```
tt()
```

SCAL

ING

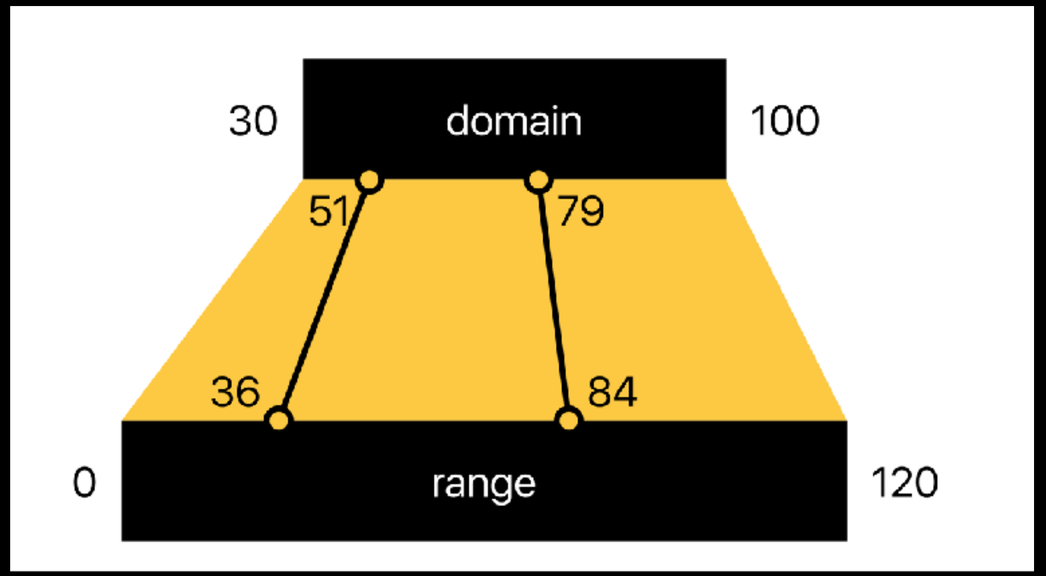
D3

Schedule

1. Scales in D3

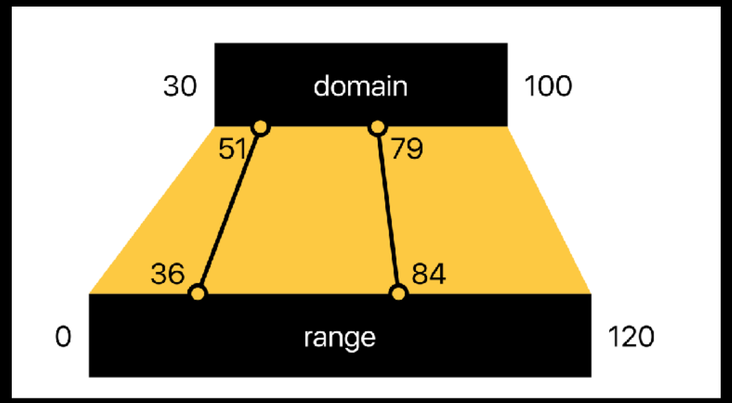
Scales

Scales help you calculate how big elements of your graph are going to be and where they should be positioned

