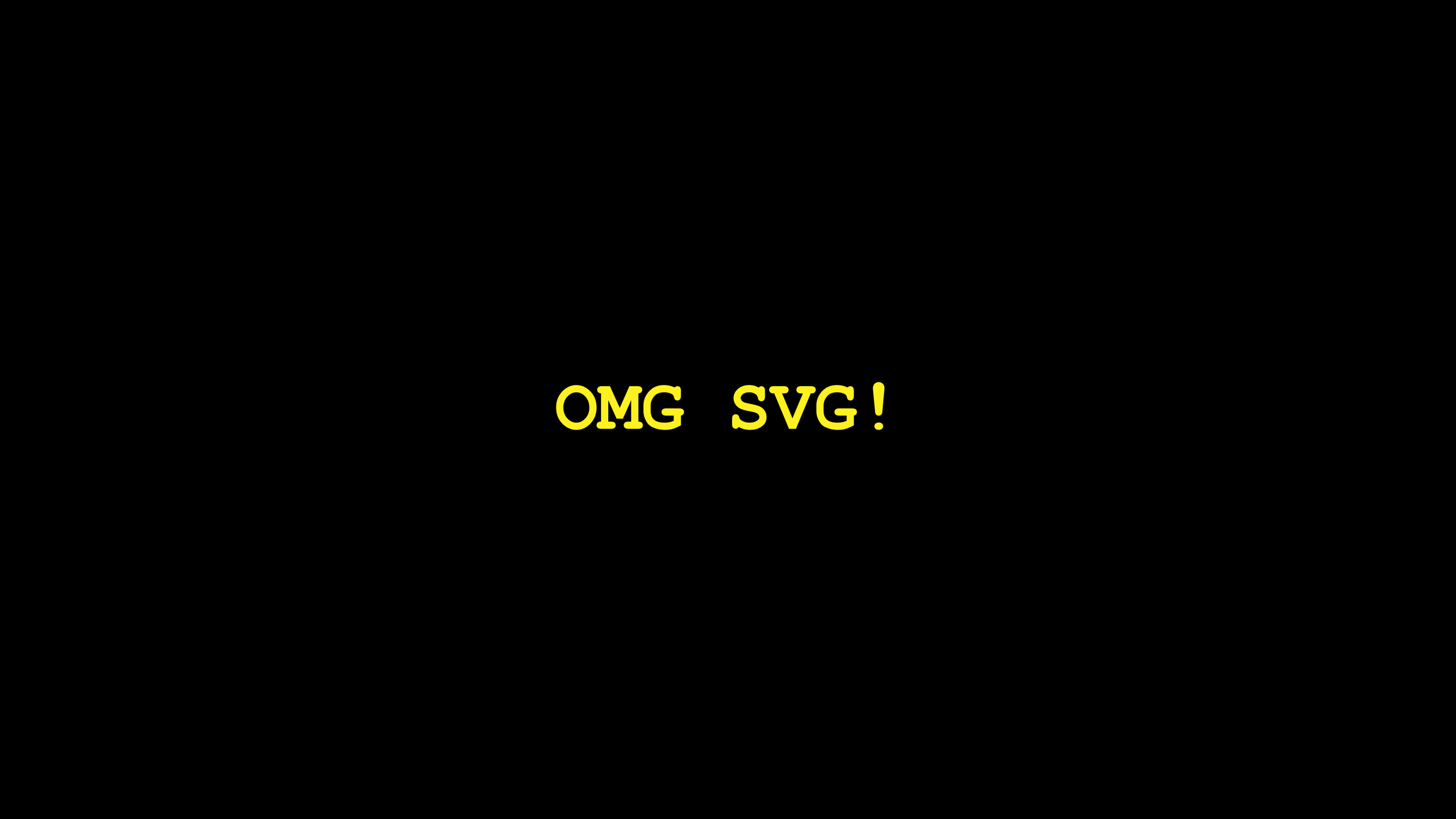
```
tt()
```


OMG SVG!

