

# 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

🐙 [lyqht](#)    🐦 [estee\\_tey](#)

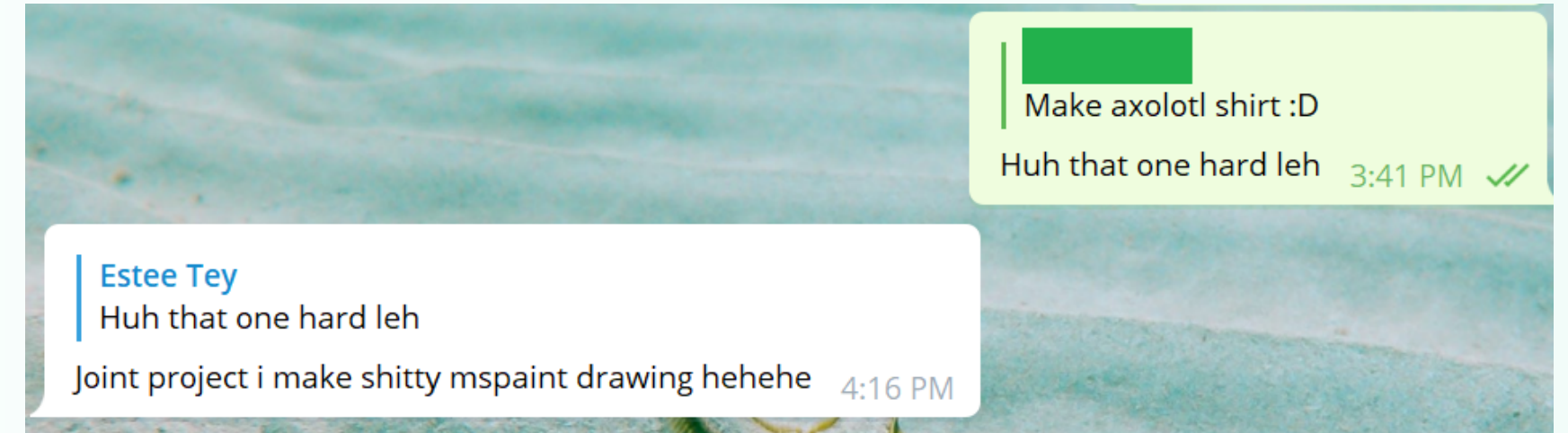