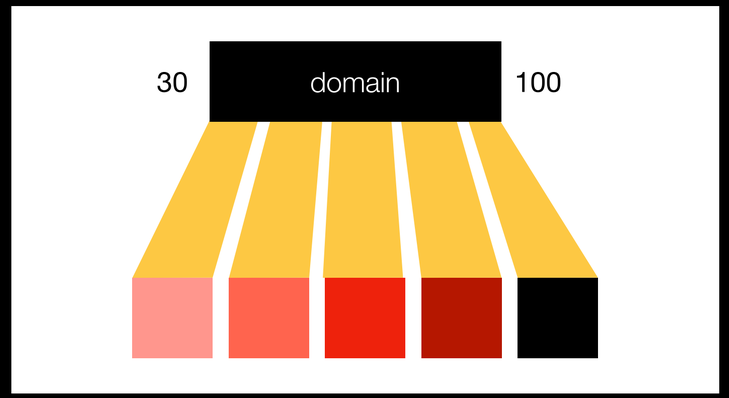


Three types of scales

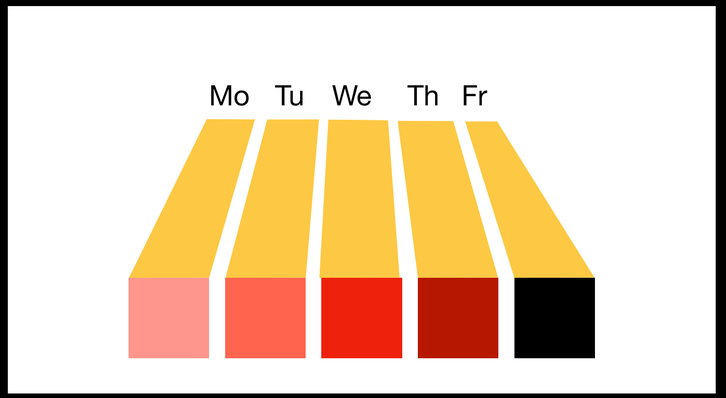
Scales help you calculate how big elements of your graph are going to be and where they should be positioned



Continuous -> Continuous



Continuous -> Discrete



Discrete -> Discrete

Scale examples

color scale

```
var color = d3.scaleLinear()
  .domain([10, 100]) //data
  .range(['brown', 'steelblue']) //colorrange

color(20) // '#9a3439'
color(50) // '#7b5167'
```

Scale examples

clamping scales

```
var scale = d3.scaleLinear()
  .domain([10, 130])
  .range([0, 960]) //pixel range

scale(-10) // -160, outside range

scale.clamp(true)
scale(-10) // 0, clamped to range
```

Scale examples

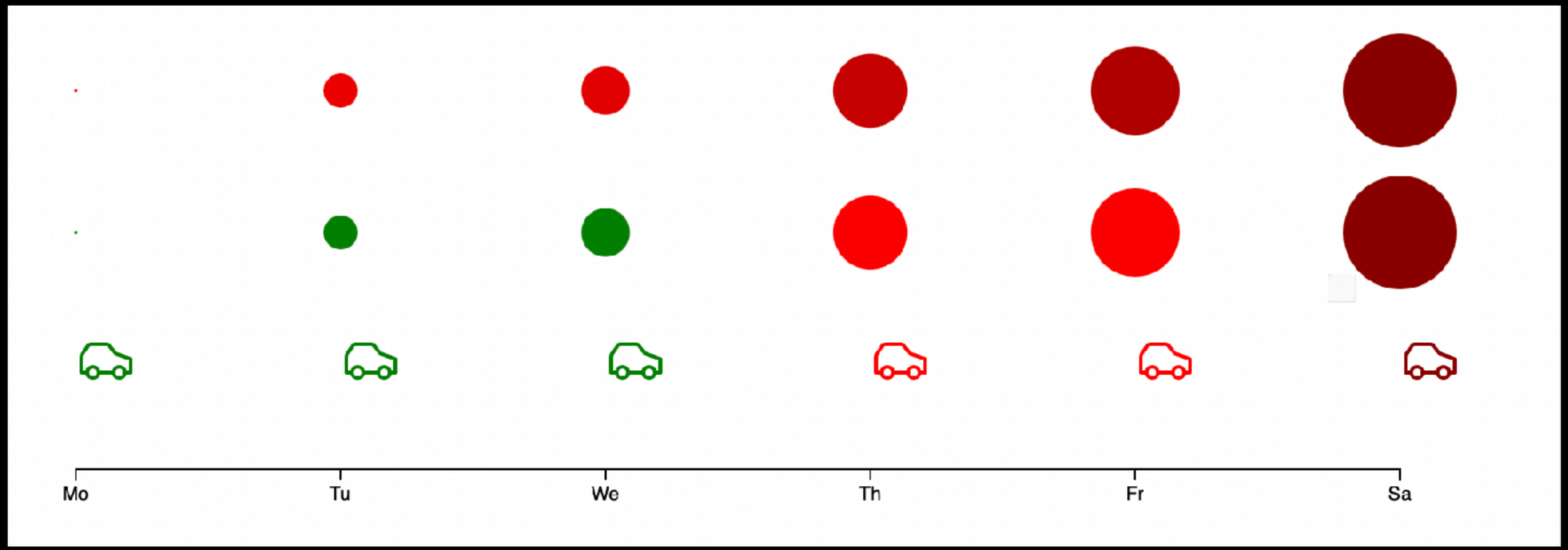
time scale

```
var time = d3.scaleTime()
  .domain([new Date(2000, 0, 1), new Date(2000, 0, 2)])
  .range([0, 960])

time(new Date(2000, 0, 1,  5)) // 200
time(new Date(2000, 0, 1, 16)) // 640
```

All things combined

https://codepen.io/vijnv/pen/eYEKXve?editors=1010



```
Uncaught SyntaxError
Unexpected end of input
```