

Intro to SVG

Let's start →






Estee Tey

- 🖥️ Grad Software Developer at Thoughtworks
- ✎️ Writes about Web Dev, UI, Dev growth
- 🎨 Experienced in creating mockups & graphics

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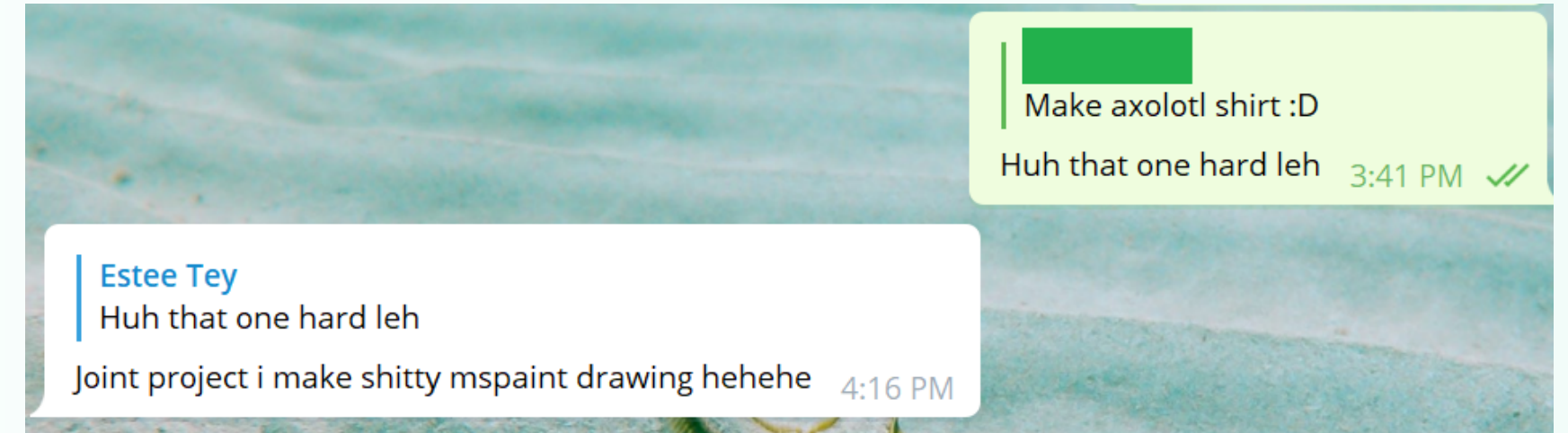