# Table of Contents

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

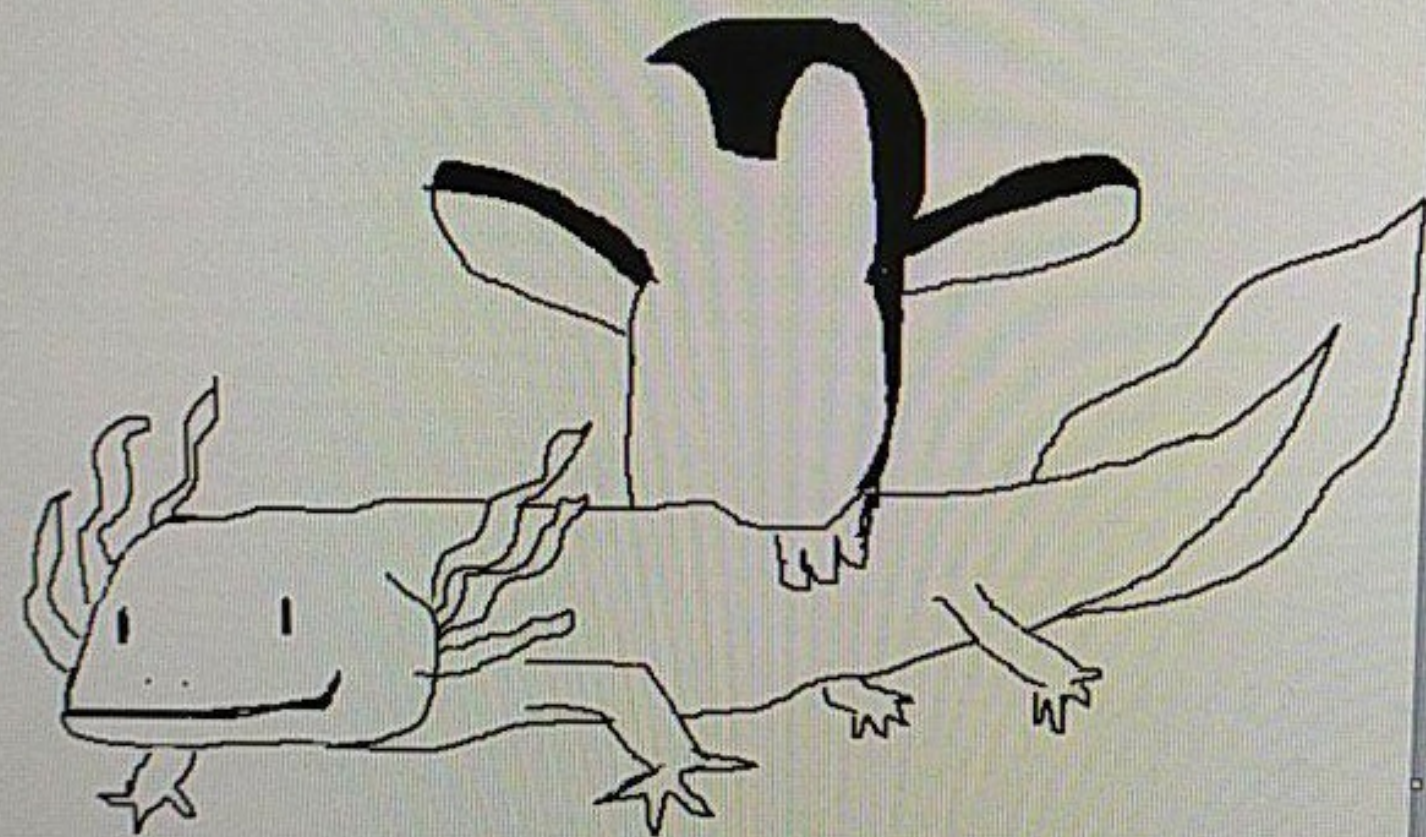
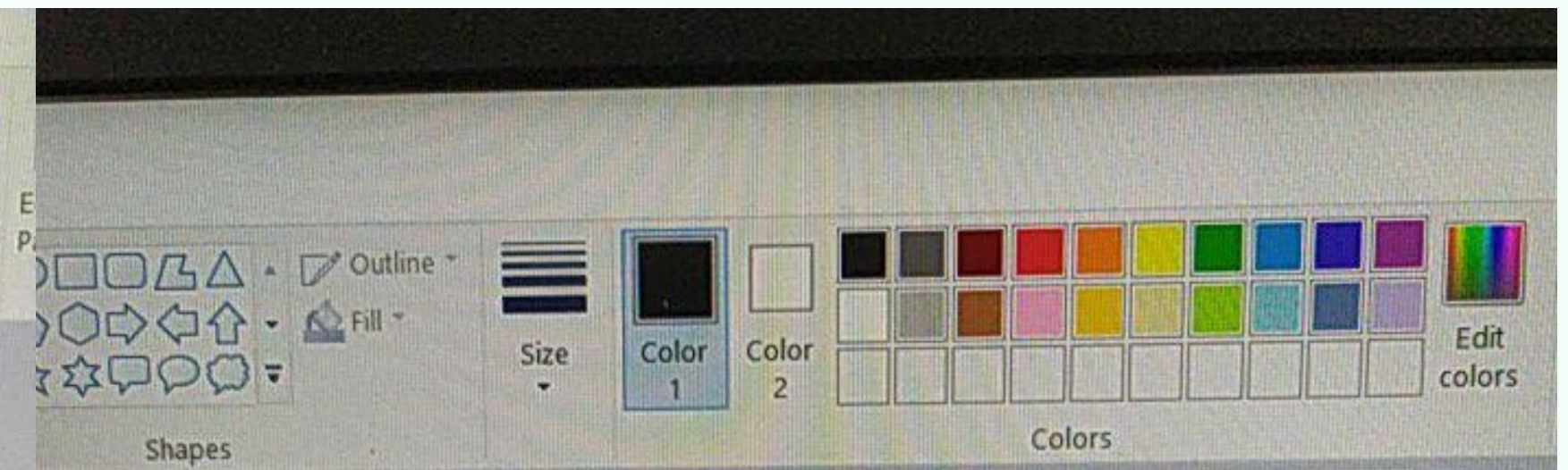
What is SVG?

