

Sketch + Animated Vector Drawable =

How to create beautiful AnimatedVectorDrawable with Sketch ?



UX/UI is one of the things I really love through my work. Actually, when you think about it, your users really don't care about your code and how you've designed it: they only judge what they can see.

In this post, I will show you how to create an **Animated Vector Drawable** with two different tools, <u>Sketch</u> to prepare the assets and Shape Shifter to animate them.

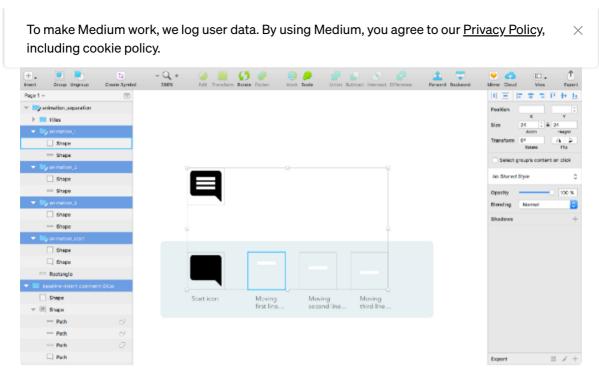
First of all, you will have to choose an icon you want to animate. For this post, I decided to download this icon from <u>Material.io</u> in SVG format:



2. Designing the animation

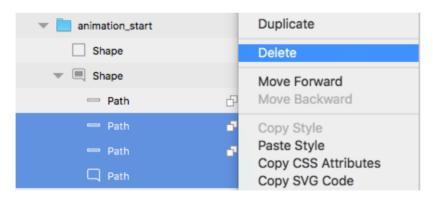
Next, you will have to **think about** the animation you want for your icon. Be creative! In this case, I thought that it will be a good idea to **move the three lines**, *one after the other*, almost as if the user started typing some comment.

So, now we've got the idea, we need to **separate** each element **we would like to animate** on the final animation with Sketch, like this :



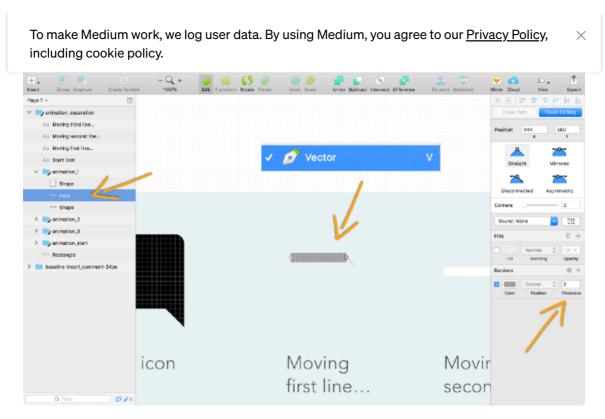
Separation of each item we want to animate

Remember, we only want **to move the three lines**. So, I **copied** and **pasted** the main icon **4 times** (and NEVER modified its size properties) and only kept the shape I wanted.



For each part of the final animation, I've deleted what I don't needed.

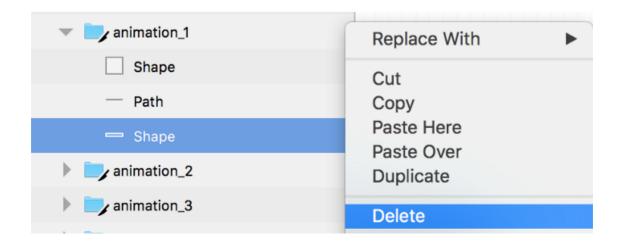
Next, **the tricky part**: you need to *manually reproduce* each line with the "**Vector Tool**" on Sketch. The main goal is to convert current **shapes** (hard to animate) into **paths**:



Reproducing each line with a Path

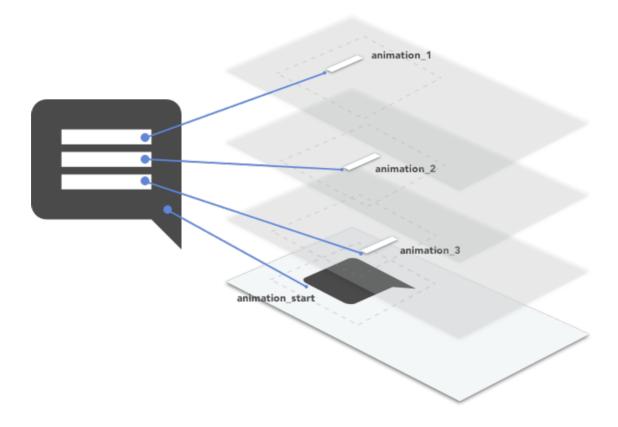
The real difficulty here is trying to **superimpose** the path you're drawing above the shape... Oh, and by default, path thickness is set to 1 : **set it to 2** to perfect fit the below line shape \bigcirc

After that, **delete** for all animation groups the old shape to only keep the path.