Schedule

1. Review Tuesday’s assignments
2. What is SVG
3. Create your own

Schedule

1. **Review Tuesday's assignments**
2. What is SVG
3. Create your own

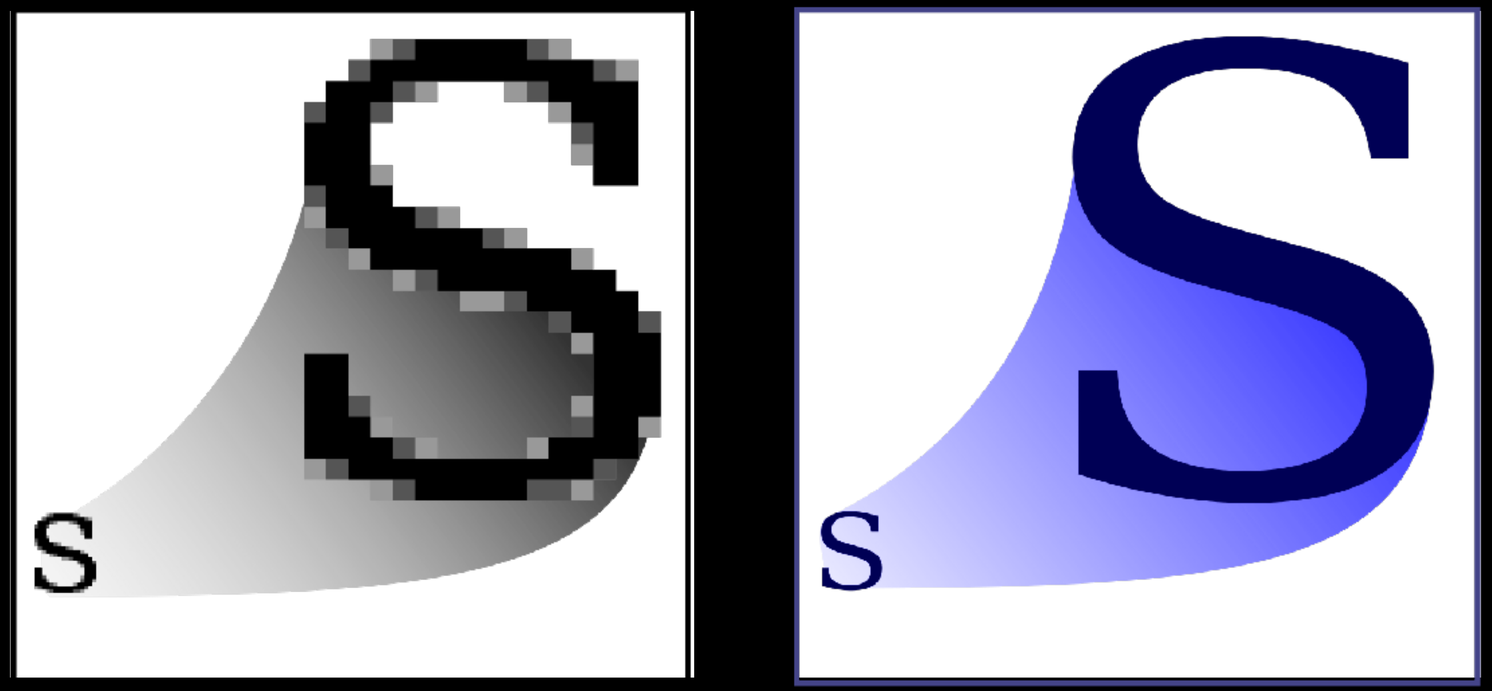
Schedule

1. Review Tuesday's assignments
2. **What is SVG**
3. Create your own

SVG

Scalable **V**ector **G**raphics

SVG



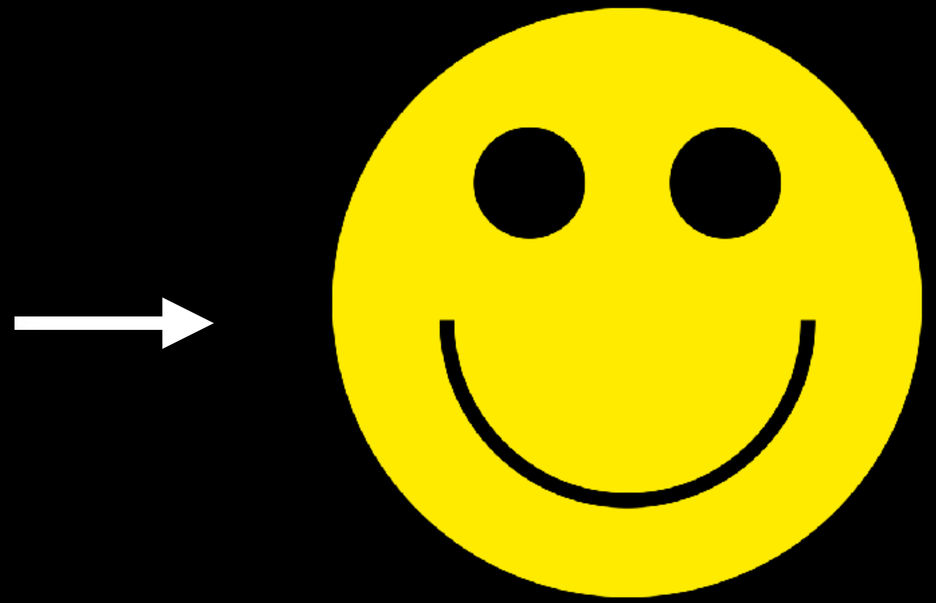
SVG

Smile.svg

Smile.svg

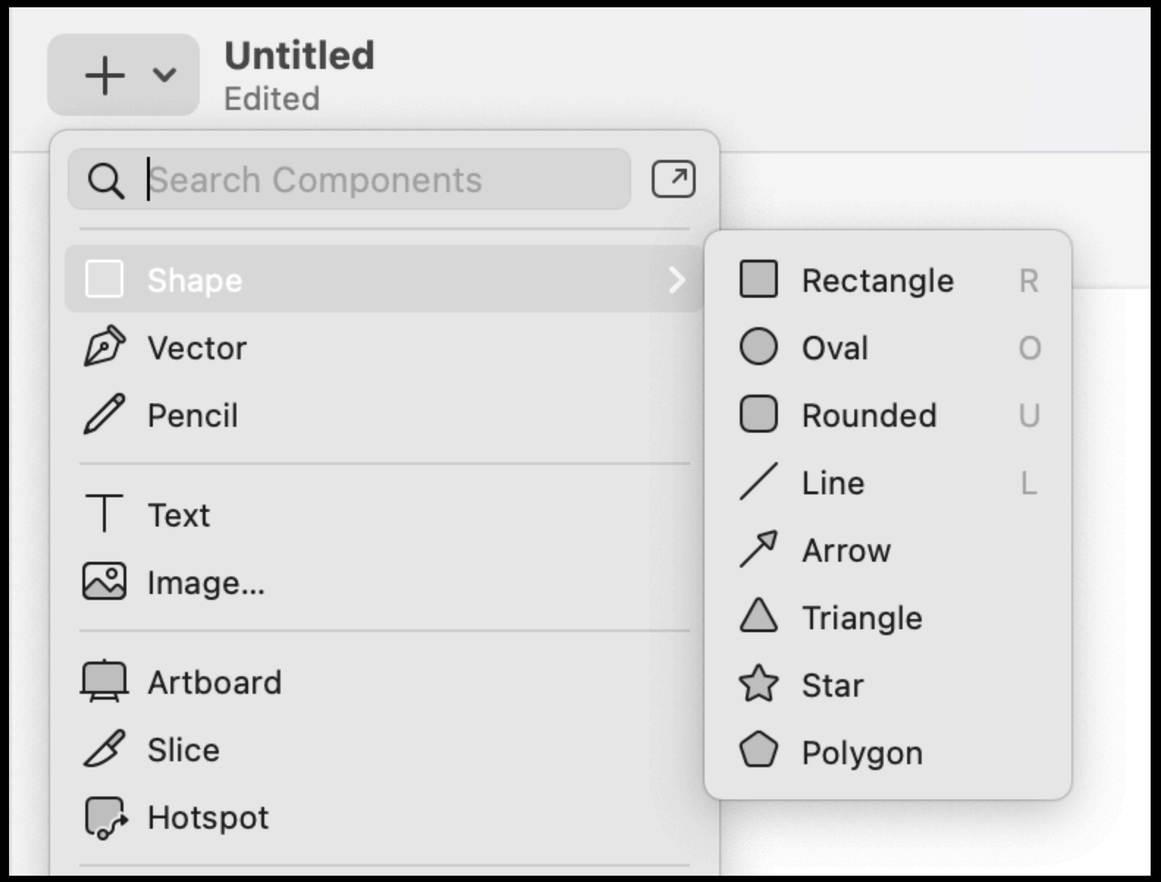
```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <svg width="1080px" height="1080px" viewBox="0 0 1080 1080
   " version="1.1" xmlns="http://www.w3.org/2000/svg" xmlns:
   xlink="http://www.w3.org/1999/xlink">
3      <title>Smile</title>
4      <g id="Smile" stroke="none" stroke-width="1" fill="
       none" fill-rule="evenodd">
5          <circle id="Oval" stroke="#000000" stroke-width="
           20" fill="#FFEB00" cx="540" cy="540" r="406"></
           circle>
6          <circle id="Oval" fill="#000000" cx="409" cy="379"
            r="75"></circle>
7          <circle id="Oval-Copy" fill="#000000" cx="672" cy=
           "379" r="75"></circle>
8          <path d="M298,563.5 C298,697.429052
           406.570948,806 540.5,806 C674.429052,806
           783,697.429052 783,563.5" id="Path" stroke="
           #000000" stroke-width="20"></path>
9      </g>
10 </svg>
11
```

Line 11, Column 1 Spaces: 4 XML



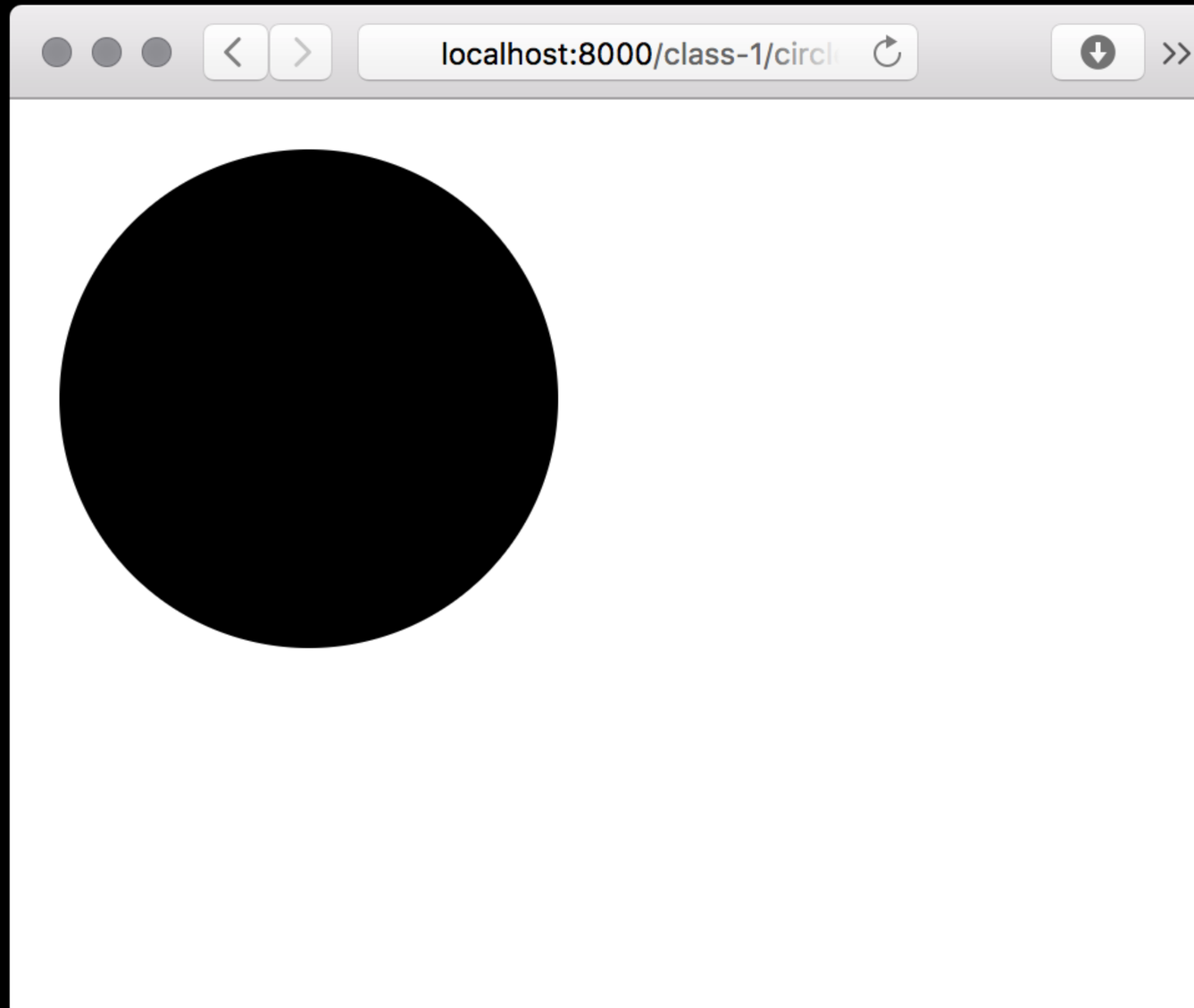
SVG

SVG are constructed out of elements, just like you'd create an illustration in a vector design tool like Sketch



