

#### **Image Animations**

#### Upon completion of this module, a student will be able to

- use animated gifs in apps
- create an animated drawable object
- work with simple vectors in inkscape
- create animated vector drawables
- use animated vector drawables in apps



# Assignment

- Task
  - For this project, you'll be creating a 3 page app. This can be done with 3 separate activities or a 3 tabbed window with fragments. In each tab, you'll display a different animated image.
- Repo
  - https://github.com/LambdaSchool/AndroidAnimatedImages
- Submission
  - Create a pull request on the main project repo and your PM will review it





use animated gifs in apps

### **Animated Gifs**

- Not supported natively before API 28 (Pie)
- AnimatedImageDrawable







create an animated drawable object

### **Animation Drawable**

```
<?xml version="1.0" encoding="utf-8"?>
<animation-list xmlns:android="http://schemas.android.com/apk/res/android"
    android:oneshot="false">
        <item android:drawable="@drawable/wolverine000" android:duration="35" />
        ...
        <item android:drawable="@drawable/wolverine031" android:duration="35" />
</animation-list>
```

- AnimationDrawable
- Series of individual frames

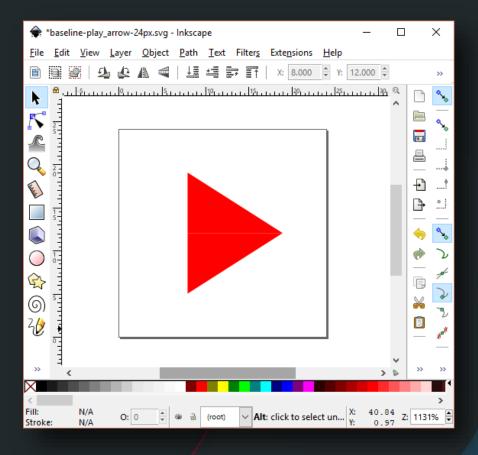




work with simple vectors in inkscape

## Inkscape

- https://romannurik.github.io/AndroidA ssetStudio/index.html
- Open source Vector Editing Tool





# Path Manipulation

- Break Apart
  - Separate bodies grouped together
  - Path -> Break Apart

- Path Intersection
  - Create a new path which covered desired portion
  - Path -> Intersection

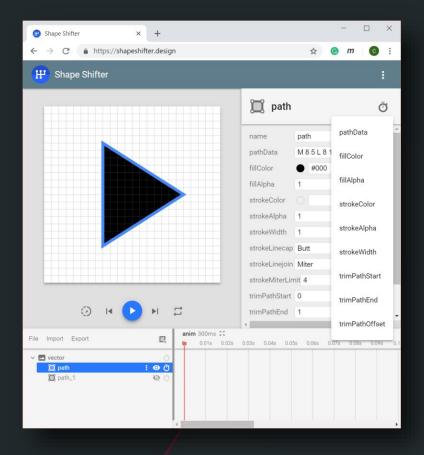




create animated vector drawables

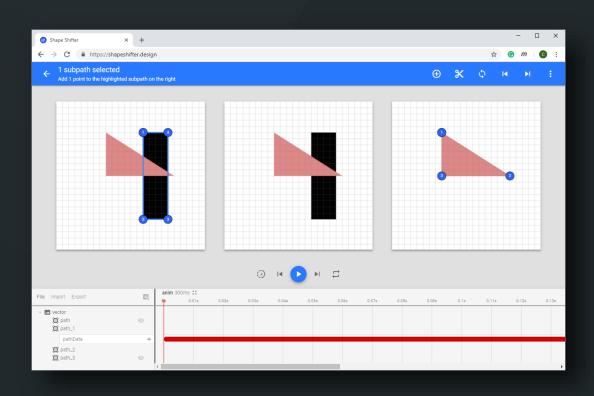
# Shape Shifter

- Use Existing Vector Images
- Edit and Animate
- Download as Animated Vector Drawable





### Path Transform



- Transform PathData
- Past 2<sup>nd</sup> shape path into end path
- Track which points you want to go where and update them manually





use animated vector drawables in apps

### In Code

- Assign as normal drawable
- Animatable