# Images

Story Time! →



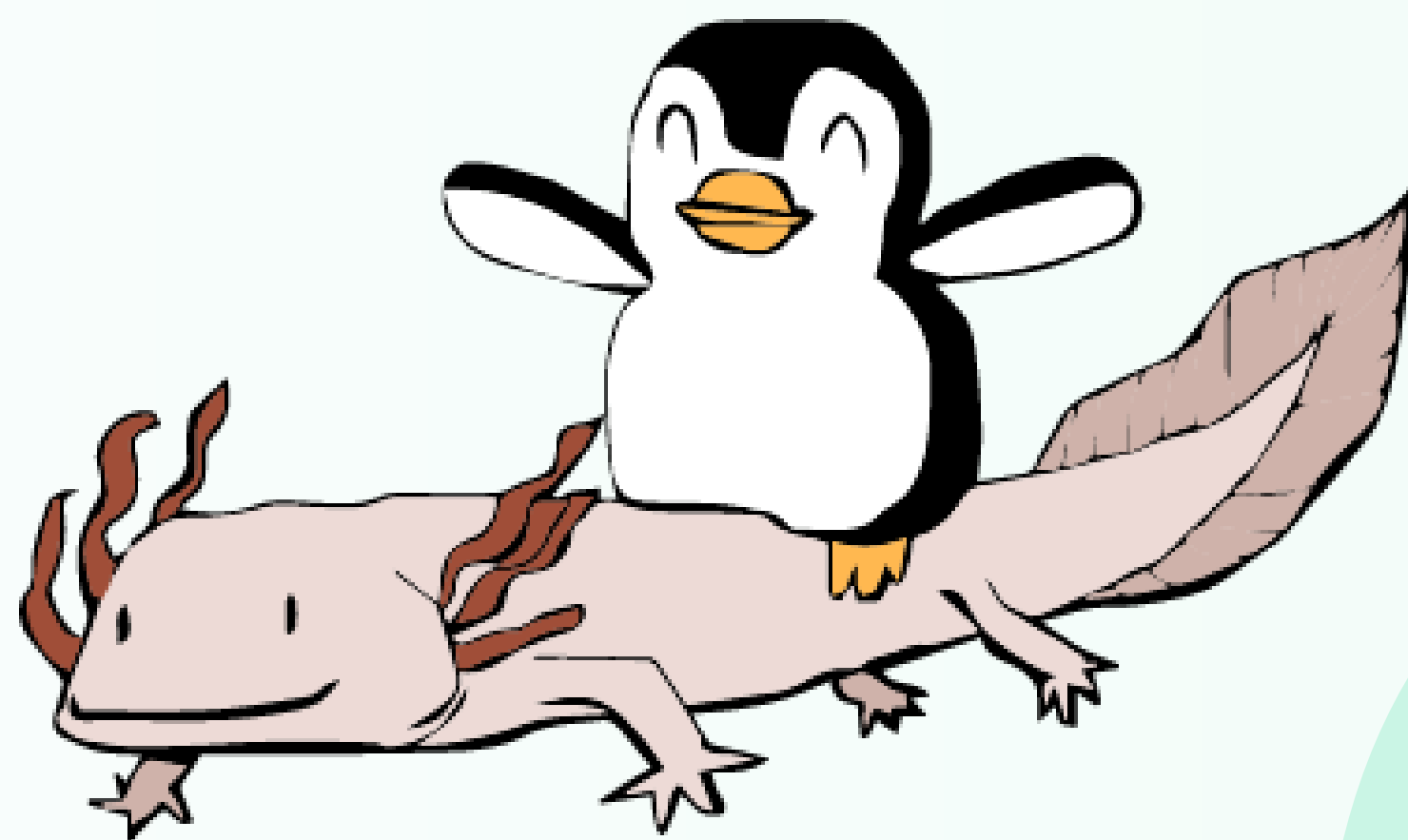
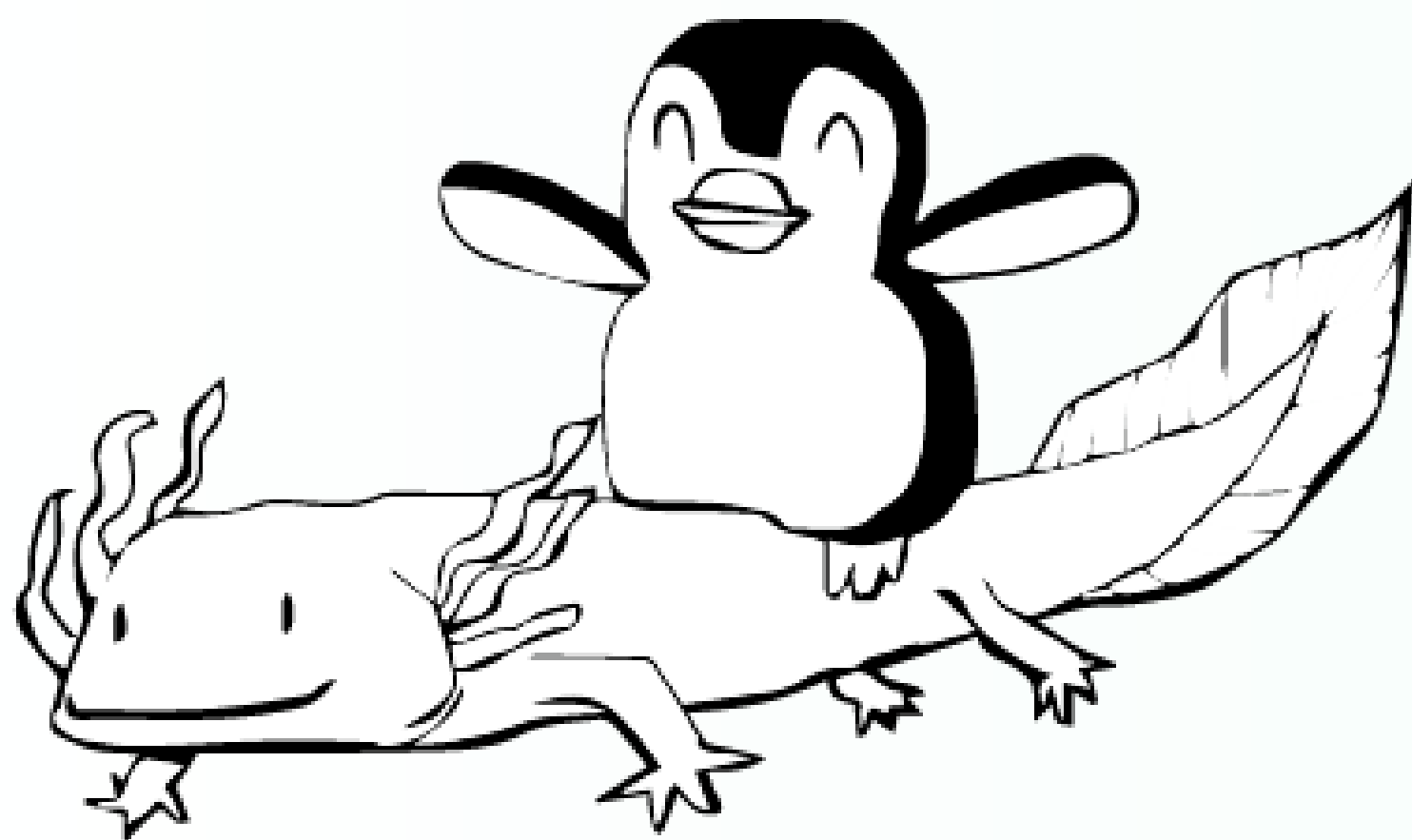