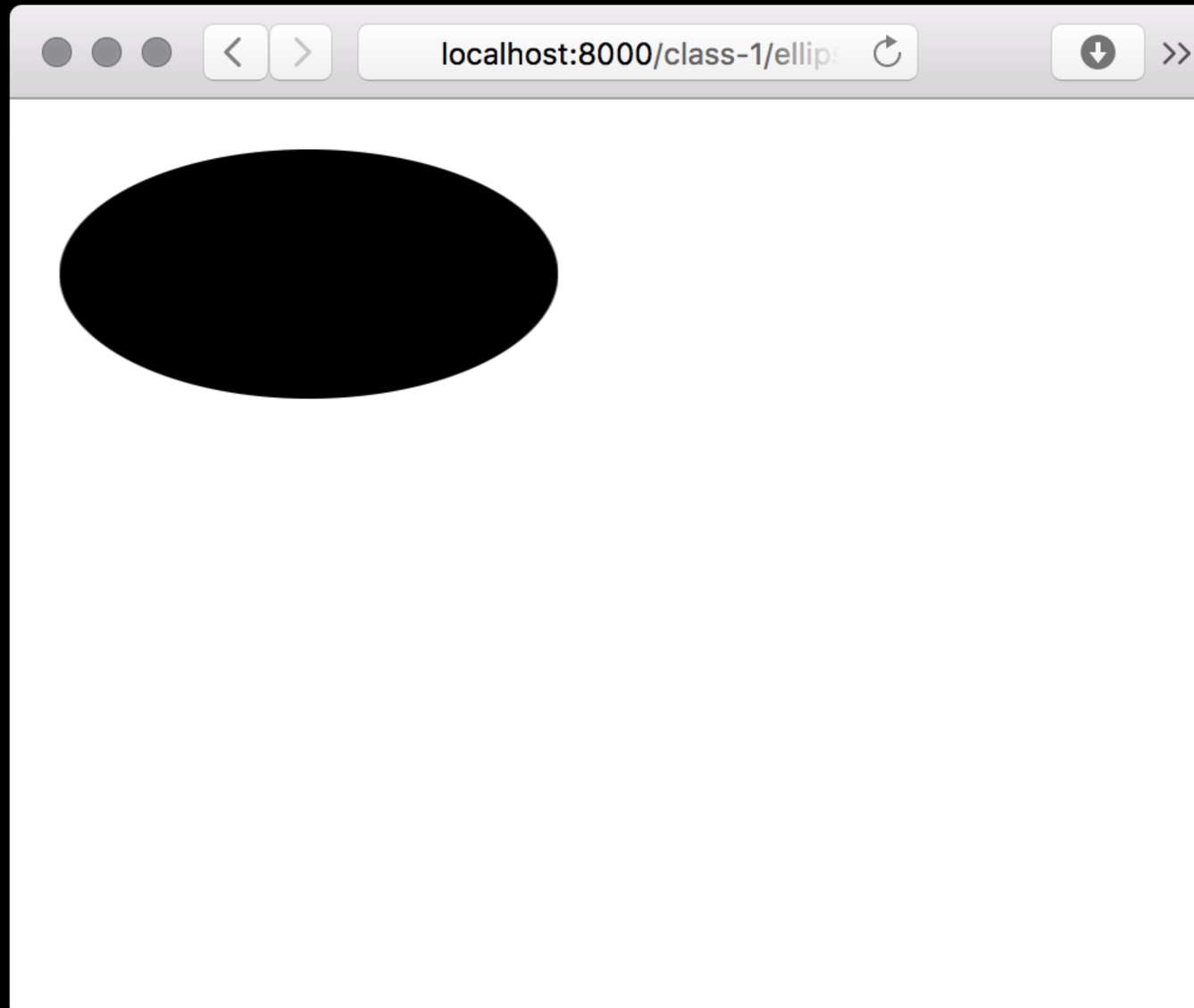
SVG Elements

```
<circle
  cx="120"
  cy="120"
  r="100"
/>
```



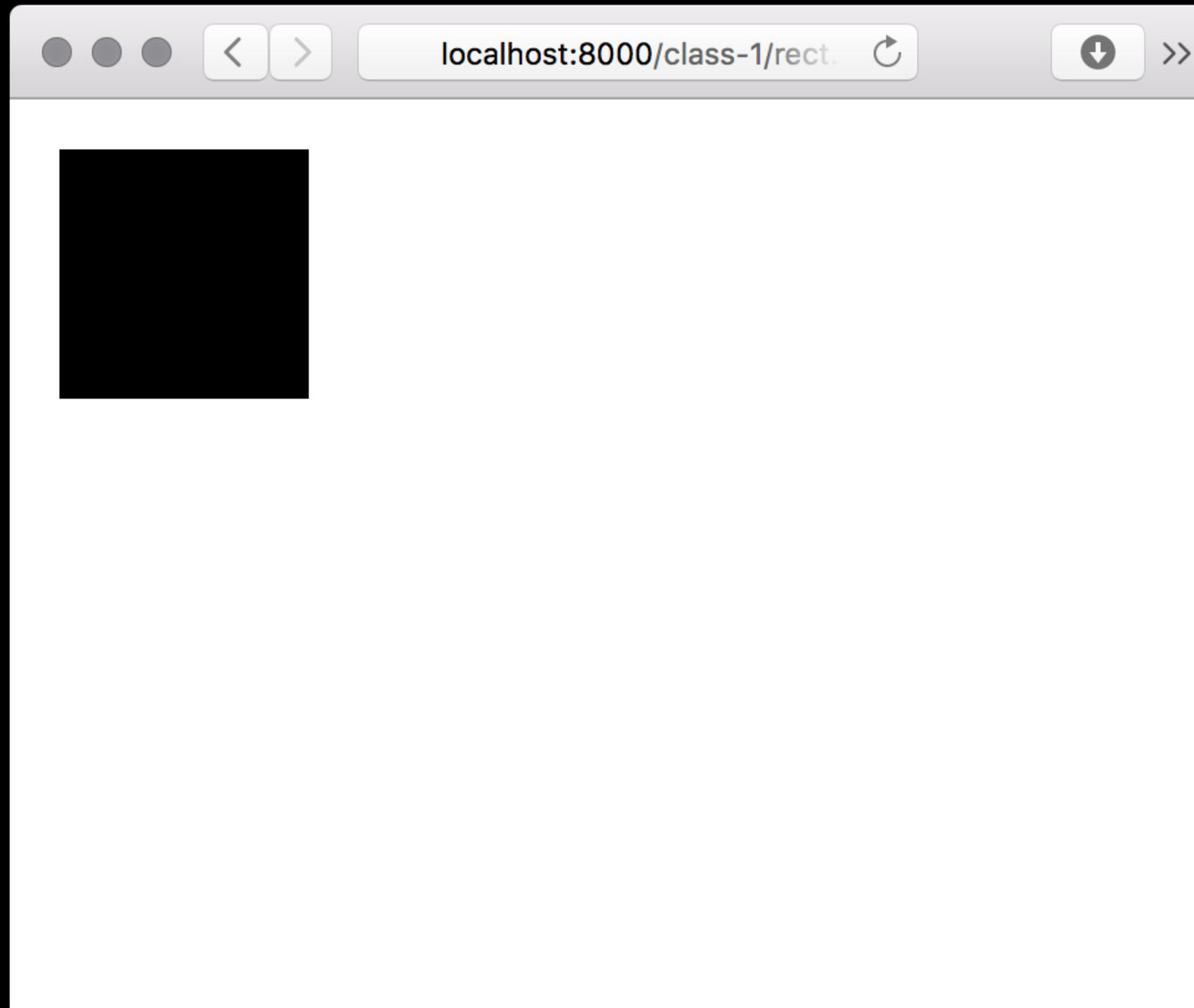
SVG Elements

```
<ellipse
  cx="120"
  cy="70"
  rx="100"
  ry="50"
/>
```



