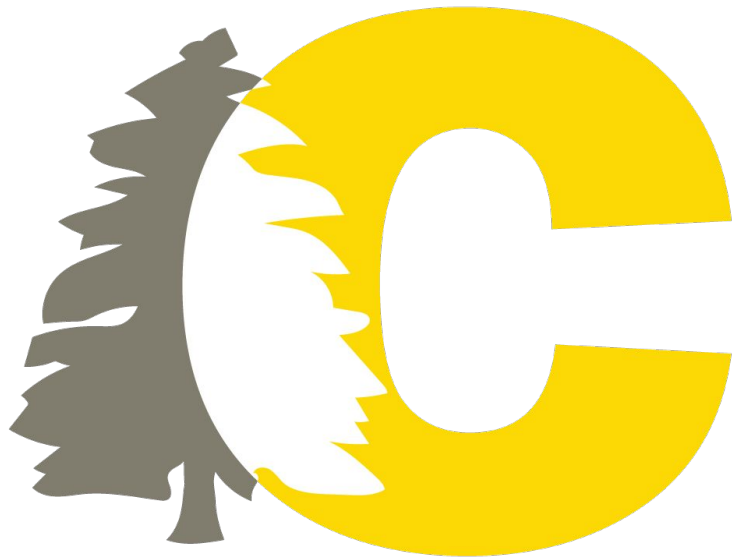# Creating reusable SVGs with react

Isabela Moreira

@isabelacmor

HI 👋

What we'll cover

- What are SVGs?
- Creating an SVG
- Creating a React component from an SVG
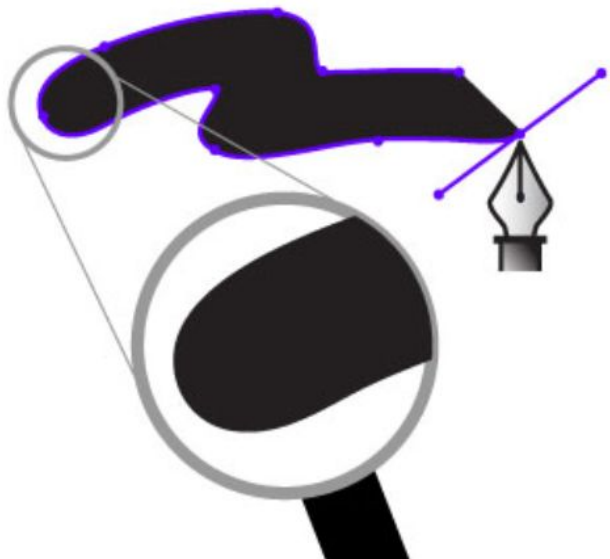- Having fun with SVGs 😎

What this talk isn't 🙅‍♀️

- Comprehensive deep-dive into SVGs
- End-to-end tutorial

What this talk is 🙆

- Intro to working with SVGs
- Fun with a dash of practical applications

What are SVGs?

Scalable vector graphics

Raster images

What are SVGs?
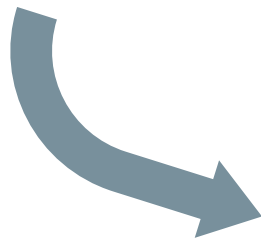
```
<svg>
  <rect height="100" width="100"
    style="stroke: red; fill: blue" />
</svg>
```

What are SVGs?

```
<path d="M104.086 206.612V197.133L99.235 189.858L104.086
  206.612Z" fill="#F38191" />
```

- **MoveTo: M, m**
- **LineTo: L, l, H, h, V, v**
- **Cubic Bézier Curve: C, c, S, s**
- **Quadratic Bézier Curve: Q, q, T, t**
- **Elliptical Arc Curve: A, a**

Learn more about path commands:
https://developer.mozilla.org/en-US/docs/Web/SVG/Attribute/d#Path_commands

Why SVGs?

- **Editable**
- **Performant**
- **Accessible**

Accessibility with SVGs

- Scalable for vision-impaired
- Assistive technologies 💔 inline SVGs

Accessibility with SVGs

Use `<title>` and `<desc>` to describe your SVGs

```
<svg aria-labelledby="title" aria-describedby="desc">
    <title id="title">Your title here</title>
    <desc id="desc">Your description here</desc>
    <!-- your SVG code →
</svg>
```

Accessibility with SVGs

 Use roles to give more context

```
<svg role="img">
    <!-- your SVG code →
    <a xlink:href="https://example.com" role="link">
</svg>
```

CascadiaJS 2019   @isabelacmor

🎉 LIVE CODING 🎉

Wrapping up

- SVGs are scalable and accessible (please use them!)
- Look for a unique aspect of the part you want to find code for
- Get creative!

CascadiaJS 2019   🐦 @isabelacmor

✨ THANK YOU ✨

🐦 @isabelacmor