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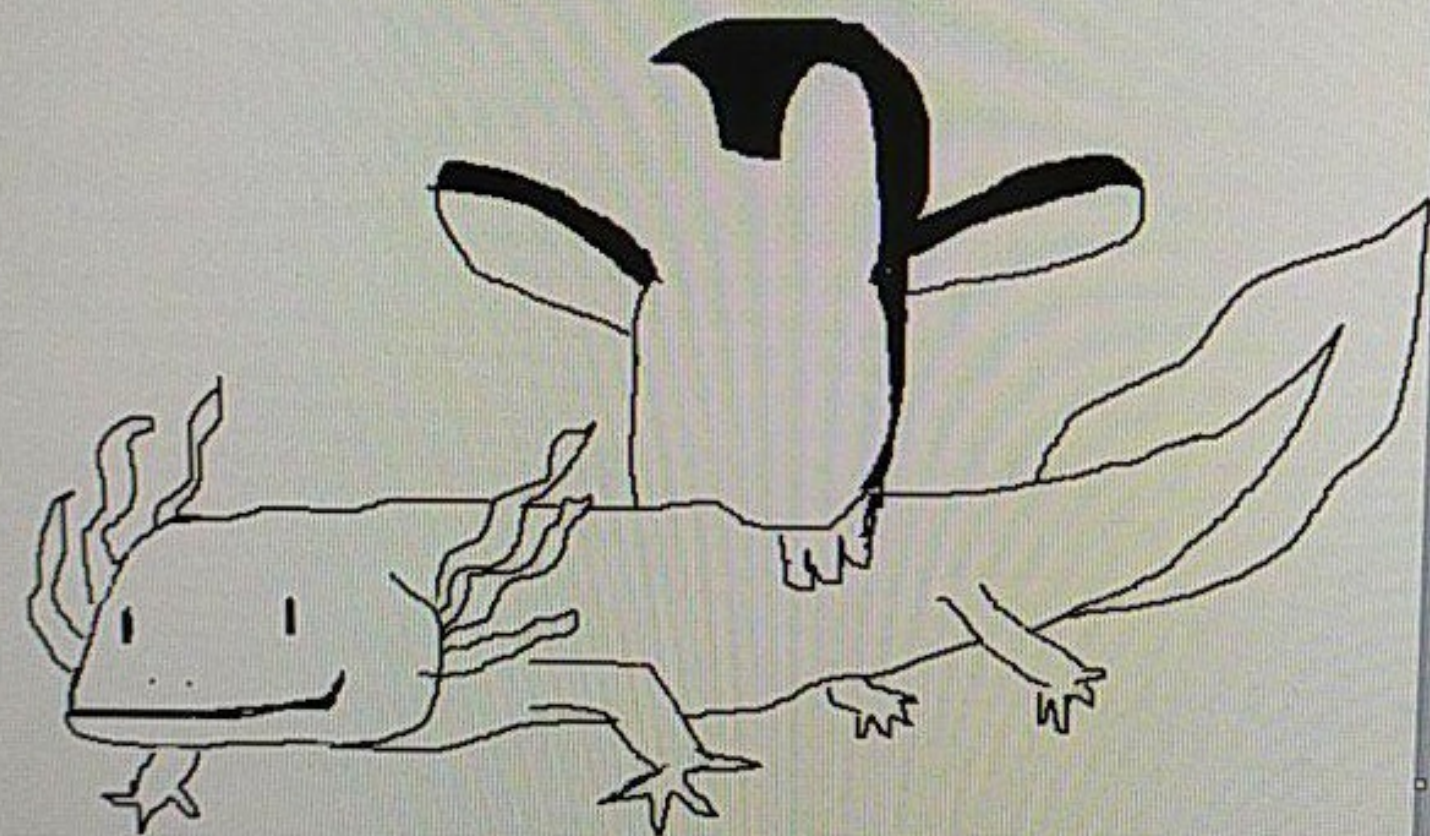
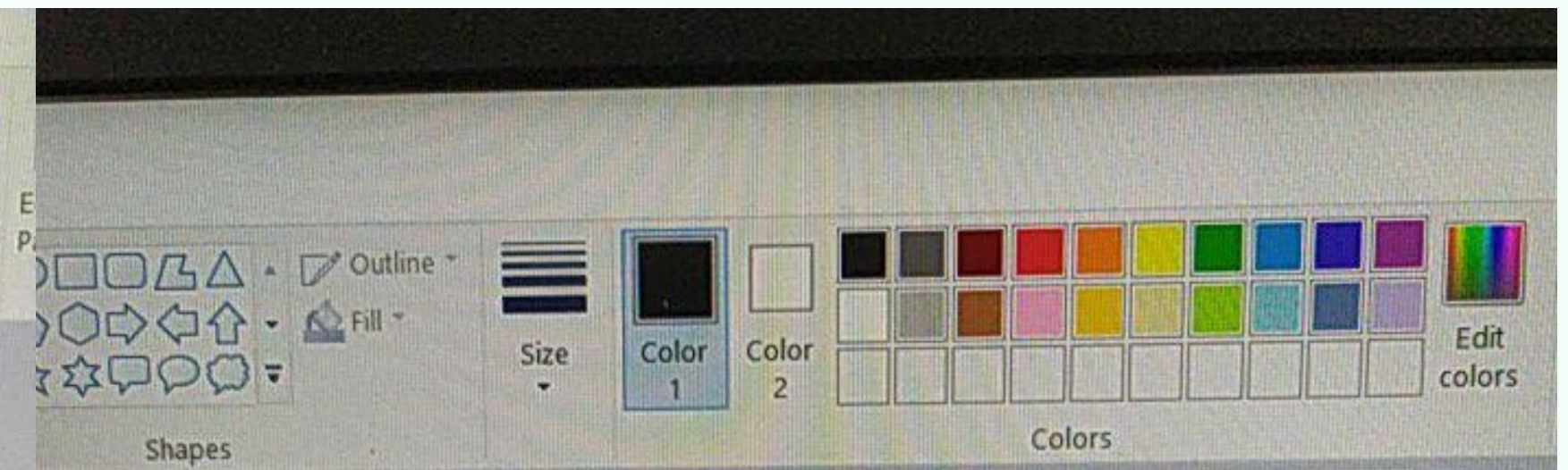
1. What is SVG?
 2. Why do we use SVG?
 3. How do we get SVG?
 4. How to use SVG?
- 