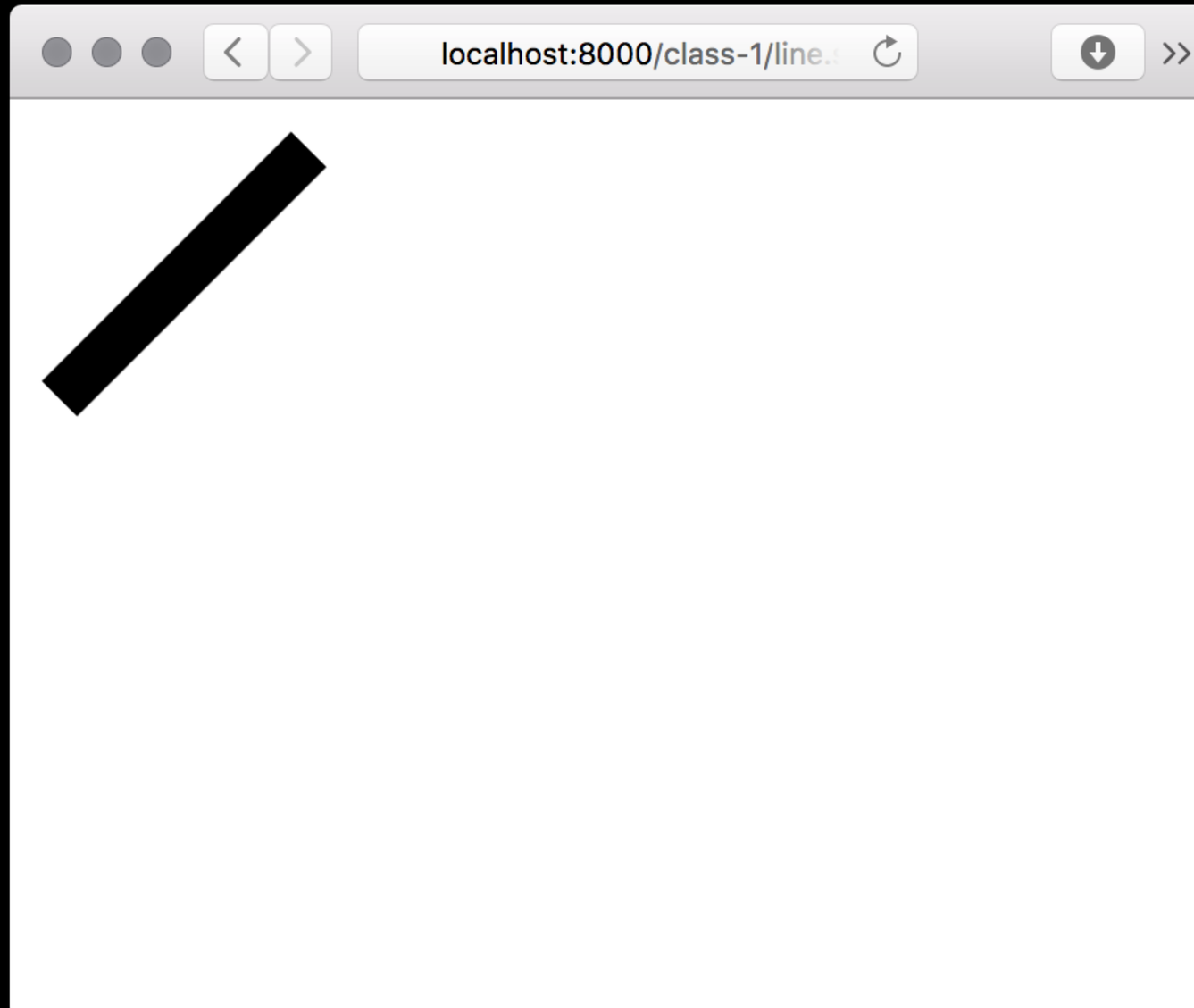
SVG Elements

```
<rect
  x="20"
  y="20"
  width="100"
  height="100"
/>
```



SVG Elements

```
<line
  x1="20"
  y1="120"
  x2="120"
  y2="20"
  stroke-width="20"
  stroke="black"
/>
```

