Selecciones y *join* de datos en D3.js

IIC2026

Join de datos en D3.js I

Selecciones y join de datos en D3.js

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Vincular datos con elementos Podemos generar un vínculo de marcas y canales con datos mediante código.

```
<svg>
    <rect></rect>
      <circle></circle>
      <path></path>
</svg>
```

```
<svg>
    <rect></rect>
      <circle></circle>
      <path></path>
</svg>
```

```
const datos = [23, 45, 120, 64];
```

```
<svg>
    <rect></rect>
      <circle></circle>
      <path></path>
</svg>
```

```
const datos = [
    {nombre: "Ana", edad: 23},
    {nombre: "Bea", edad: 44},
    ...
];
```

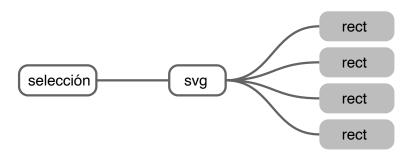
```
<svg id="svg" width="400" height="250">
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
</rect></rect></rect></rect></rect>
```

```
<svg id="svg" width="400" height="250">
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
</svg>
```

```
d3.select("#svg")
.selectAll("rect");
```

```
<svg id="svg" width="400" height="250">
    <rect></rect>
    <rect></rect>
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    <rect></rect>
    <rect></rect>
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</rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></re>
```

```
d3.select("#svg")
.selectAll("rect");
```



```
1 const datos = [23, 45, 120, 64];
2
3 d3.select("#svg")
4    .selectAll("rect")
5    .data(datos);
```

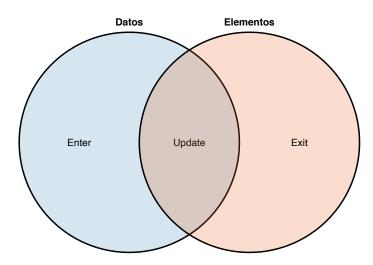
```
1 const datos = [23, 45, 120, 64];
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```

- Hay datos que no se le asocian elementos
- Hay elementos y datos que se asocian entre ellos
- Hay elementos que no se le asocian datos

```
1 const datos = [23, 45, 120, 64];
2
3 d3.select("#svg")
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5    .data(datos);
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- Hay datos que no se le asocian elementos Denter
- Hay elementos y datos que se asocian entre ellos **update**
- Hay elementos que no se le asocian datos Dexit

- Hay datos que no se le asocian elementos Denter
- Hay elementos y datos que se asocian entre ellos **update**
- Hay elementos que no se le asocian datos Dexit



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1 const datos = [23, 45, 120, 64];
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3 d3.select("#svg")
4    .selectAll("rect")
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    <rect></rect> <!-- 45 -->
    <rect></rect> <!-- 120 -->
    <rect></rect> <!-- 64 -->
</svg>
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    <rect></rect> <!-- 23 -->
    <rect></rect> <!-- 45 -->
    <rect></rect> <!-- 120 -->
    <rect></rect> <!-- 64 -->
</svg>
```

```
1 const datos = [23, 45, 120, 64];
2
3 const update = d3.select("#svg")
4    .selectAll("rect")
5    .data(datos);
6
7 update.attr("width", 50)
8    .attr("y", 0)
9    .attr("x", (d, i, all) => i * 100);
```