What is SVG?

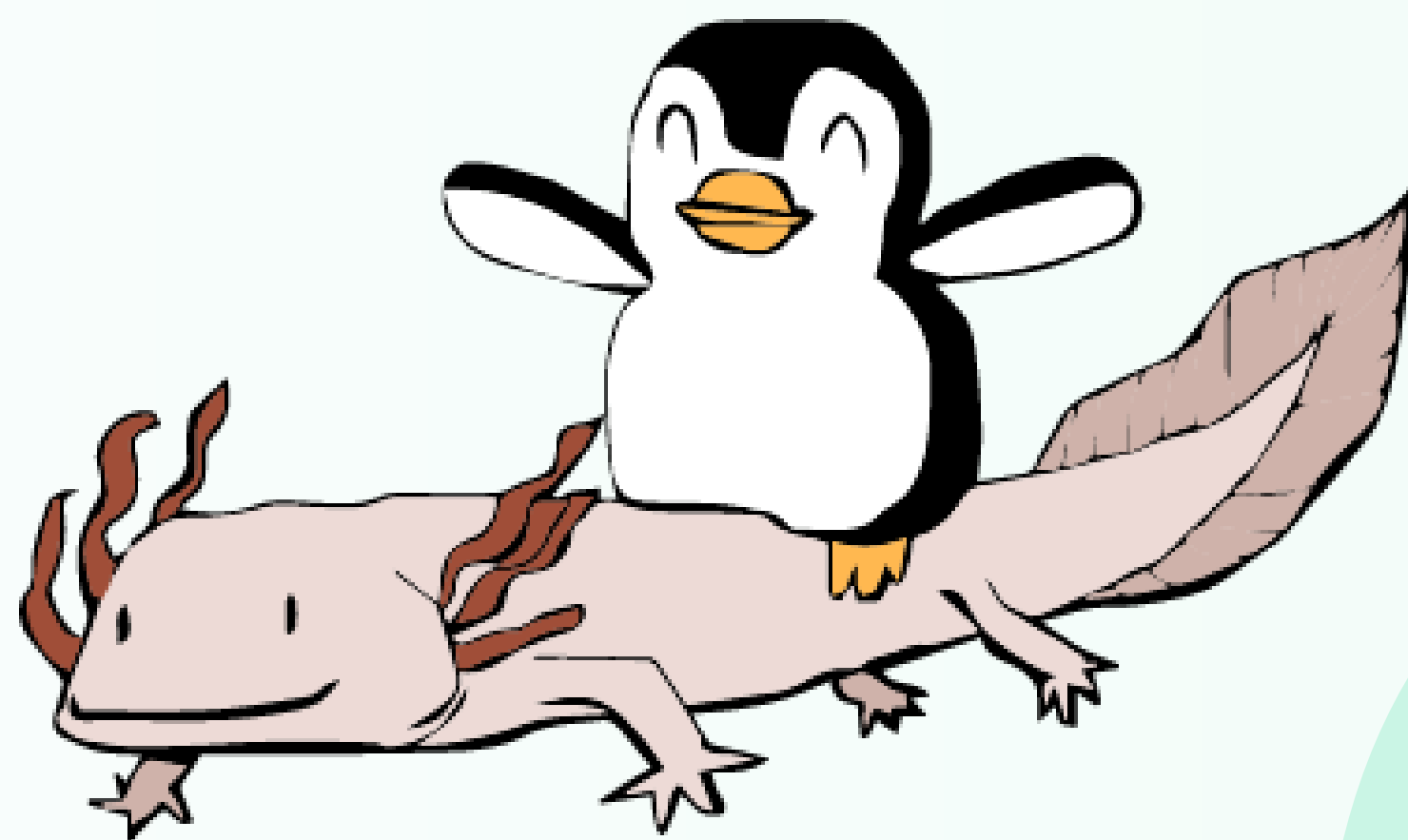
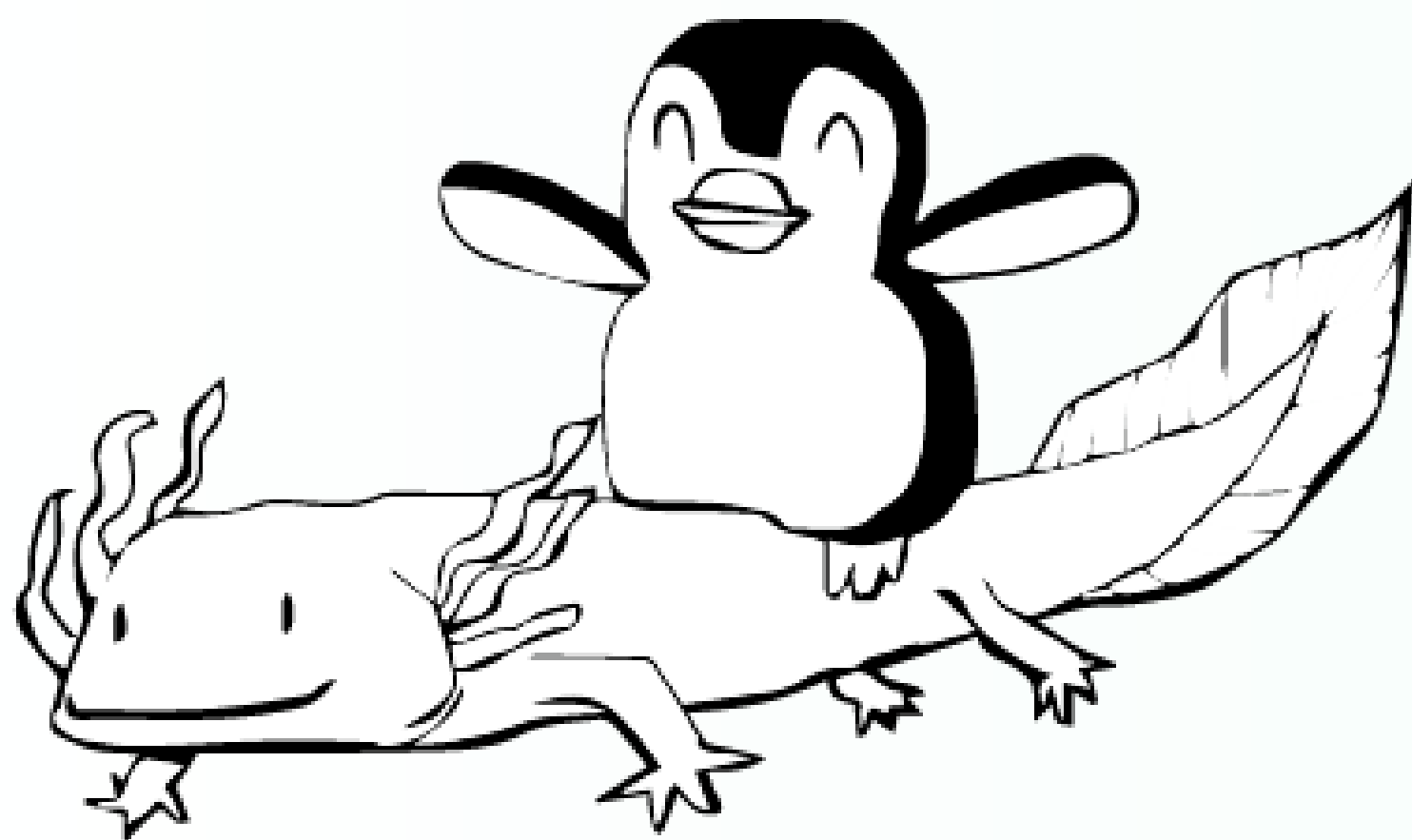
Images