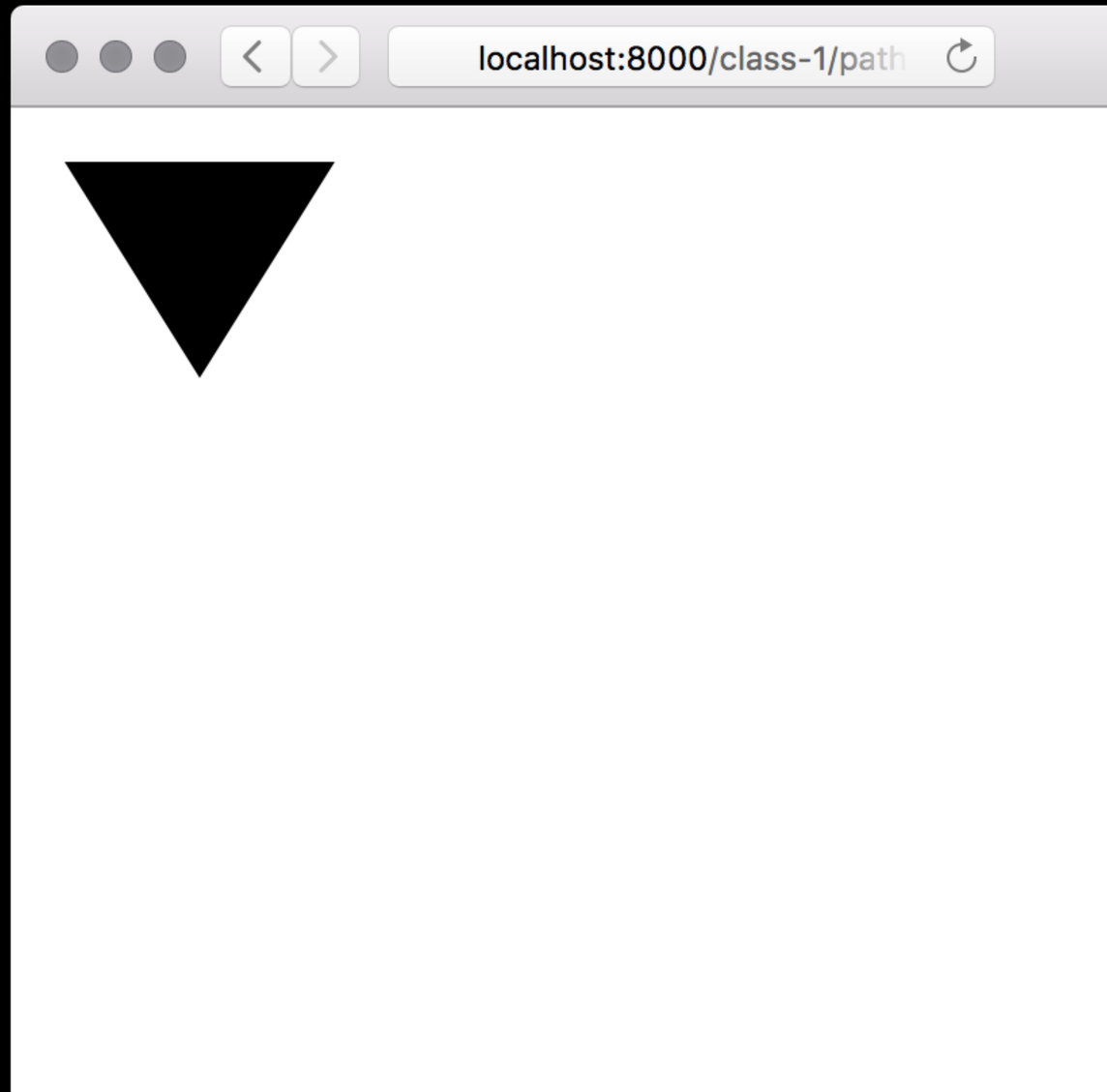


SVG Elements

```
<path
  d="M 20 20 L 120 20 L 70 100 z"
/>
```

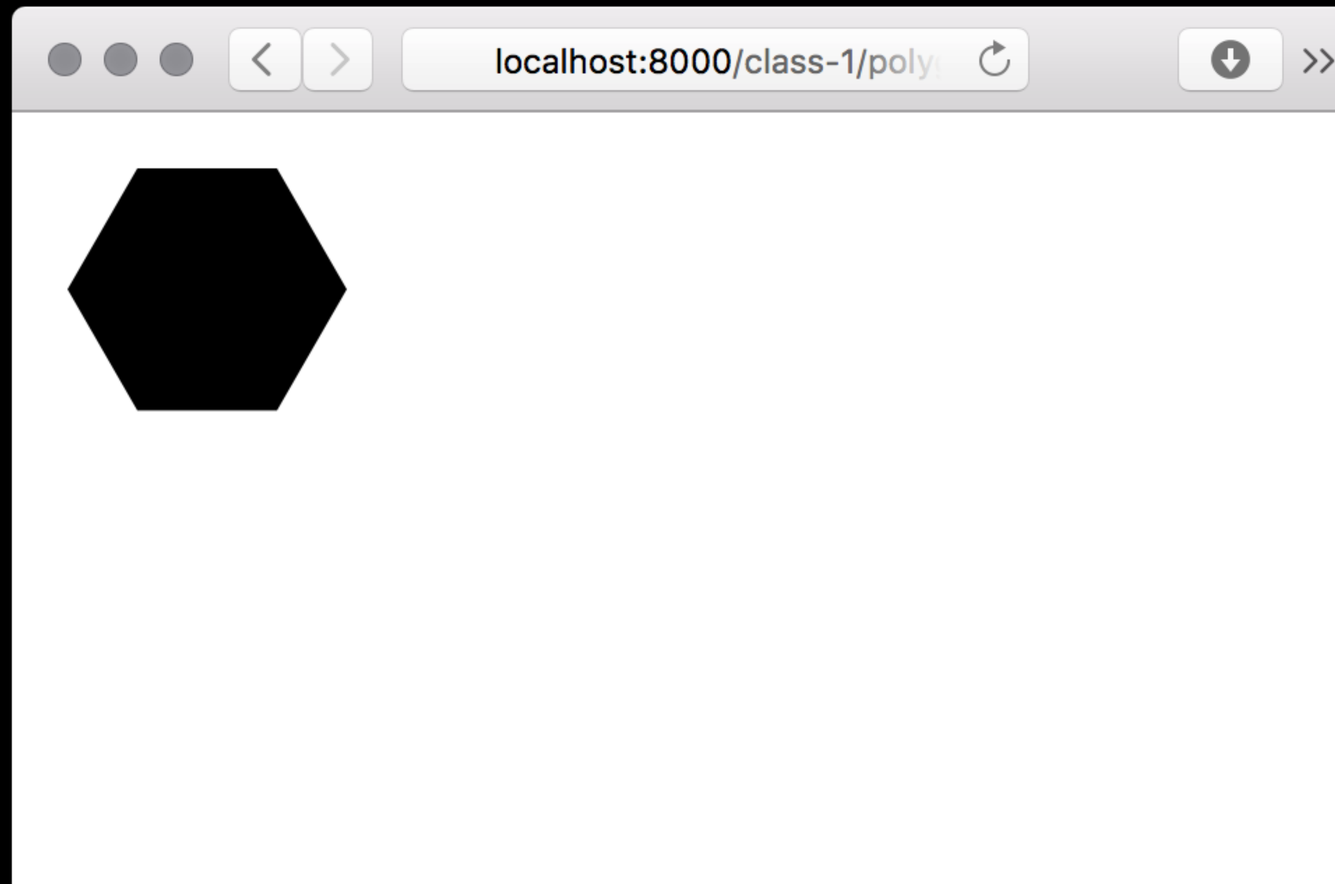
See how the path syntax works:

mavo.io/demos/svgpath



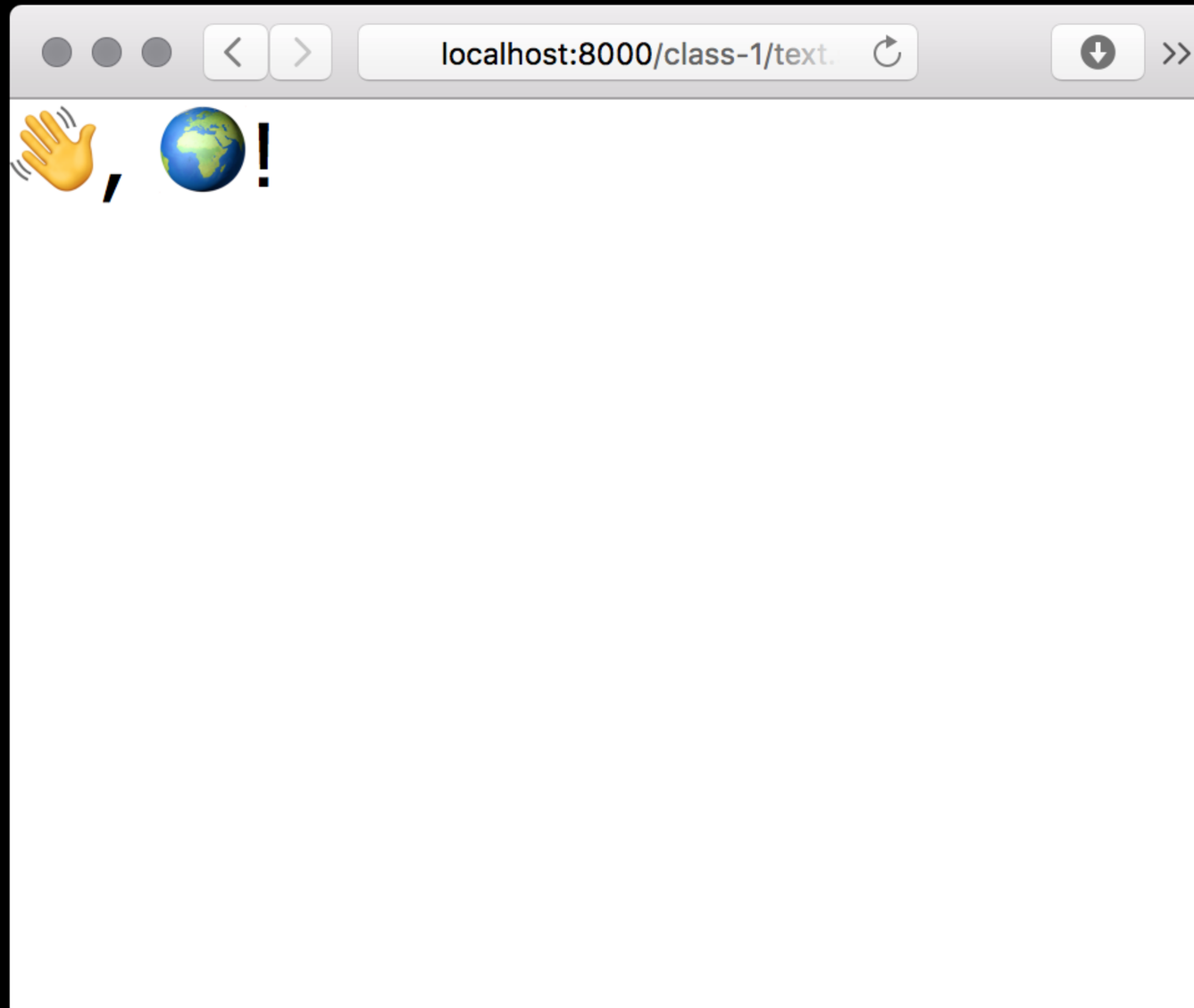
SVG Elements

```
<polygon
  points="120, 63.3 95, 106.7 45, 106.7 20, 63.3 45, 20 95, 20"
/>
```



