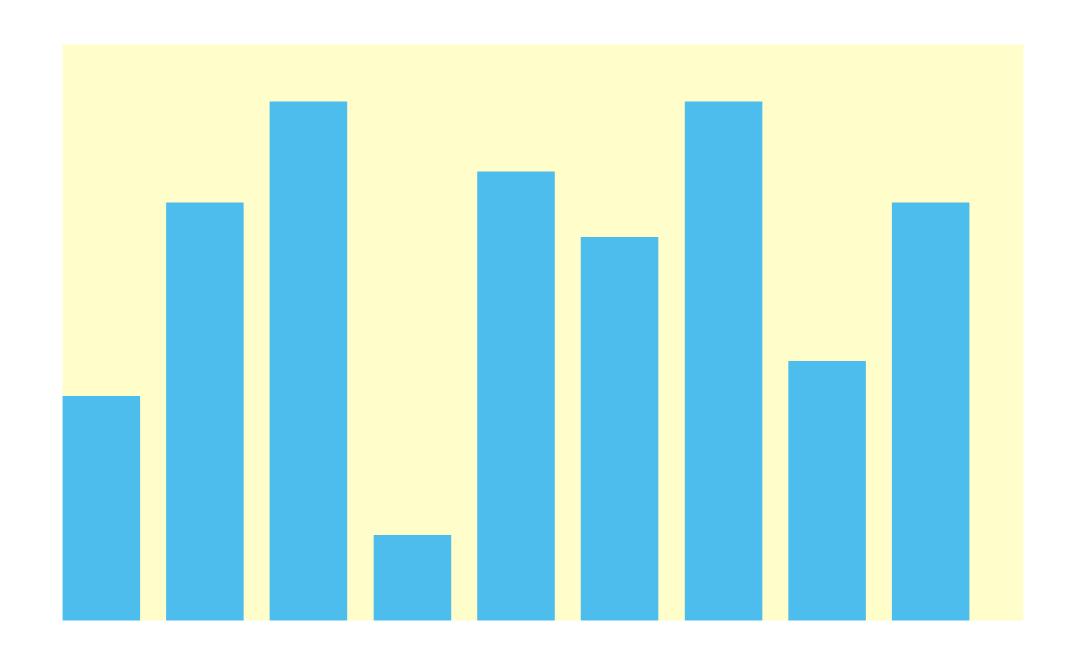
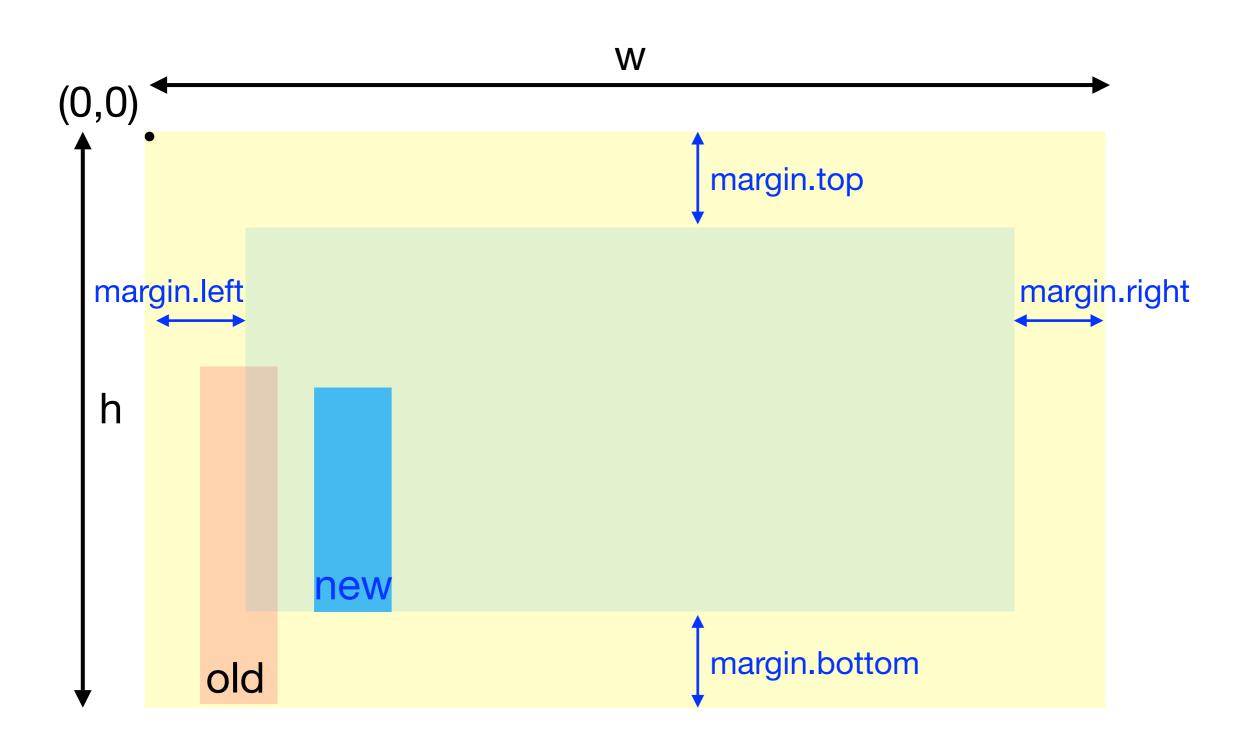
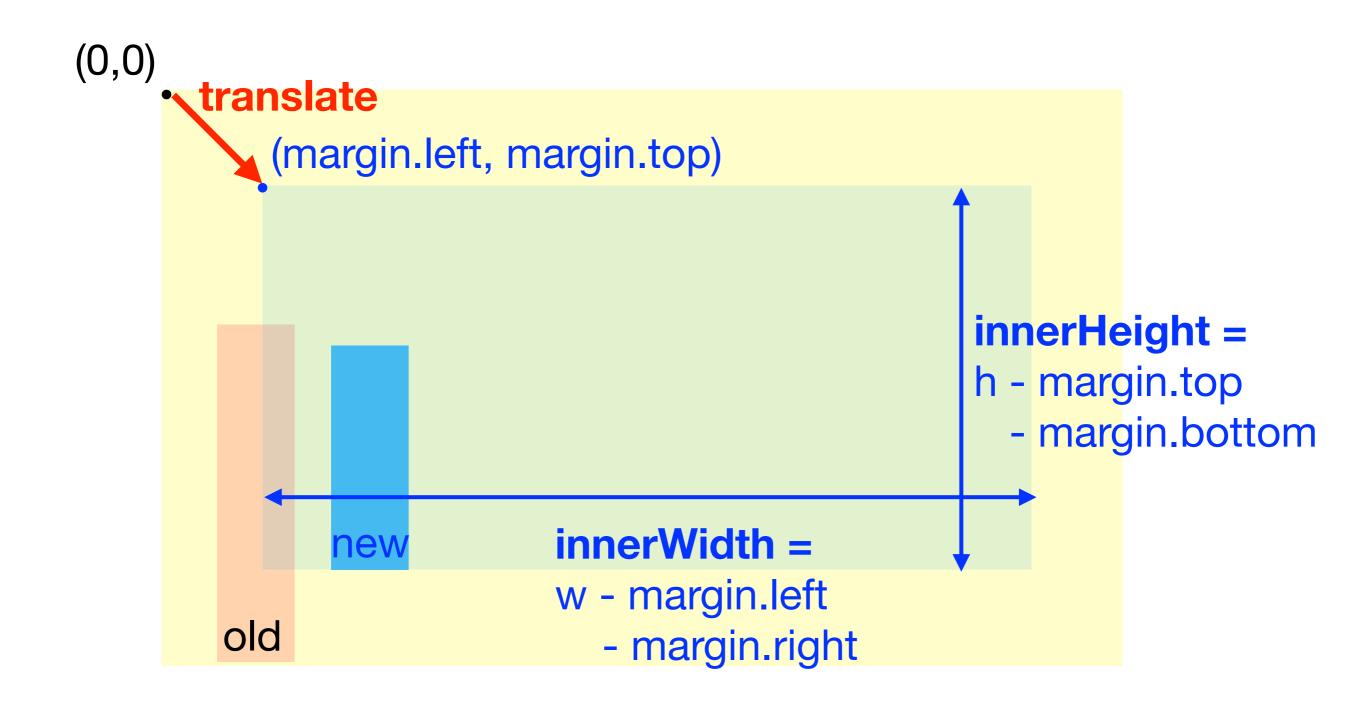
Axes need space



Margin convention



Margin convention



Add background rectangle

```
svg.append("rect")
    .attr("x", 0)
    .attr("y", 0)
    .attr("width", w)
    .attr("height", h)
    .attr("fill", "lightblue");
```

```
var bars = svg.append("g")
.selectAll("rect").data(bardata)
.enter().append("rect");
```

```
      before
      after

      <svg>
      <svg>

      <rect>
      <rect></tect></tect></tect>

      <rect>
      <rect></tect>

      </svg>
      </rect>

      </g>
      </svq>
```

add an id

```
var bars = svg.append("g")
    .attr("id", "plot")
    .selectAll("rect")
    .data(bardata);
<g id="plot">
```

translate

```
var bars = svg.append("g")
    .attr("transform",
         `translate (${margin.left},
                      ${margin.top})`)
  .selectAll("rect")
    .data(bardata);
<g transform="translate (25, 25)">
```

ES6 template literals, use ``

```
var bars = svg.append("g")
    .attr("transform",
          `translate (${margin.left},
                       ${margin.top})')
  .selectAll("rect")
    .data(bardata);
  \mathsf{OR}
  "translate (" + margin.left + ","
      + margin.top + ")")
```