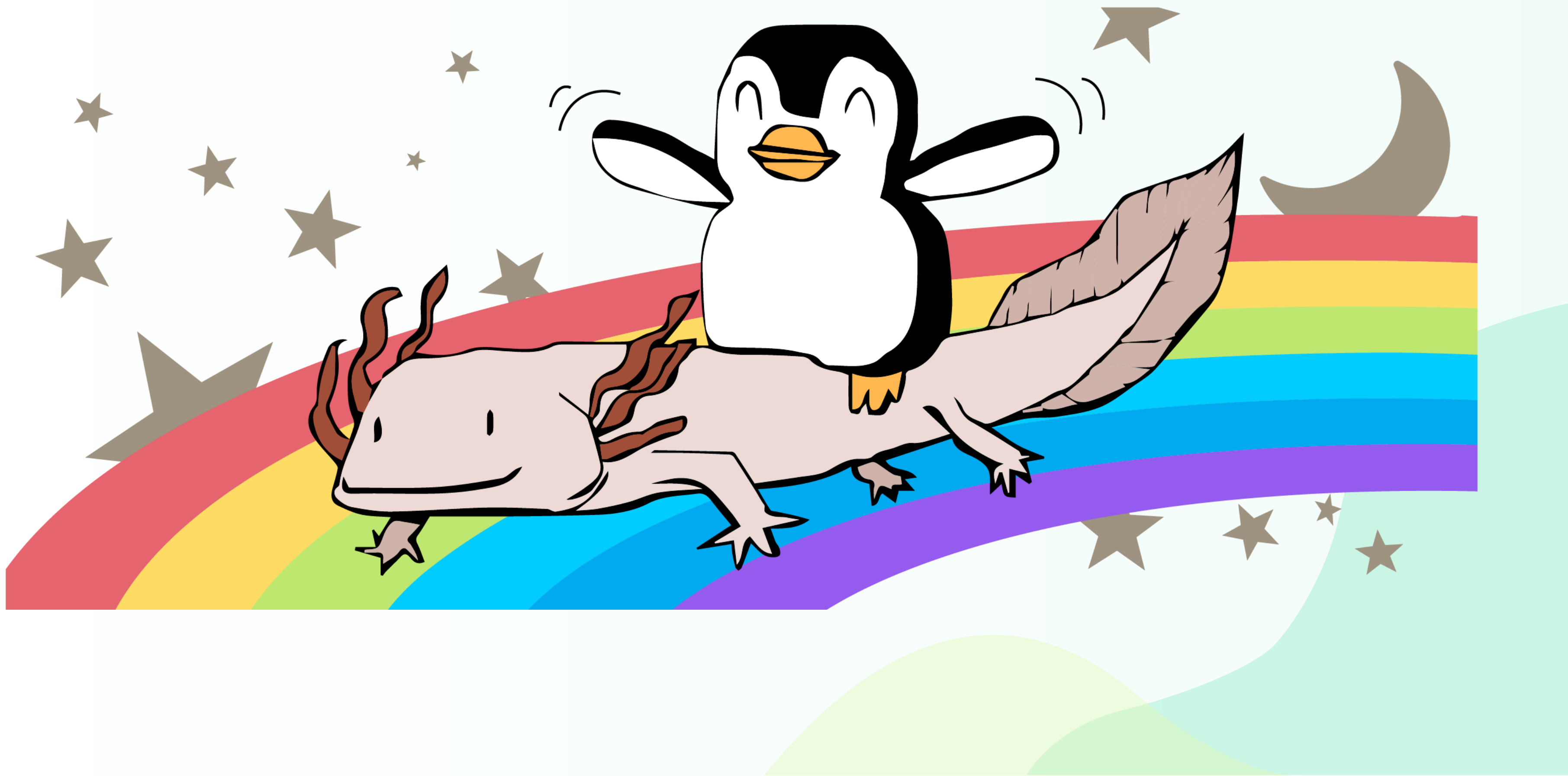






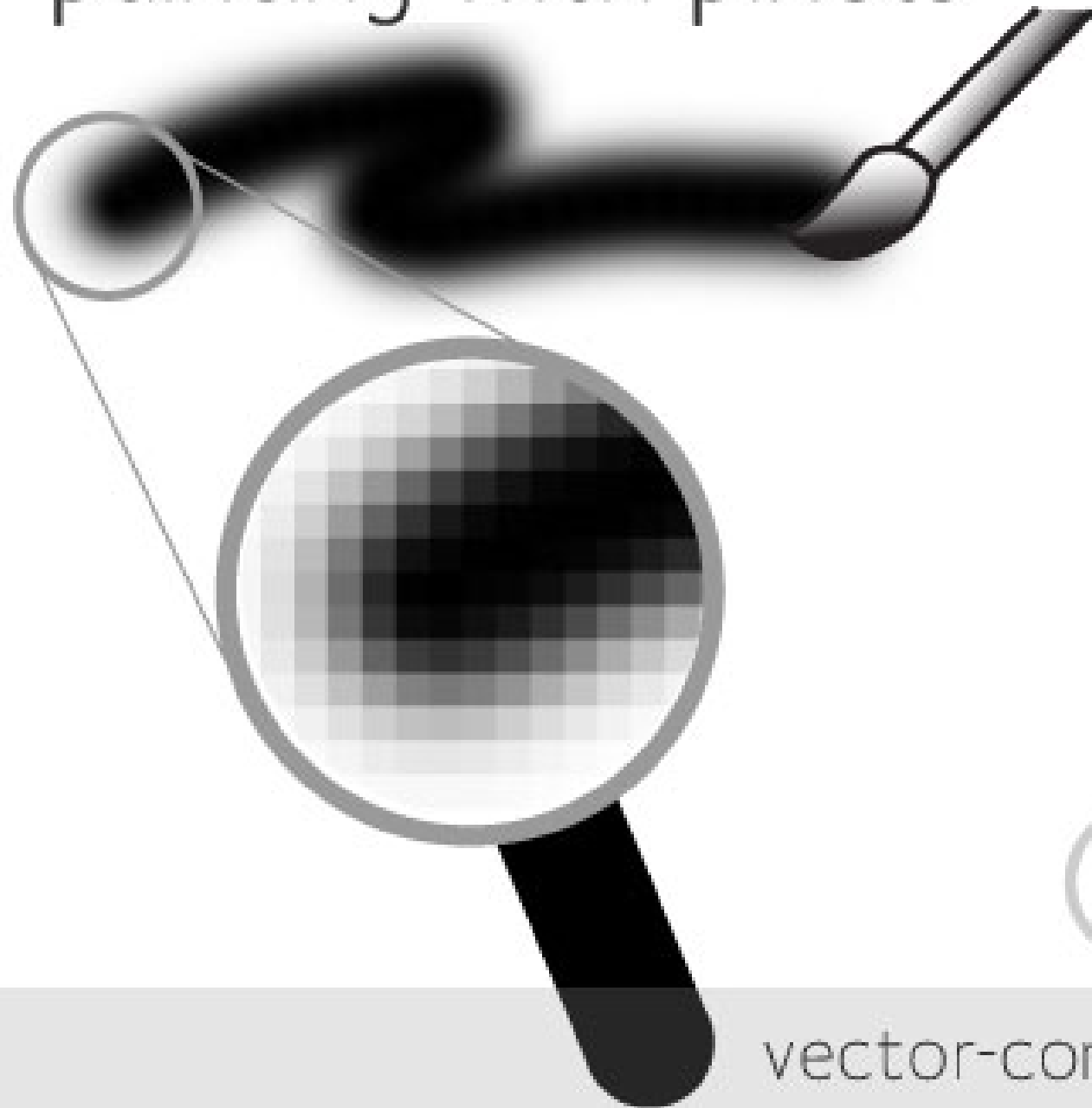




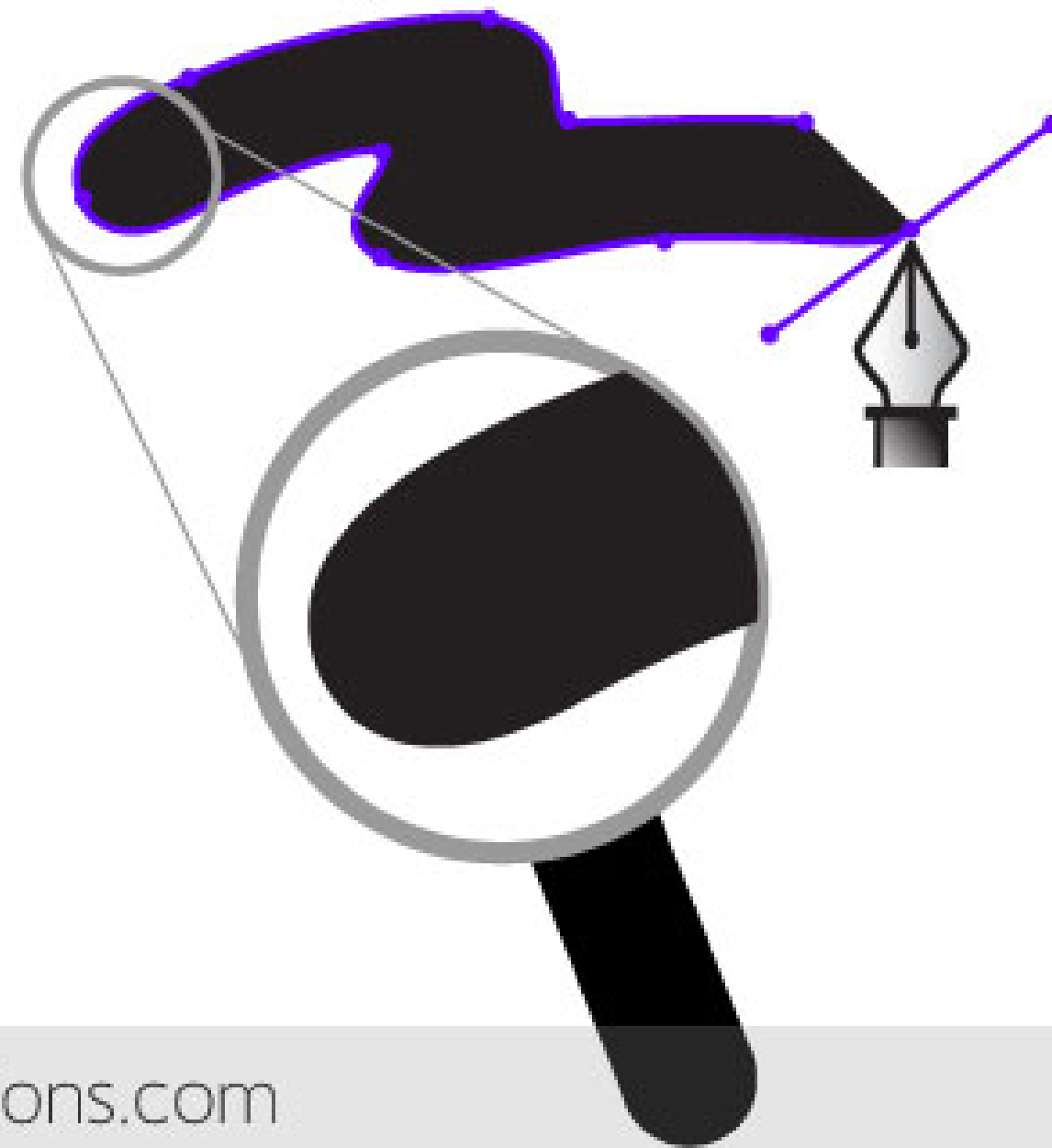