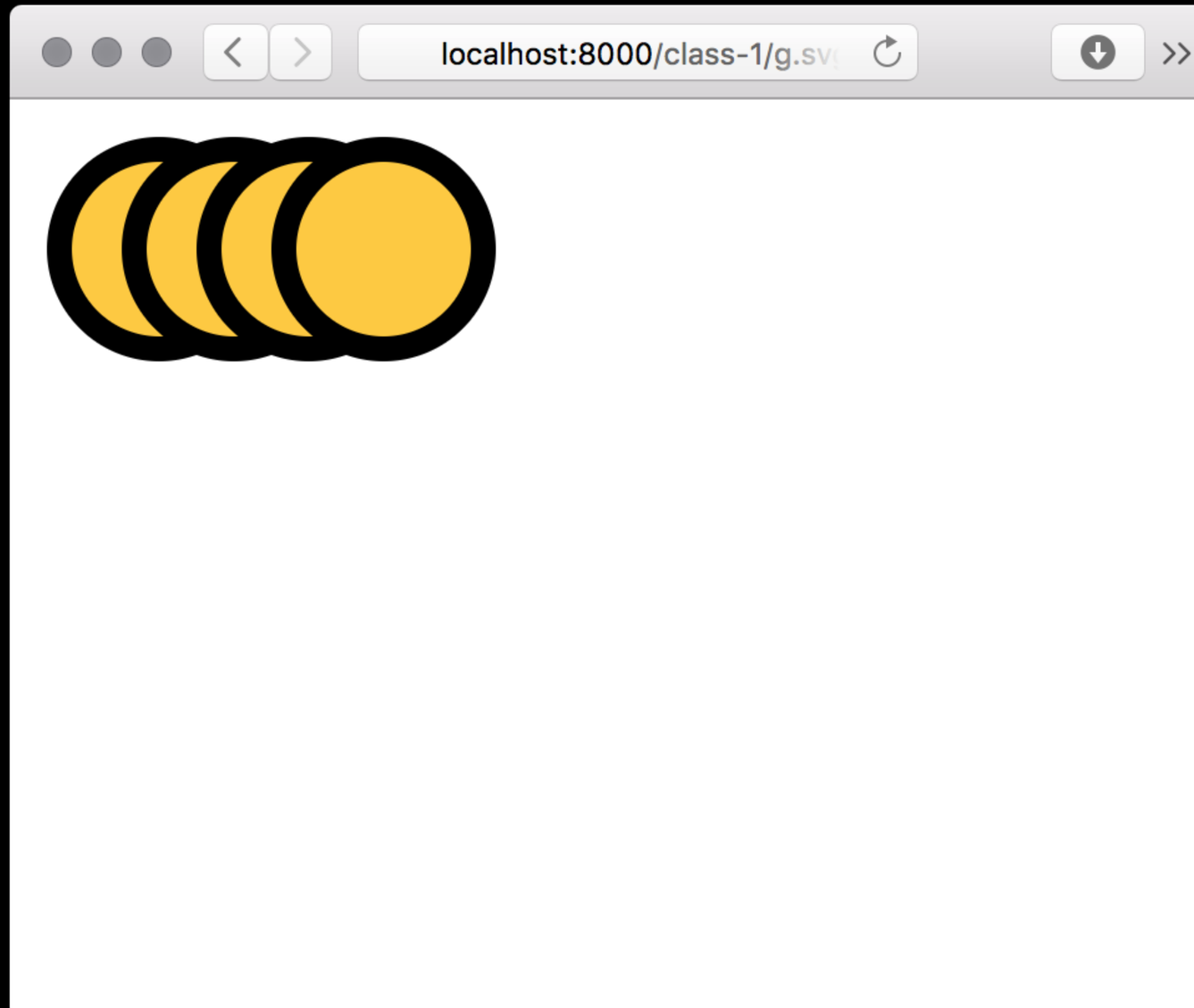
SVG Elements

```
<text
  x="0"
  y="35"
  font-family="Verdana"
  font-size="35"
>👋, 🌍!</text>
```



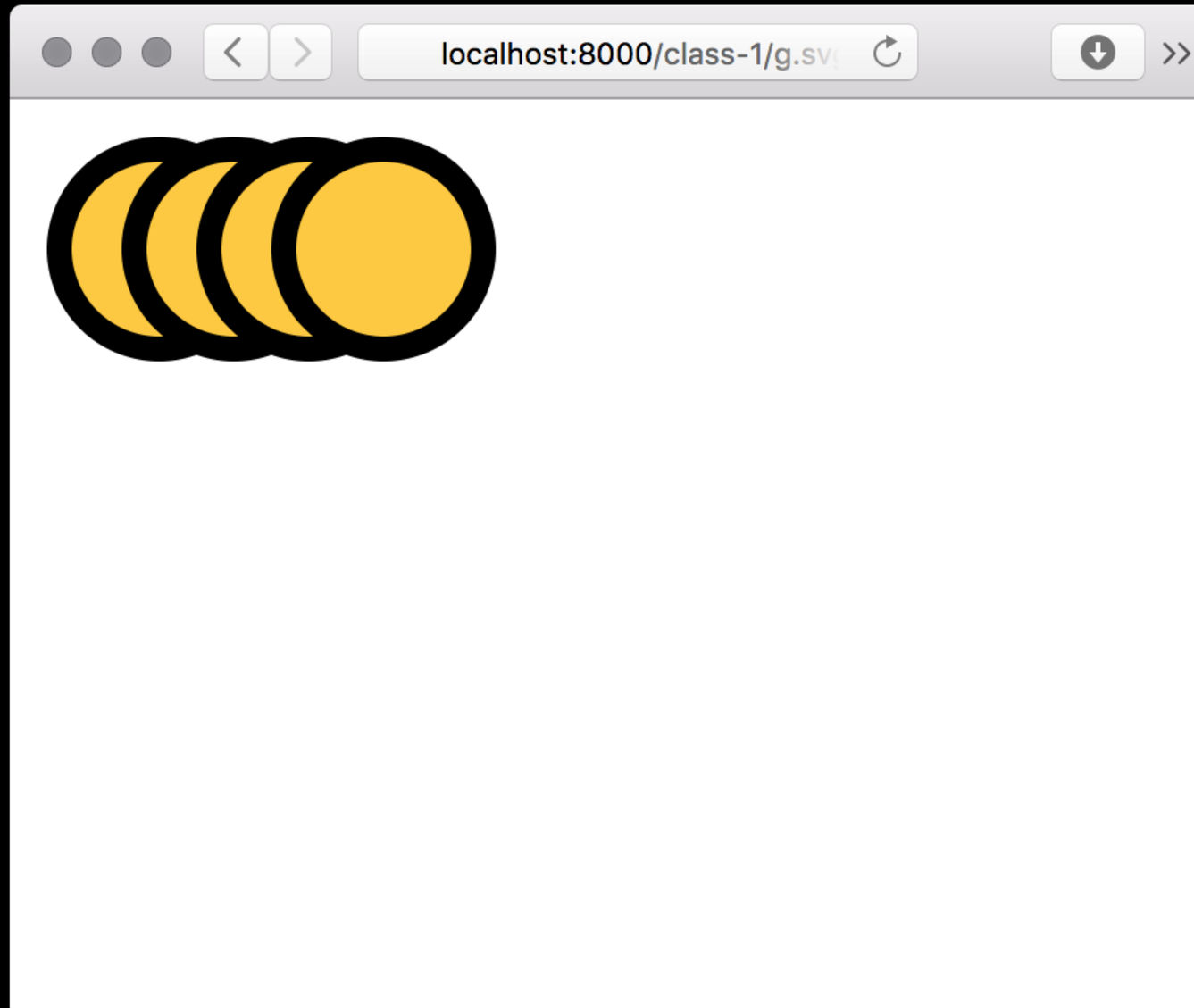
SVG Elements

```
<g
  fill="#feca2f"
  stroke="black"
  stroke-width="10"
>
  <circle cx="60" cy="60" r="40" />
  <circle cx="90" cy="60" r="40" />
  <circle cx="120" cy="60" r="40" />
  <circle cx="150" cy="60" r="40" />
</g>
```



