What is Animation?



 Animation is the process of creating motion and shape change

 These are used when the UI changes state, such as when new content loads.

 Animations also add a polished look to your app which gives it a higher quality look and feel.

Types of Animations



Scale Animation
 used to make a smaller or larger view either
 on x axis or y axis.

Rotate Animation
 used to rotate a view around a pivot point but
 a certain number of degrees.

Types of Animations



Translate Animation
 used to move a view—along the x or y axis.

Alpha Animation
 Transparency of a view can be changed.



XML Animation Attributes



Attribute	Description
android:duration="1000"	The duration in which animation is completed.
android:fillAfter="true"	defines whether the view should be visible or not at end of the animation.

XML Animation Attributes



Attribute	Return Type
android:interpolator= "@android:anim/ linear_interpolator"	refers to the rate of change in animation.
android:startOffset="2000"	refers to the waiting time before an animation start.

XML Animation Attributes



Attribute	Return Type
android:repeatMode="restart"	Mode of Repetition Two types of Modes: Restart(default) and Reverse
android:repeatCount="infinite"	defines the number of repetitions on animation.

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Animation Example



```
move = AnimationUtils.LoadAnimation(context: this, R.an txtAnim.startAnimation(move);
```



Custom

Animation

What is Lottie?



 A Lottie is a JSON-based animation file format that enables designers to ship animations on any platform as easily as shipping static assets.

 To use Lottie animations in our project we need to integrate Lottie Project (Library).

What is Library?



 It is structurally the same as an Android app module. It can include everything needed to build an app.

 Instead of compiling into an APK, it compiles into an Android Archive (AAR) file that is used as a dependency for an Android app module.

Lottie Animation View Example