# Raster vs Vector Images

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! →

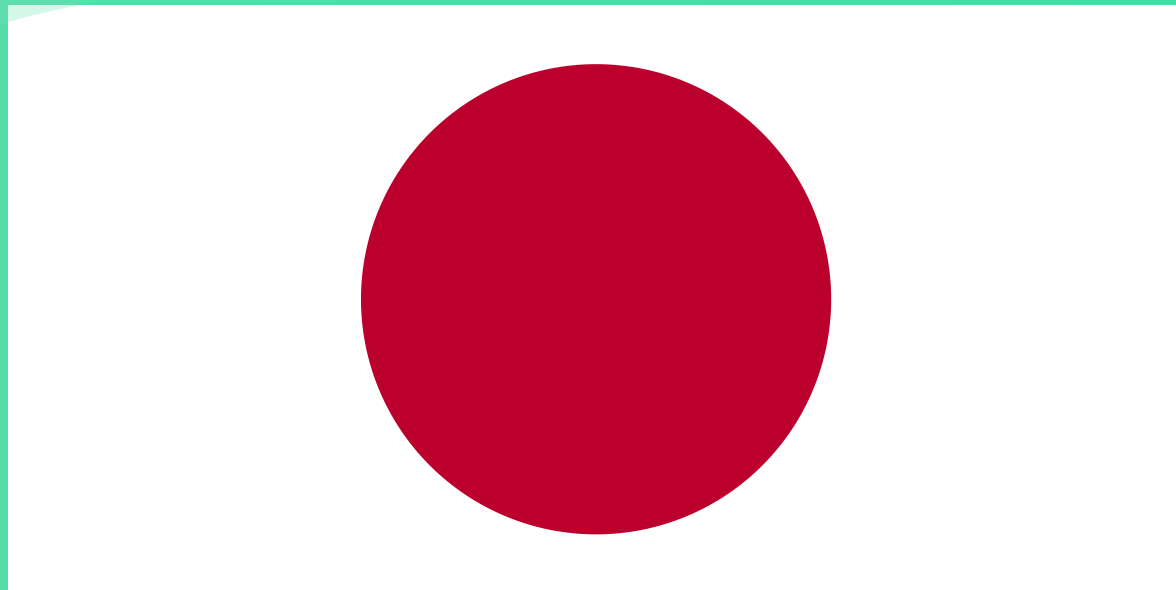
# Create SVG with 3 simple