SVG Elements

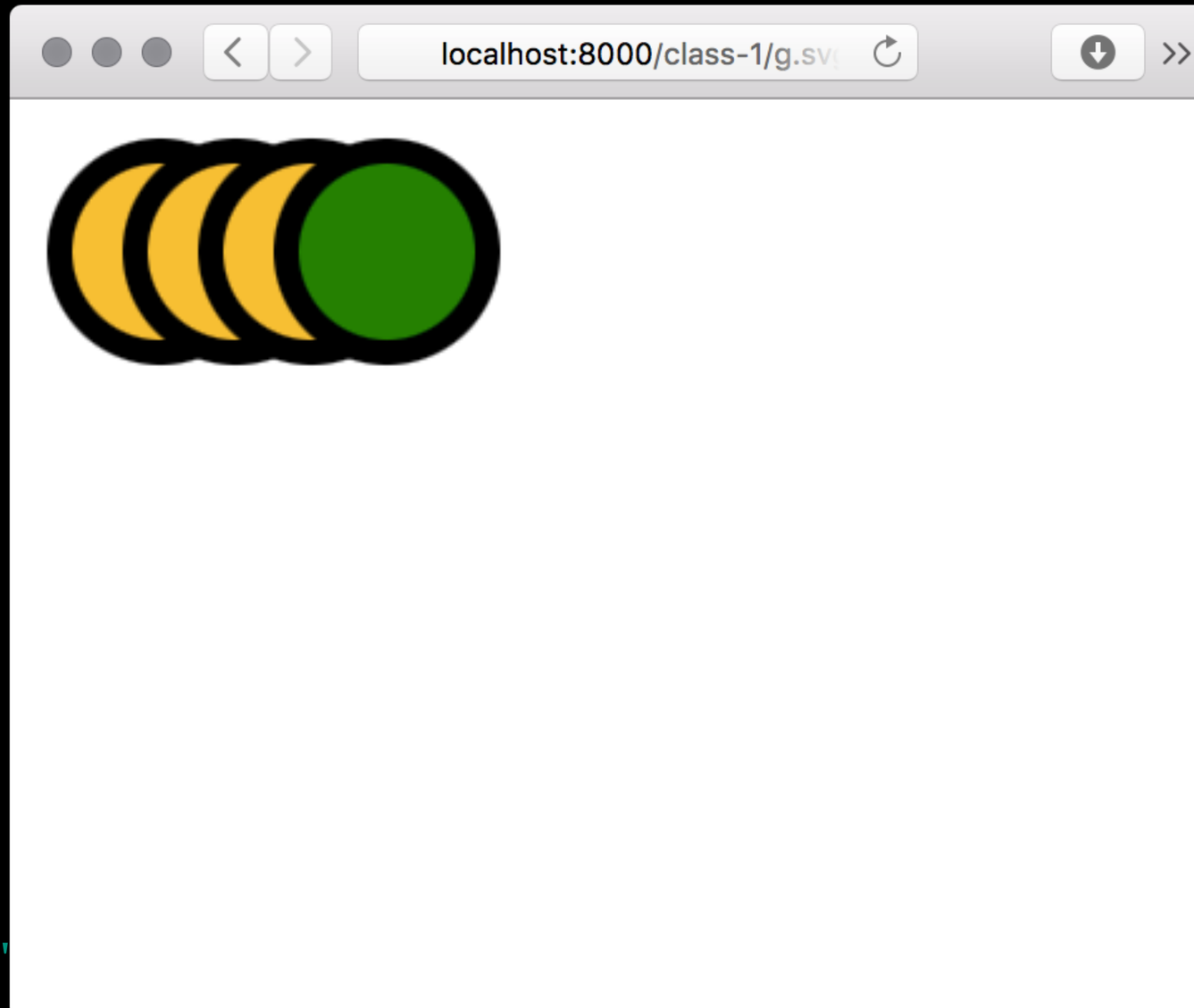
```
<style>
  circle {
    fill: #f7bf33;
    stroke: black;
    stroke-width: 10;
  }
</style>
<circle cx="60" cy="60" r="40" />
<circle cx="90" cy="60" r="40" />
<circle cx="120" cy="60" r="40" />
<circle cx="150" cy="60" r="40" />
```



SVG Elements

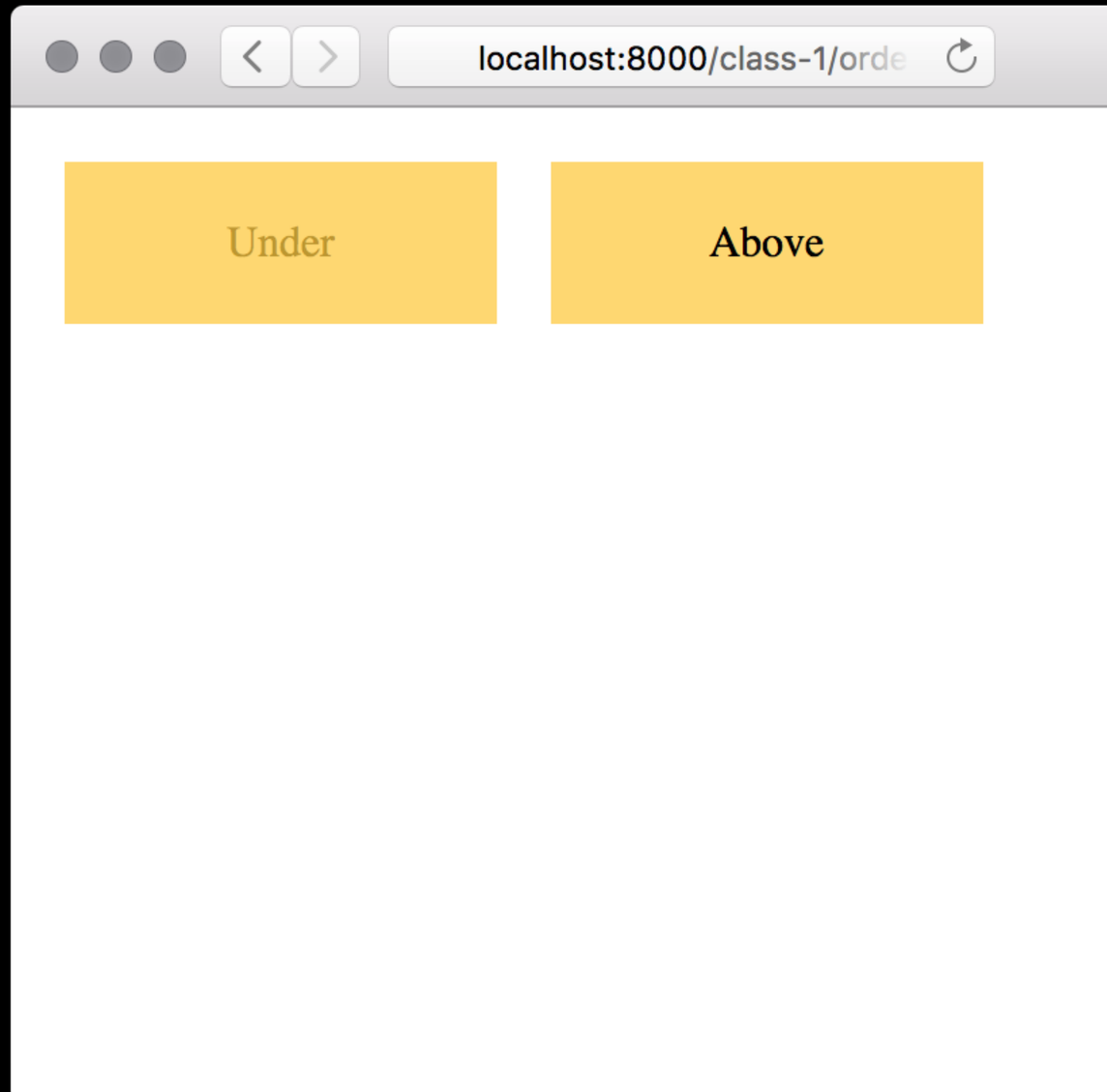
https://codepen.io/vijnv/pen/mdKdNwJ

```
<style>
  circle {
    fill: #f7bf33;
    stroke: black;
    stroke-width: 10;
  }
  circle.highlight {
    fill: green;
  }
</style>
<circle cx="60" cy="60" r="40" />
<circle cx="90" cy="60" r="40" />
<circle cx="120" cy="60" r="40" />
<circle class="highlight" cx="150" cy="60"
```