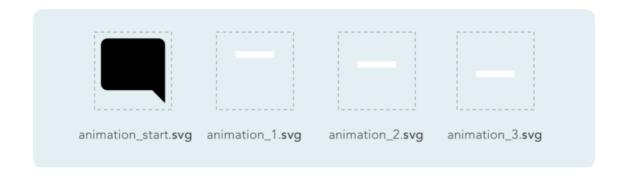


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cartoonist who wants to animate its cartoon character using **superimposed transparent** papers... That what we try to achieve here.



Finally, **export** those 4 SVG images to your desktop, like this:

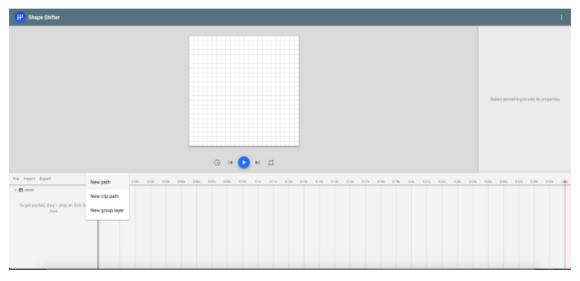


You will soon understand why we've prepared all this stuff... 🧐

3. Preparing the icons

In order to animate our icon, we will use <u>Shape Shifter</u> created by the so talented Alex Lockwood. This tool saves us a lot of time!

First of all, go to Shape Shifter website and create a **new path**:



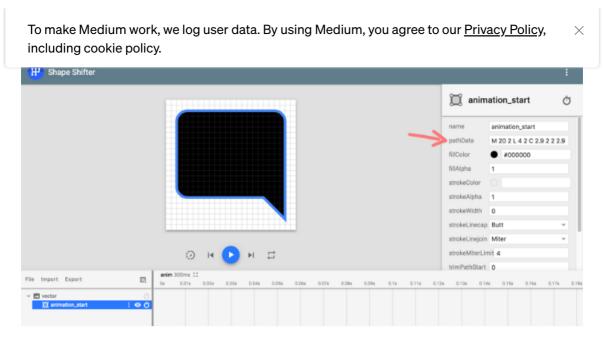
Creating a new path

Then, open $animation_start.svg$ with any code editor, and copy the d= value :



Raw SVG code from animation_start.svg

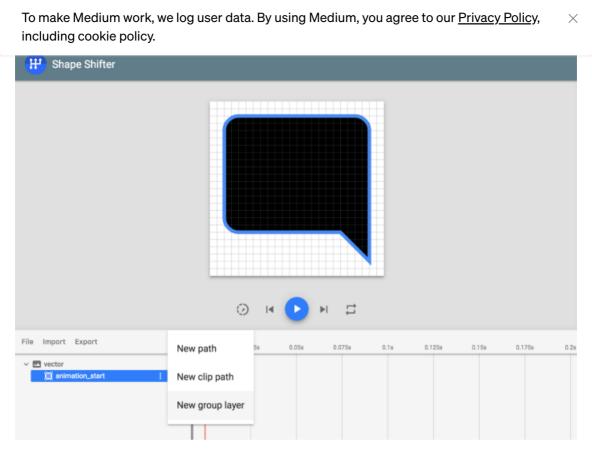
Next, **past** it to the previously created path in the "pathData" field. Fill the "name" and "fillColor" fields too.



Copy SVG properties to path fields

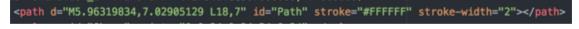
Great! Your first animation image (animation_start.svg) is correctly shown. Now, let's add the other images (animation_1.svg, animation_2.svg & animation_3.svg) to create the full animation.