shapes in code







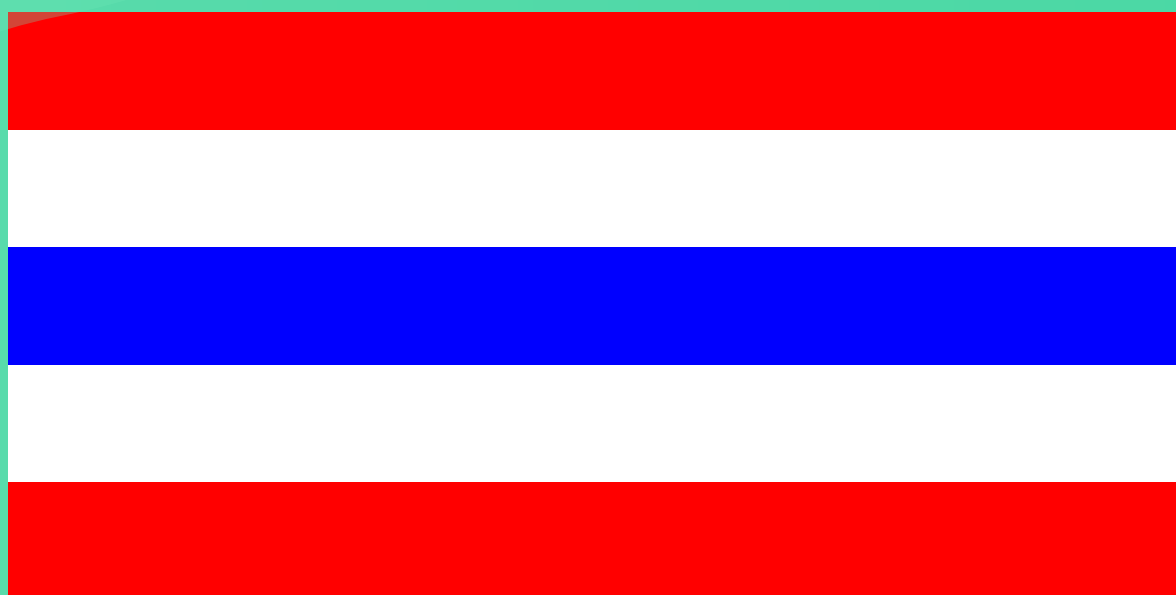
# JP flag in SVG



```
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>
```