SVG Elements

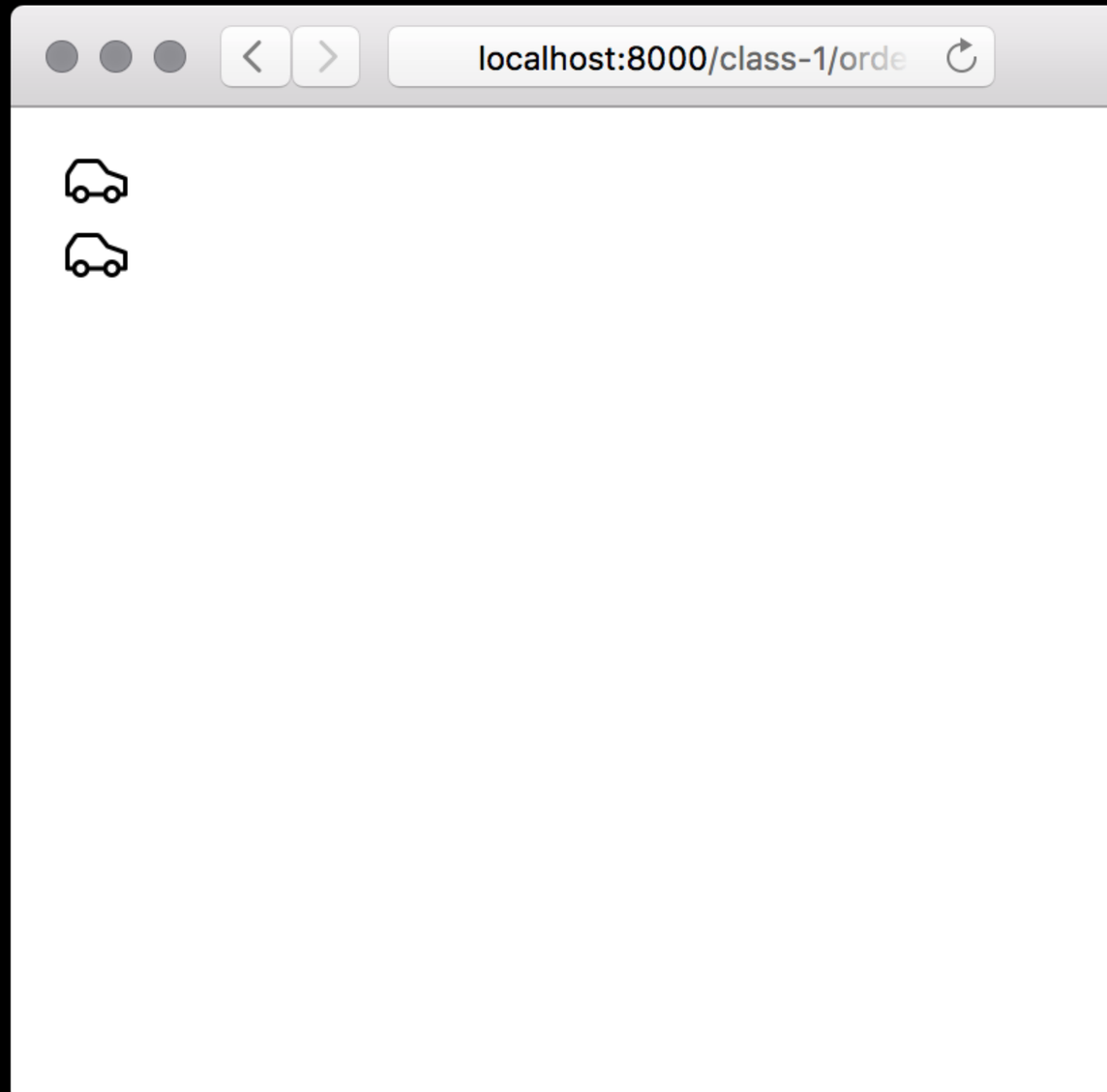
```
<style>
  text {text-anchor: middle}
  rect {fill: #feca2f; opacity: 0.75}
</style>
<text x="100" y="55">Under</text>
<rect x="20" y="20" width="160" height="60" />
<rect x="200" y="20" width="160" height="60" />
<text x="280" y="55">Above</text>
```



SVG Elements

https://codepen.io/vijnv/pen/mdMaXqV

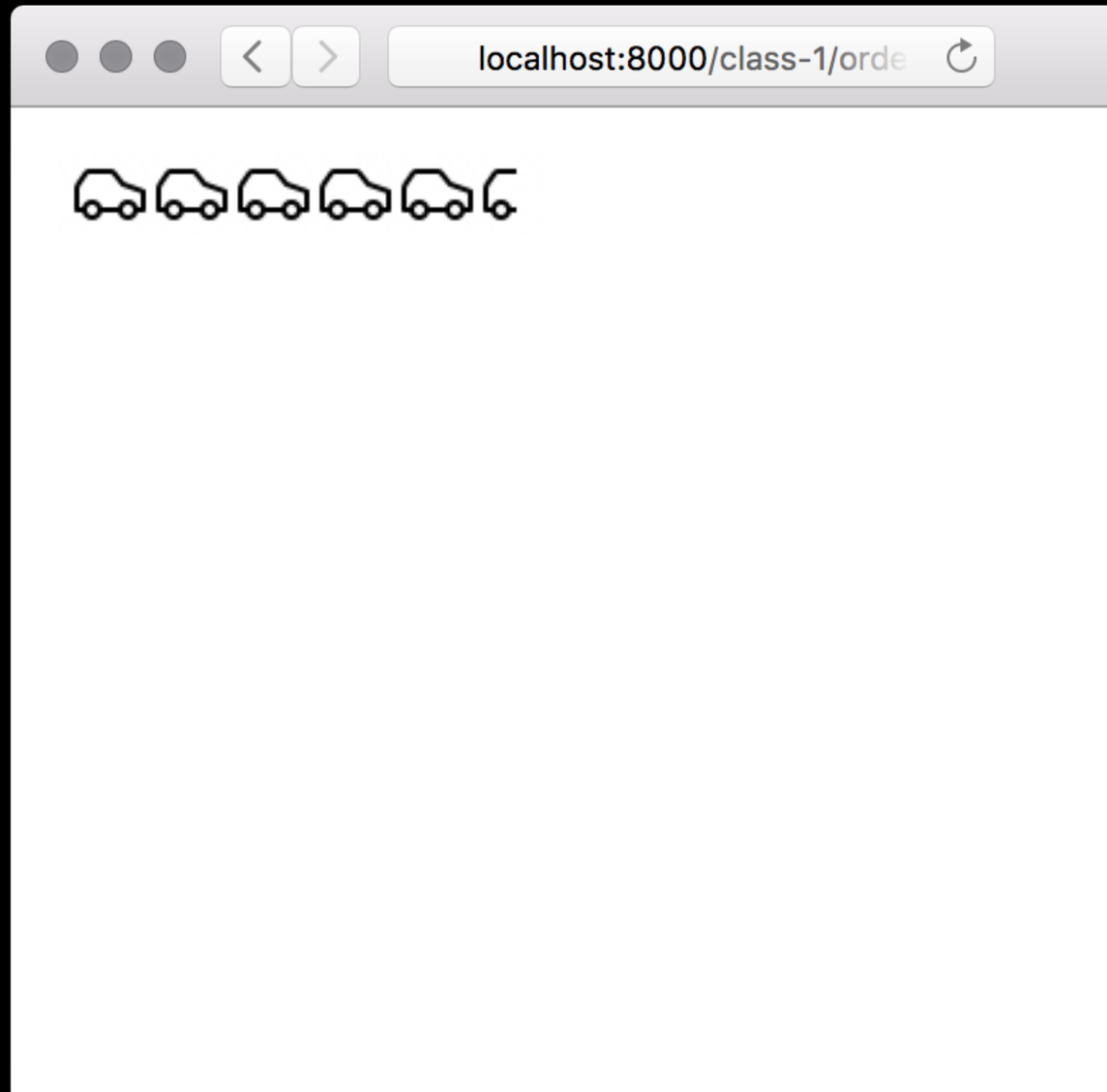
```
<svg width="500" height="500">
  <defs>
    <g id="car" transform="scale(1.5)">
      <path d="M29.3379 (…)"/>
    </g>
  </defs>
  <g id="wrapper">
     <use href="#car"/>
     <use href="#car" y="50"/>
  </g>
</svg>
```



SVG Elements

https://codepen.io/vijnv/pen/yLEgzbW

```
<svg width="500" height="500">
  <defs>
    <pattern id="pattern-car" width="32"
height="32" patternUnits="userSpaceOnUse">
      <path d="M29.3379 (…)"/>
    </pattern>
  </defs>
  <g id="barchart">
    <rect height="32" width="175"
fill="url(#pattern-car)"/>
  </g>
</svg>
```



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Exercise

1. Read up about the basic SVG elements: edu.nl/x766p
2. Get a random Emoji: edu.nl/a7cfw
3. Create an empty Codepen
4. Draw the Emoji you've received as best as you can!
5. Ready for more? Try other elements: edu.nl/wv8fn
6. Even more? Add a dark mode and animation

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