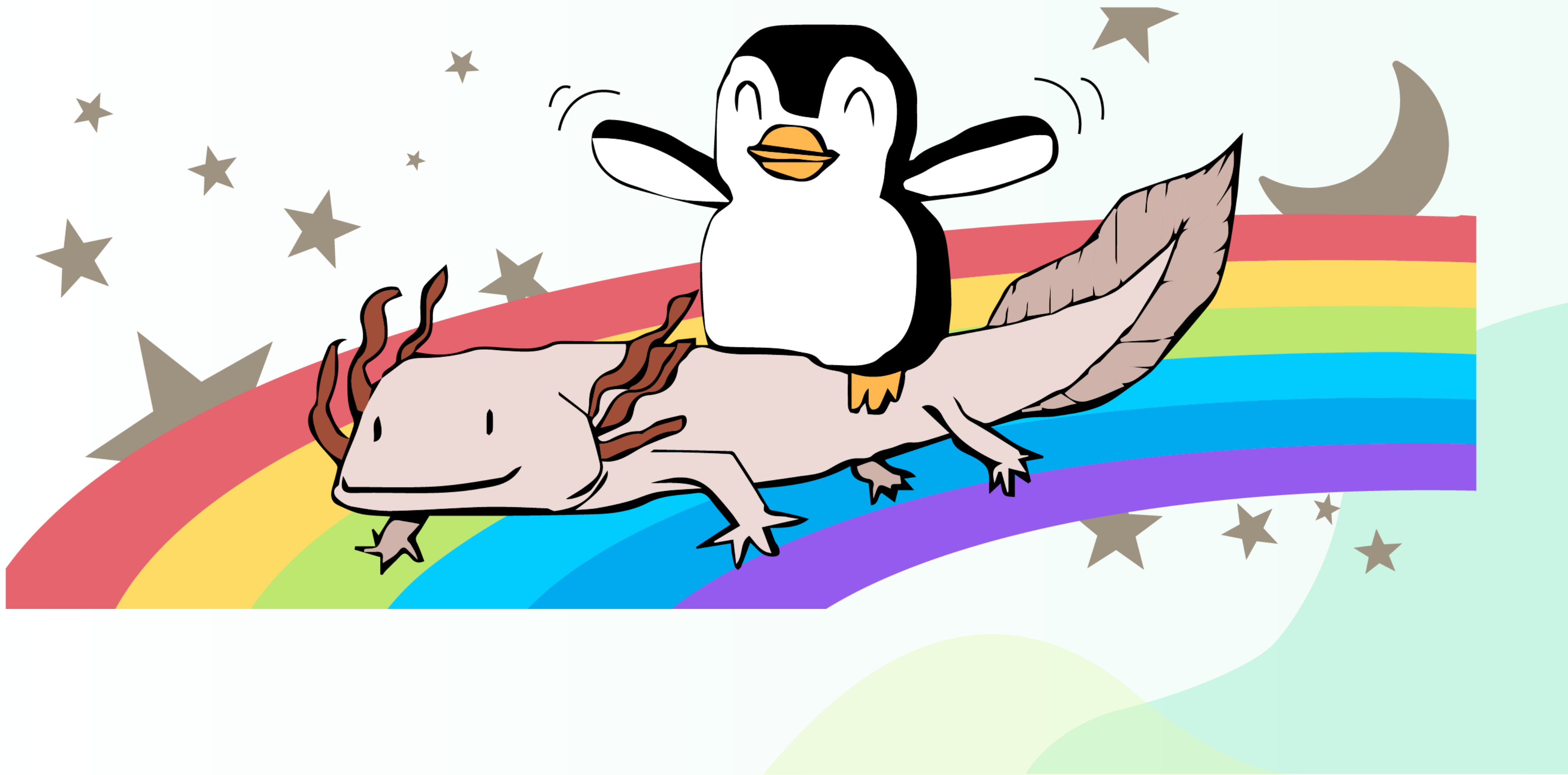
Story Time! →





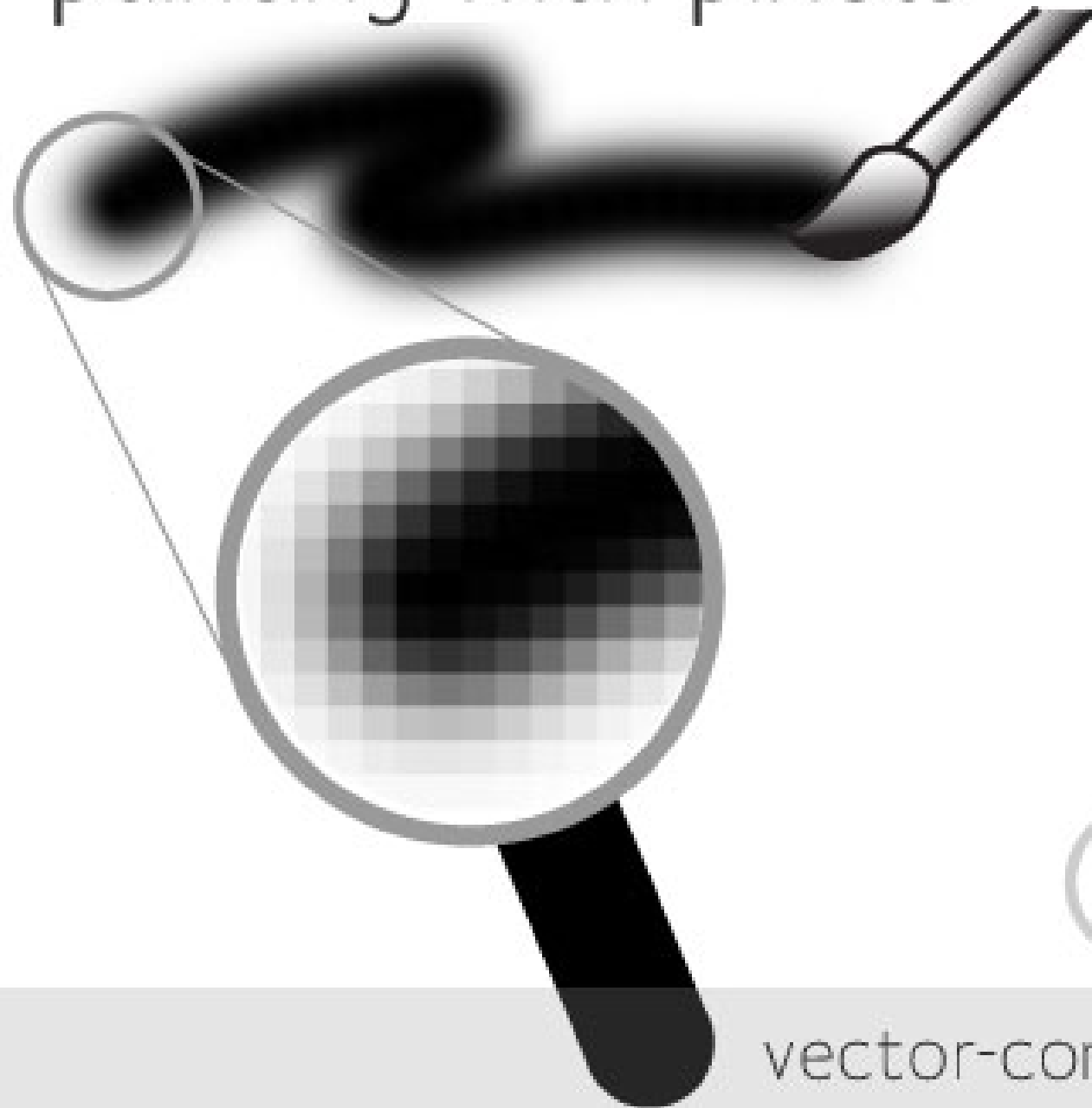




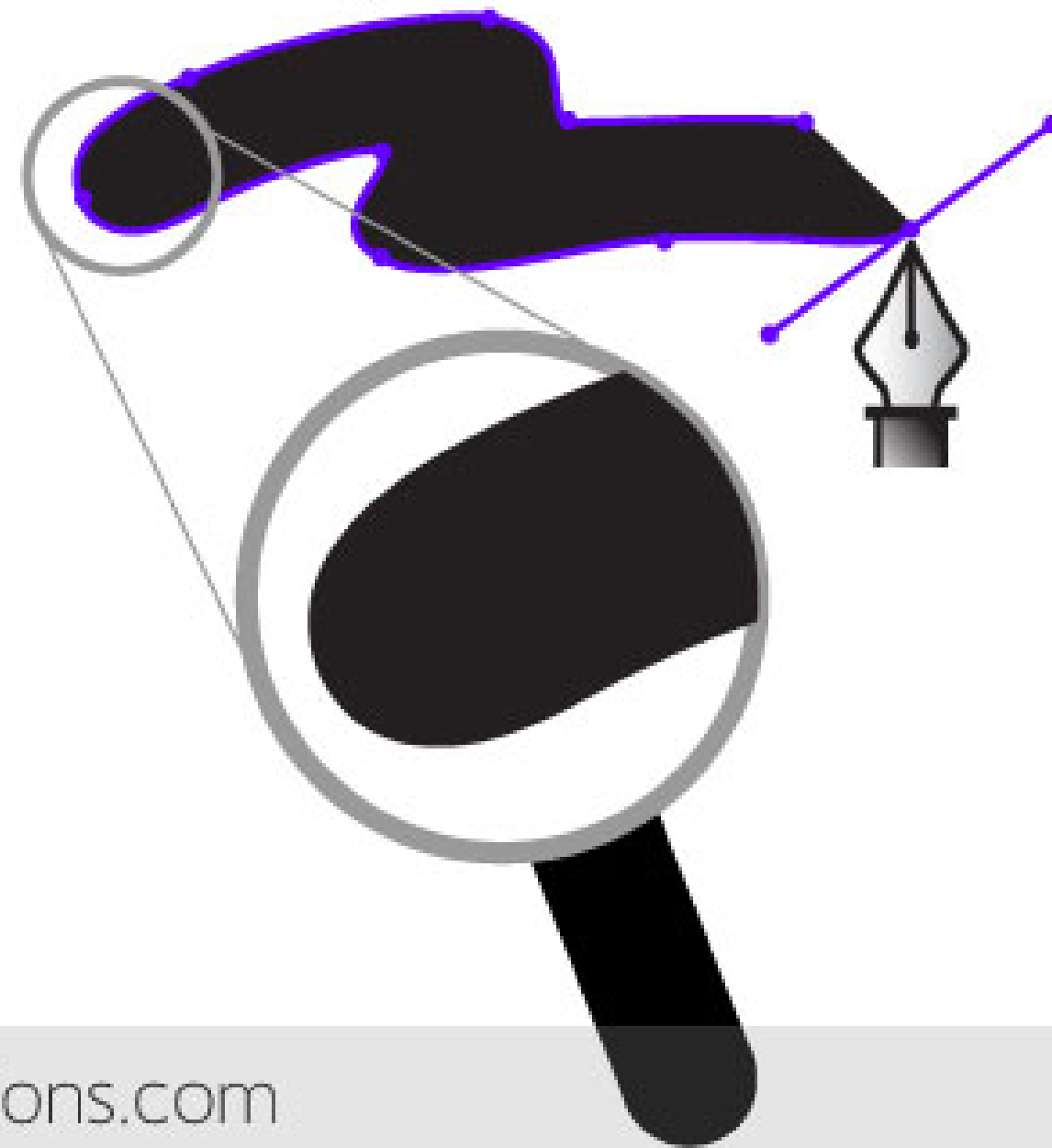


Raster vs Vector Images

painting with pixels



drawing with vectors



vector-conversions.com

Image File Types

File Extension	Description
.gif	Graphics Interchange Format
.png	Portable Network Graphic
.jpg / .jpeg	Image format by Joint Photographic Experts Group
.webp	A superior image format of .png & .jpg
.svg	Scalable Vector Graphics

Image File Types

File Extension	Color Modes	Compression	Usage
.gif	Indexed Color	Loseless	Animated images
.png	Greyscale, True Color, Alpha	Loseless (better than .GIF)	Static Line art, iconic graphics where transparency matters.
.jpg / .jpeg	True Color	Lossy	Photographs, realistic images of people, venues etc.
.webp	Depends on compression	Loseless / Lossy	A superior image format of .png & .jpg
.svg	Anything that can be specified using CSS color syntax.	NA	UI that requires to be redrawn accurately at different sizes