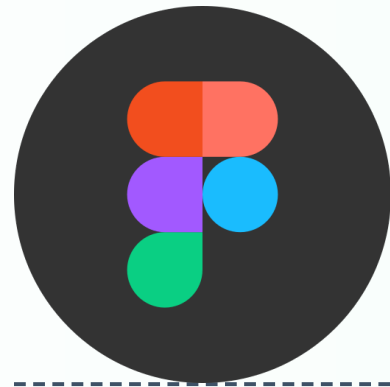
# SG flag in SVG



```
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>
```

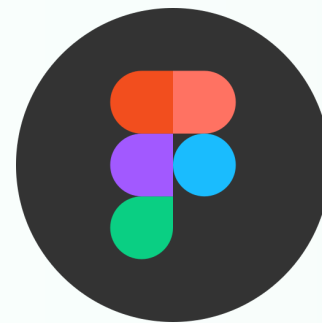


# Create SVG with Design Tools



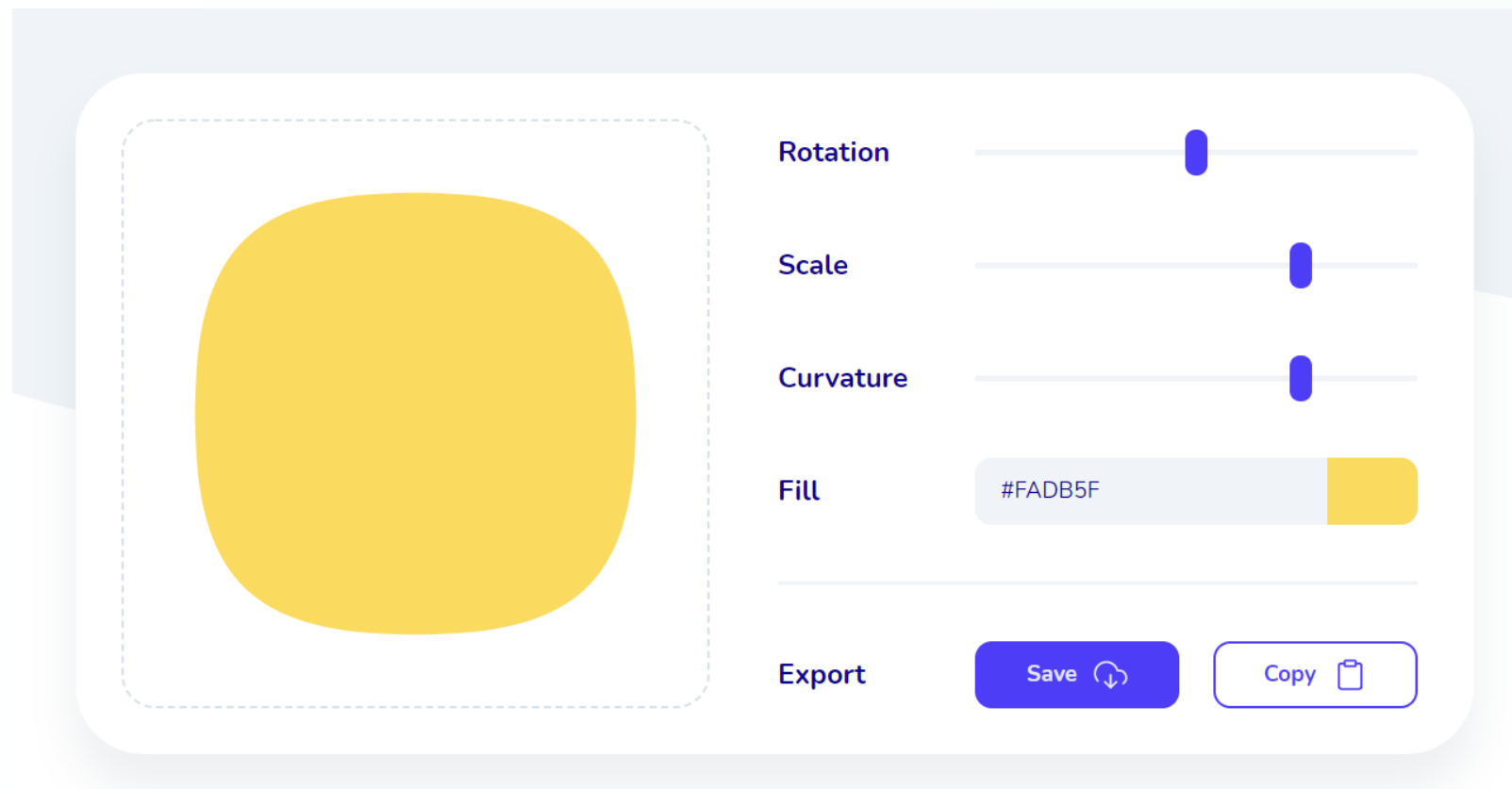
# Figma Demo

Ellipse, Polygon, Paths, Bezier Curves