Add a new "group layer":

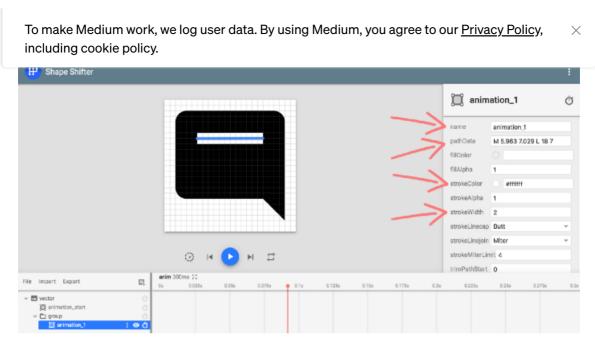


Add a "New Group Layer"

Finally, add inside it **three** new **paths** containing our previous SVG files (*animation_1.svg*, etc...) data.

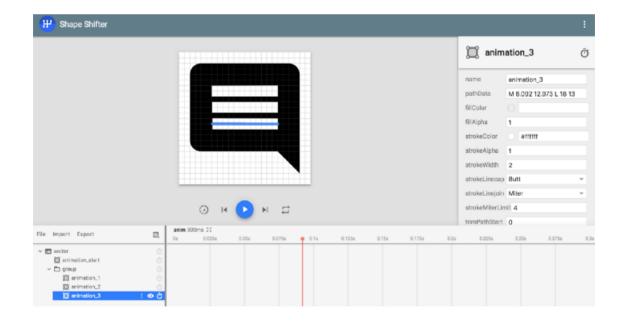


SVG data for animation_1.svg file



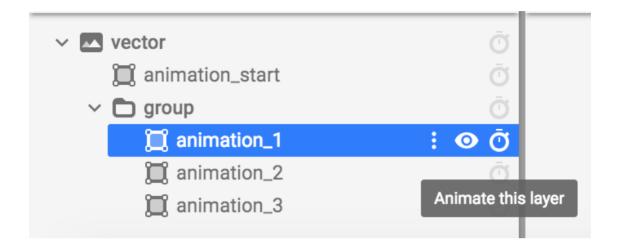
New path from SVG data (animation_1.svg)

Repeat the operation for the **second** (animation_2.svg) & **third** (animation_3.svg) line. In the end, your screen must look like this:

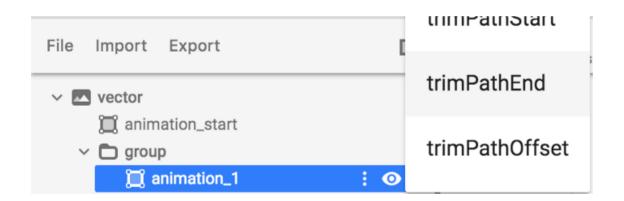


4. Animating the icons

Now, let's set up the fun part: the animations! Remember, we want to **move the three lines**, *one after the other*.



Next, select "trimPathEnd" to animate the "progression" of the drawn path :



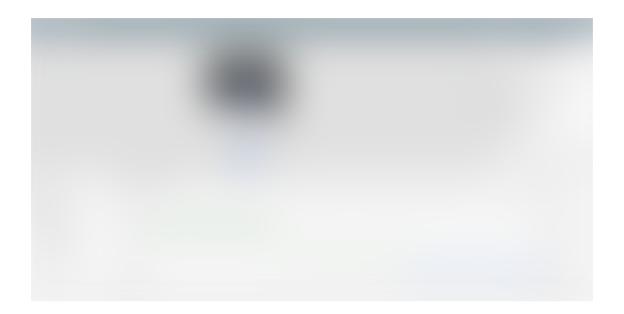
Configure the animation settings as below:

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trimPathEnd for 'animation_1'	
startTime	0
endTime	100
interpolator	Fast out, slow in
fromValue	0
toValue	1

And finally, set the initial value of property "**trimPathEnd**" for **animation_1** to 0, forcing the path to be hidden when the animation starts :

animation_1 ō	
name	animation_1
pathData	M 5.963 7.029 L 18 7
fillColor	
fillAlpha	1
strokeColor	#ffffff
strokeAlpha	1
strokeWidth	2
strokeLinecap	Butt
strokeLinejoin	Miter
strokeMiterLimit 4	
trimPathStart	0
trimPathEnd	0

Your screen should look like this:



Then, you just have to run the animation by clicking on the "Play" icon...

• <u>An Introduction to Icon Animation Techniques</u> by Alex Lockwood

• <u>Creating AnimatedVectorDrawables with Shape Shifter</u> by James Williams

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