How to get SVG

1. Create SVG from scratch
2. Generate SVG
3. Extract from websites

Create SVG with 3 basic elements

```
<rectangle />
```

```
<circle />
```

```
<polygon />
```

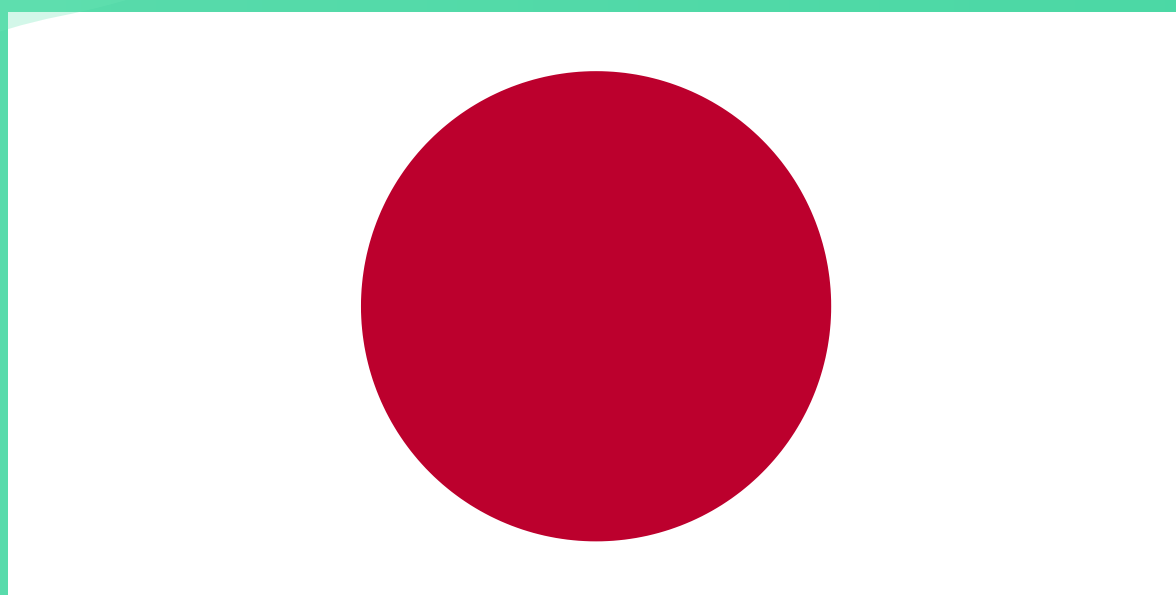
Code Time! →

Create SVG with 3 simple shapes in code





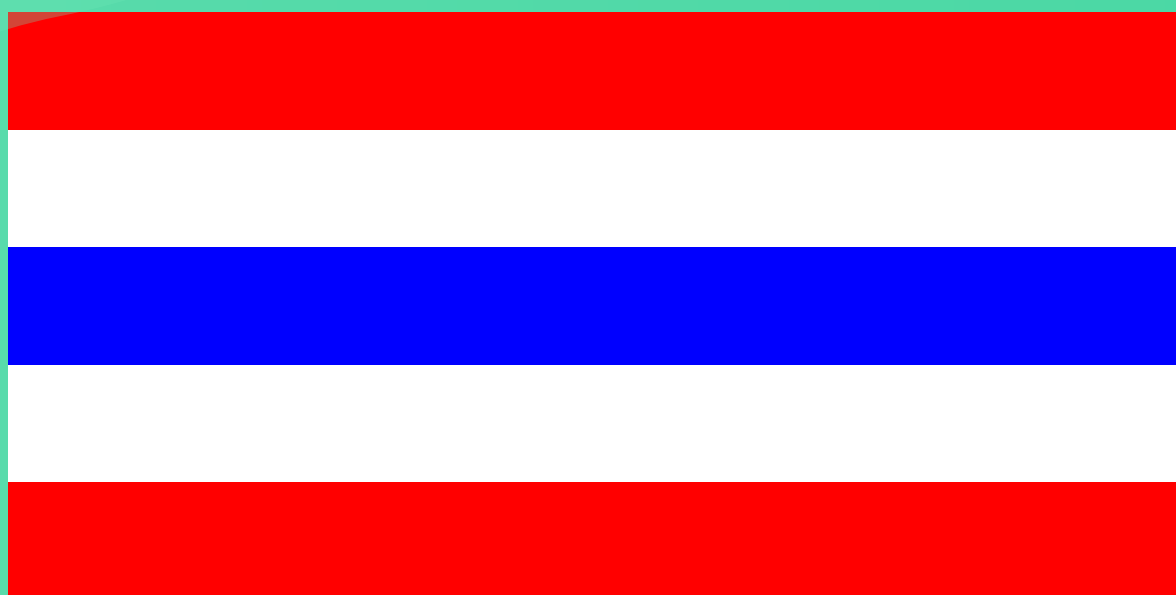
JP flag in SVG



```
1  <svg>
2    <rect width="100%" height="100%" fill="white" />
3    <circle cx="50%" cy="50%" r=60 fill="#BC002D" />
4  </svg>
```



TH flag in SVG



```
1  <svg>
2    <rect width="100%" height="20%" y="0" fill="red" />
3    <rect width="100%" height="20%" y="20%" fill="white" />
4    <rect width="100%" height="20%" y="40%" fill="blue" />
5    <rect width="100%" height="20%" y="60%" fill="white" />
6    <rect width="100%" height="20%" y="80%" fill="red" />
7  </svg>
```