# Generate SVG

## 1. Squicley for generating Squircles

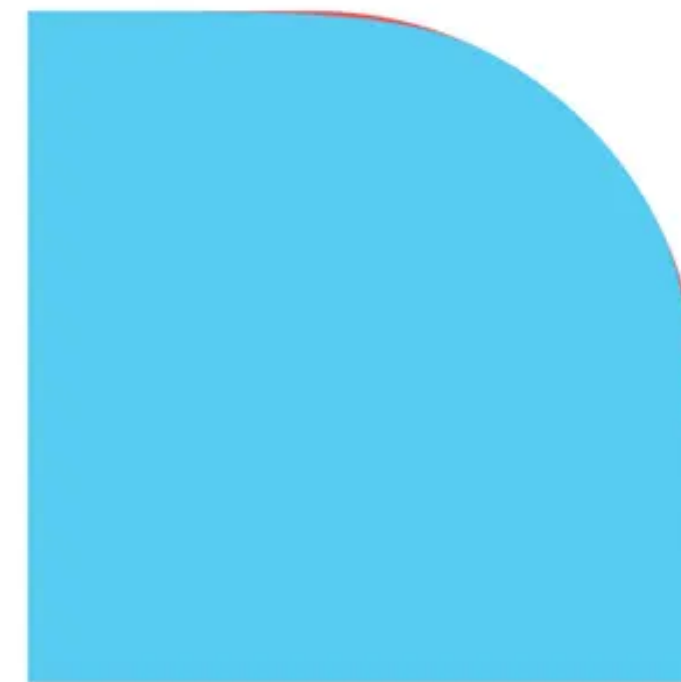


**Jesslyn**   
@jtannady



Replying to @jtannady

This is the rabbit hole I am currently in.



Rounded Square



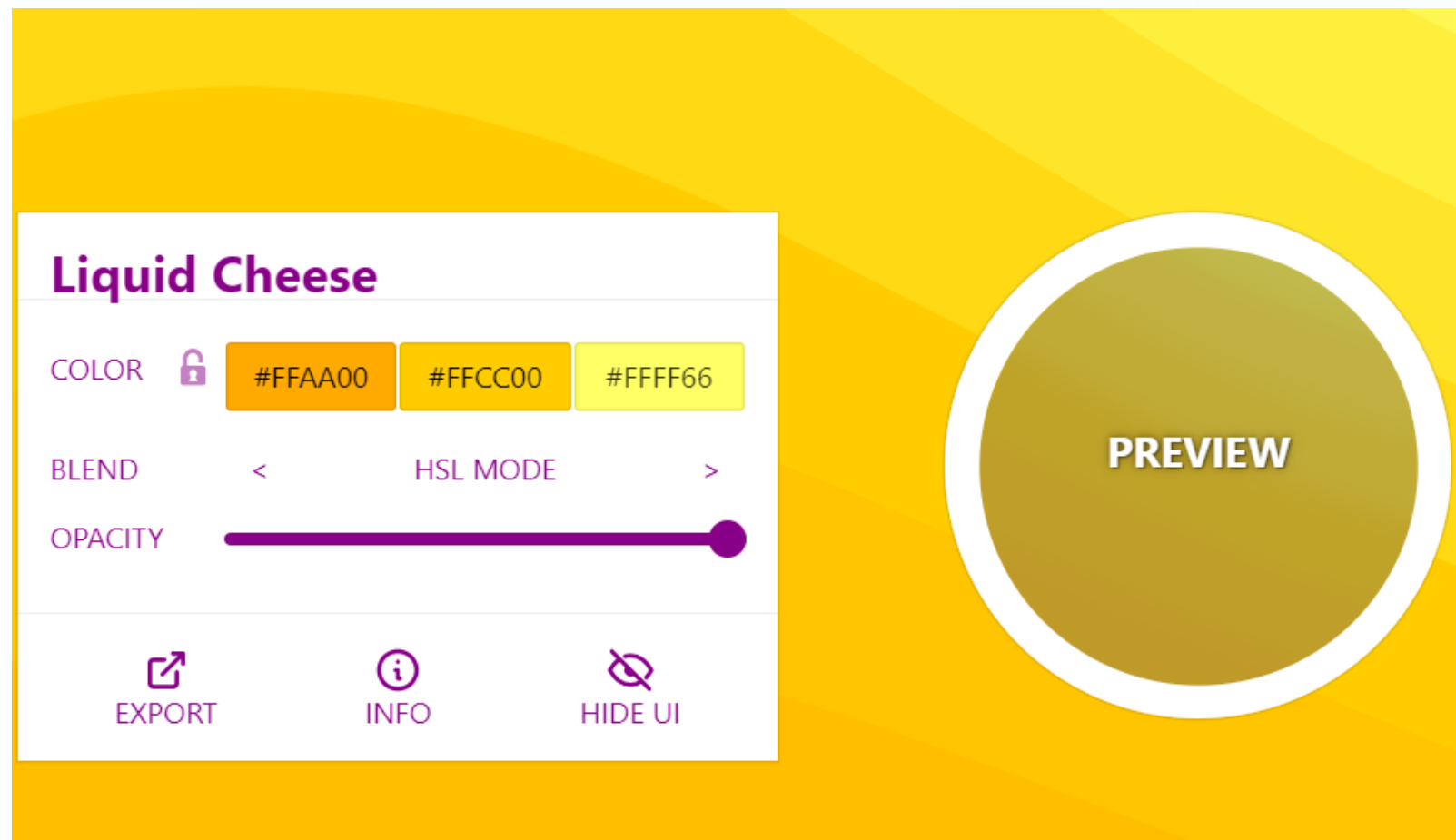
Squircle

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 -> [\\_\\_\\_](#)

