

# Visualisation de données

## 06 - Interaction et animation (partie 1)

9 avril 2025

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# Semaine passée

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Echelles `.scaleLinear().domain().range()`

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**Echelles** `.scaleLinear().domain().range()`

**Axes** `.axisBottom(), .axisTop(), .axisLeft(), .axisRight()`

# d3-transition

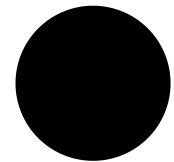
## Installation

```
npm install d3-transition
```

# Transitions

Etat 1

Etat 2



Etat 1:  $r = 10$ , Etat 2:  $r = 50$

Etat 1: width = 0, Etat 2: width = 200

# Transitions

```
monSvg.append('element')  
  .attr('attribute', Etat_1)  
  .transition()  
  .attr('attribute', Etat_2)
```



JS index.js

```
const monSvg = select('#monSvg')  
  .append('svg')  
  .attr('width', width + margin.left + margin.right)  
  .attr('height', height + margin.top + margin.bottom)  
  .append('g')  
  .attr('transform', 'translate(0 , ' + margin.top + ')');  
  
let radius = 10;  
const circle = svg3  
  .append('circle')  
  .attr('r', 10)  
  .attr('cx', 400)  
  .attr('cy', 100)  
  .on('click', function () {  
    radius = radius + 20;  
    circle.transition().duration(2000).attr('r', radius);  
  });
```



# Méthodes

**transition().duration(dureeTransition)**

↳ d3 | Transition timing

**transition().ease(fonctionEasing)**

↳ d3 | Easing animations

**transition().delay((d,i) => i\*tempsMillisecondes)**

↳ d3 | Transition timing

# Exemple

↳ Observable | d3-transition