selección 02</title>
6   <script type="text/javascript" src="http://d3js.org/d3.v4.min.js"></script>
7 </head>
8 <body>
9   <p>Error: Mensaje de error.</p>
10  <p>Aviso: Mensaje de aviso.</p>
11  <script>
12    d3.selectAll("p").style("color", function(d, i) {
13      var text = this.innerText;
14
15      if (text.indexOf("Error") >= 0) {
16        return "red";
17      } else if (text.indexOf("Aviso") >= 0) {
18        return "blue";
19      }
20    });
21  </script>
22 </body>
23 </html>
```

← → ↻ ⓘ localhost:3000/03Funcion01.html

Error: Mensaje de error.

Aviso: Mensaje de aviso.



## Eventos (I)

`d3.selection.on(type[, listener[, capture]]);`

Método	Descripción
<code>selection.on()</code>	Add or remove event listeners to capture event types like click, mouseover, mouseout etc.
<code>selection.dispatch()</code>	Captures event types like click, mouseover, mouseout. Typenames is the eventname, listener is the event listener
<code>d3.event</code>	Event object to access standard event fields such as timestamp or methods like <code>preventDefault</code>
<code>d3.mouse(contenedor)</code>	Gets the x and y coordinates of the current mouse position in the specified DOM element.
<code>d3.touch()</code>	Gets the touch coordinates to a container

<https://github.com/d3/d3-selection/blob/master/README.md#handling-events>



## Eventos (II)

```
1 <!DOCTYPE html>
2 <html lang="es">
3 <head>
4   <meta charset="UTF-8">
5   <title>Selección 02</title>
6   <script type="text/javascript" src="http://d3js.org/d3.v4.min.js"></script>
7   <style>
8     div {
9       height: 100px;
10      width: 100px;
11      background-color: steelblue;
12      margin: 5px;
13    }
14  </style>
15 </head>
16 <body>
17   <div> </div>
18   <div> </div>
19   <script>
20     d3.selectAll("div")
21       .on("mouseover", function(){
22         d3.select(this)
23           .style("background-color", "orange");
24         // Obtener información del evento
25         console.log(d3.event);
26         // Obtener coordenadas x e y
27         console.log(d3.mouse(this));
28       })
29       .on("mouseout", function(){
30         d3.select(this)
31           .style("background-color", "steelblue")
32       });
33   </script>
34 </body>
35 </html>
```