```
<svg id="svg" width="400" height="250">
    <rect></rect> <!-- 23 -->
    <rect></rect> <!-- 45 -->
    <rect></rect> <!-- 120 -->
    <rect></rect> <!-- 64 -->
</svg>
```

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5    .data(datos);
6
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8    .attr("y", 0)
9    .attr("x", (d, i, all) => i * 100)
10    .attr("height", (d, i, all) => 2 * d);
```

```
<svg id="svg" width="400" height="250">
    <rect width="50" y="0" x="0"></rect> <!-- 23 -->
    <rect width="50" y="0" x="100"></rect> <!-- 45 -->
    <rect width="50" y="0" x="200"></rect> <!-- 120 -->
    <rect width="50" y="0" x="300"></rect> <!-- 64 -->
</svg>
```

```
1 const datos = [23, 45, 120, 64];
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3 const update = d3.select("#svg")
4    .selectAll("rect")
5    .data(datos);
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8    .attr("y", 0)
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10    .attr("height", (d, i, all) => 2 * d);
```

```
<svg id="svg" width="400" height="250">
    <rect width="50" y="0" x="0" height="46"></rect> <!-- 23 -->
    <rect width="50" y="0" x="100" height="90"></rect> <!-- 45 -->
    <rect width="50" y="0" x="200" height="240"></rect> <!-- 120 -->
    <rect width="50" y="0" x="300" height="128"></rect> <!-- 64 -->
</svg>
```

```
1 const datos = [23, 45, 120, 64];
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3 const update = d3.select("#svg")
4    .selectAll("rect")
5    .data(datos);
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7 update.attr("width", 50)
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10    .attr("height", (d, i, all) => 2 * d);
```

Exit

```
<svg id="svg" width="400" height="250">
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></re>
```

```
1 const datos = [23, 45];
2
3 d3.select("#svg")
4    .selectAll("rect")
5    .data(datos);
```

```
<svg id="svg" width="400" height="250">
    <rect></rect> <!-- 23 -->
    <rect></rect> <!-- 45 -->
    <rect></rect> <!-- ? -->
    <rect></rect> <!-- ? -->
    <rect></rect> <!-- ? -->
</svg>
```

Exit

```
<svg id="svg" width="400" height="250">
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect>
    <rect></rect></rect></rect></rect></rect></rect></rect></rect>
```

```
const datos = [23, 45];

const update = d3.select("#svg")
    .selectAll("rect")
    .data(datos);

update.exit().remove();
```

```
<svg id="svg" width="400" height="250">
    <rect></rect> <!-- 23 -->
    <rect></rect> <!-- 45 -->
    <rect></rect> <!-- ? -->
    <rect></rect> <!-- ? -->
    <rect></rect> <!-- ? -->
</svg>
```

Exit

```
<svg id="svg" width="400" height="250">
    <rect></rect>
    <rect></rect>
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    <rect></rect>
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    <rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></rect></re>
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const datos = [23, 45];

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</svg>
```

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```
1 const datos = [23, 45, 120, 64];
2
3 d3.select("#svg")
4    .selectAll("rect")
5    .data(datos)
6    .enter()
7    .append("rect");
```

```
<svg id="svg" width="400" height="250">
  <!-- ? -->
</svg>
```

```
<svg id="svg" width="400" height="250">
</svg>
```

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```

```
1 const svg = d3.select("body").append("svg");
 2
   const datos = [150, 256, 130, 0, 23, 422, 235];
 4
   svg.attr("width", 50 + datos.length * 100).attr("height", 500);
 6
   svq
     .selectAll("rect")
 8
     .data(datos)
 9
10
     .enter()
11
     .append("rect")
     .attr("width", 50)
12
     .attr("fill", "magenta")
13
14
     .attr("height", (d) \Rightarrow d)
     .attr("x", ( , i) => 50 + i * 100);
15
```

```
1 const svg = d3.select("body").append("svg");
  const datos = [150, 256, 130, 0, 23, 422, 235];
  svg.attr("width", 50 + datos.length * 100).attr("height", 500);
7 svg
    .selectAll("rect")
    .data(datos)
    .append("rect")
    .attr("fill", "magenta")
    .attr("height", (d) \Rightarrow d)
```

```
const svg = d3.select("body").append("svg");
  const datos = [150, 256, 130, 0, 23, 422, 235];
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7 svg
    .selectAll("rect")
    .data(datos)
    .append("rect")
    .attr("fill", "magenta")
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```

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    .selectAll("rect")
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     .attr("x", (\_, i) => 50 + i * 100);
```

Join de datos en D3.js I

Selecciones y *join* de datos en D3.js

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¡Deja tus preguntas en los comentarios!