For web developers, especially frontend web developers SVG (Scalable Vector Graphics) is a God-sent blessing.

Unlike png, jpeg, or webp you can manipulate them however you like. You can make really cool effects by animating and making them alive.

Now where to use SVG? You can use SVG for logos and other illustrations on websites/web apps. When you prepare the SVG do remove any extra code such as metadata and tags. This will reduce the file size and help load the page faster.

We can do SVG animations by time-based modification. We can use animation effects such as fade-in, fade-out, and elements that can shrink and get bigger. Of course, color changes as well.

The first thing you should do is to name the tags in svg properly You should always use 'class' and not 'id'. This way you will minimize the errors.

There are various types of animations. One type is where you get the feeling that the SVG is moving and completing itself.
For this, you have to first measure its total length.
To measure its total length you can use the JavaScript function.

There are various ways you can animate the svg but the most interactive way would be to use JavaScript. Writing a JavaScript function to change the composition altogether. That is you can make svg scatter like a sand castle. For this, you will have to trace all the paths, and for that there as specific tools designed.

Where you can make the SVG?
Below I have listed some websites where you can make and find the SVGs.

CorelDraw vector
Vecteezy
Vecta
Vectr
Snap.svg
SVG Morpheus
Quasi-svg
Chartist.js

I want to mention Figma here.
You can build the design in Figma and export it as png, jpeg, and of course SVG. Figma also gives you one option to directly copy-paste the CSS.
Do check out Figma, I am sure you will like it.

SVGs are dominating when it comes to graphic use in websites.

Just plane images are boring or I should say are getting boring.

Animated SVG brings life to the website. It brings interactivity and as a result, increases user time on the website.

Hence it becomes really important for any frontend web developer to learn how SVGs work and better would be how to animate SVGs.