VN flag in SVG



```
1  <svg>
2    <defs>
3      <polygon id="star" fill="yellow"
4        points="100,10 40,198 190,78 10,78 160,198" />
5    </defs>
6    <rect width="100%" height="100%" fill="red" />
7    <svg viewBox="78 0 600 600" x="25%" y="25%">
8      <use href="#star">
9      </use>
10   </svg>
11 </svg>
```



SG flag in SVG



```
1  <svg>
2    <rect width="100%" height="50%" fill="red" />
3    <rect width="100%" height="50%" y="50%" fill="white" />
4    <circle cx='15%' cy='25%' r='30' fill='white' />
5    <circle cx='20%' cy='25%' r='30' fill='red' />
6    <svg viewBox="600 -100 1000 1800">
7      <use href="#white-star" />
8      <use href="#white-star" x="-20%" y="10%" />
9      <use href="#white-star" x="20%" y="10%" />
10     <use href="#white-star" x="-12.5%" y="22%" />
11     <use href="#white-star" x="12.5%" y="22%" />
12   </svg>
13 </svg>
```


Create SVG with Design Tools



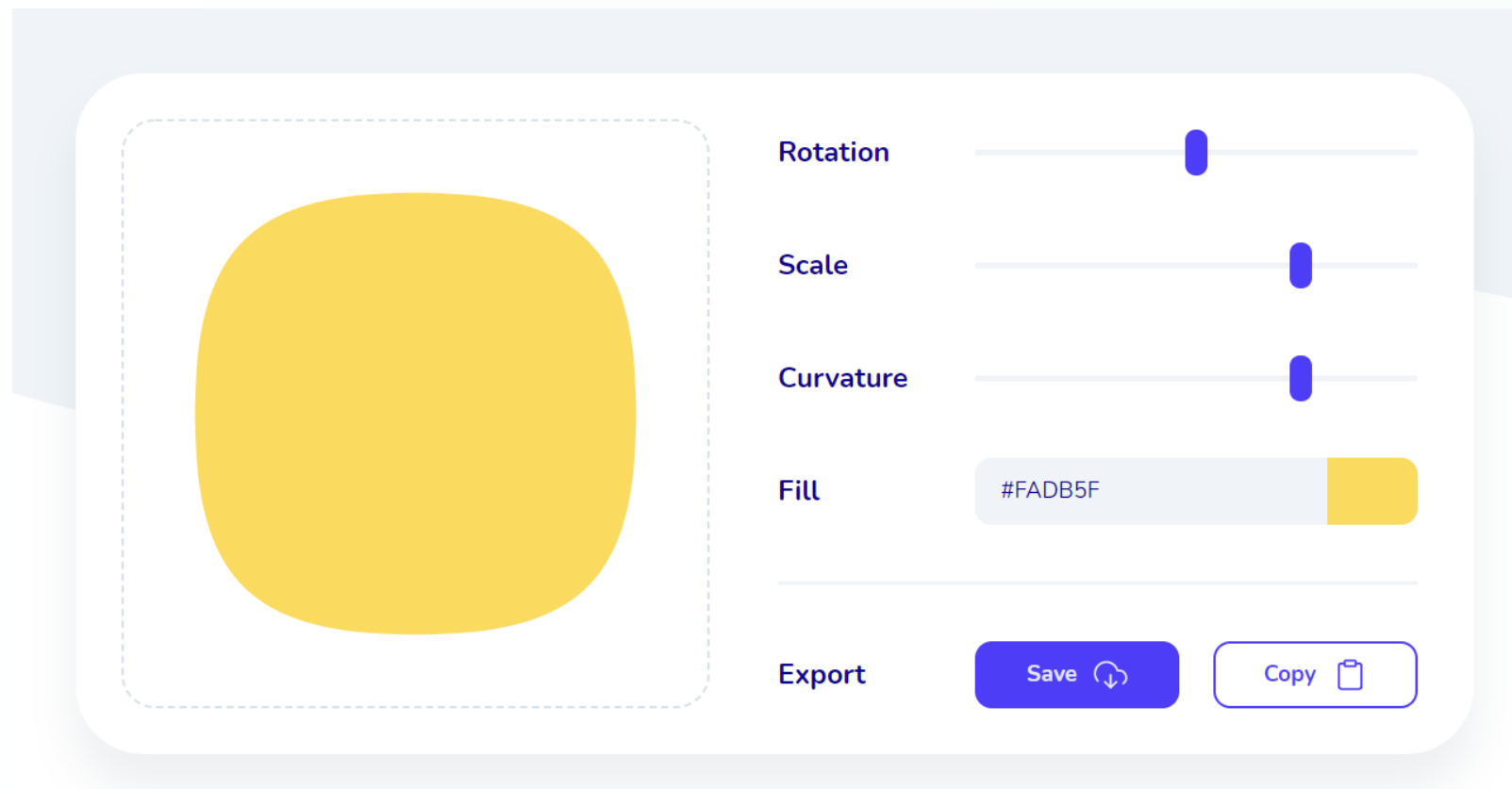
Figma Demo

Ellipse, Polygon, Paths, Bezier Curves



Generate SVG

1. Squicley for generating Squircles

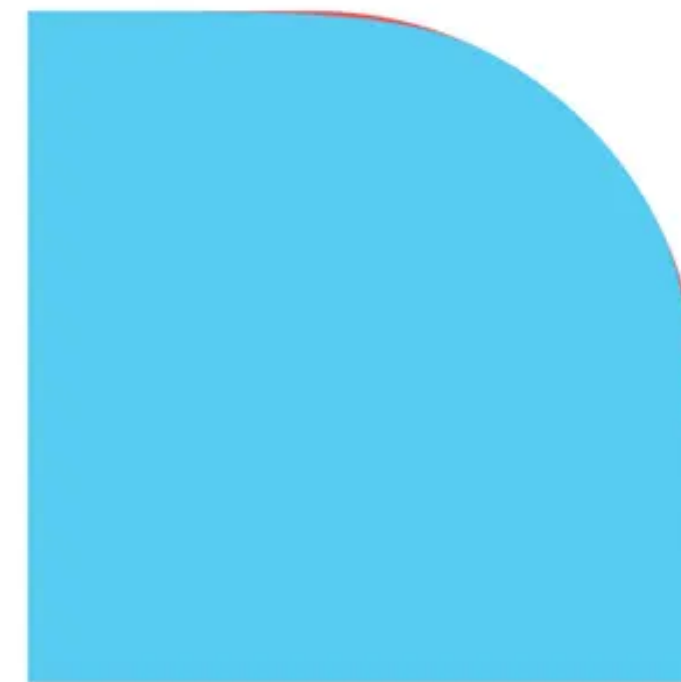


Jesslyn 
@jtannady



Replying to @jtannady

This is the rabbit hole I am currently in.



Rounded Square



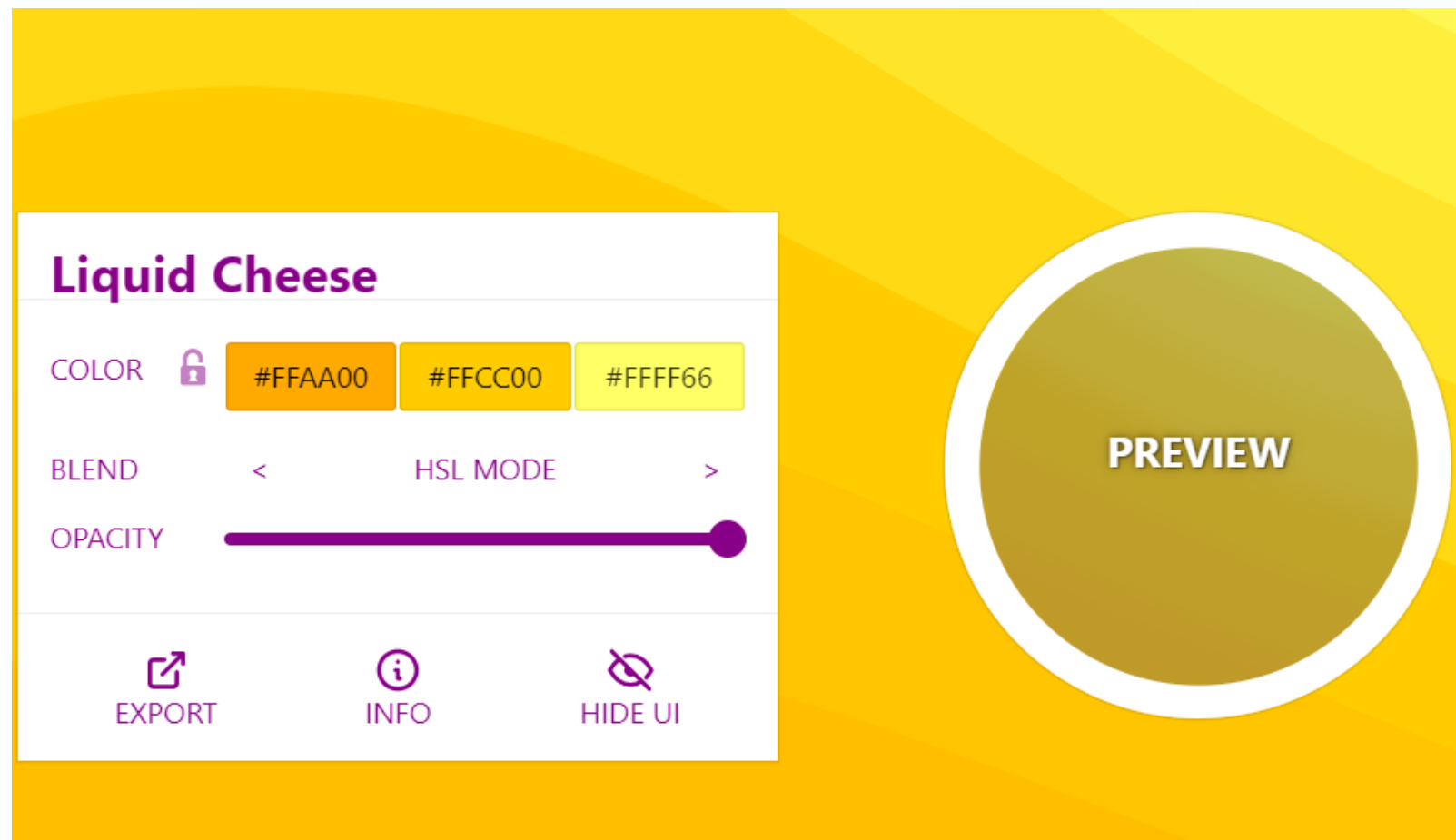
Squircle

5:56 PM · Nov 1, 2021



Generate SVG

2. SVGBackgrounds.com for generating backgrounds



Say goodbye to blurry, pixelated pattern backgrounds 🤔

SVGBackgrounds by [@MattVisiwig](#) is a great tool for both no-coders & devs to easily create backgrounds that look good ✨ no matter its size.

Here are the features at a glance 📝

[#design](#) [#css](#) [#svg](#)
[#DEVCommunity](#) [#NoCode](#)

Extract from websites

SVGOMG Demo with Hacktoberfest's SVG

More Resources

- [MDN Web Docs on SVG](#)
- [Smashing Magazine - SVG generators](#)
- [CSS Tricks - how to scale SVG](#)
- [Frontend Masters - SVG Essentials & Animations v2](#)

Thank you!

Hope you enjoyed the L&L 😊 Any questions?

Feedback form -> [___](#)