



Free Learning Platform For Better Future





[Home](#)
[Python](#)
[Java](#)
[JavaScript](#)
[HTML](#)
[SQL](#)
[PHP](#)

Android Tutorial

Android Introduction

What is Android

History and Version

Android Architecture

Core Building Blocks

Android Emulator

Install Android

Setup Eclipse

Hello Android example

Internal Details

Dalvik VM

AndroidManifest.xml

R.java

Hide Title Bar

Screen Orientation



Android Widgets

UI Widgets

Working with Button



Toast

Custom Toast

ToggleButton

CheckBox

Custom CheckBox

RadioButton

← prev

next →

Android Animation Example

Android provides a large number of classes and interface for the animation development. Most of the classes and interfaces are given in **android.animation** package.

Android Animation enables you to change the object property and behavior at run time. There are various ways to do animation in android.

The *AnimationDrawable* class provides methods to start and end the animation. Even, you can use time based animation.

Let's have a look at the simple example of android animation.



activity_main.xml

You need to have a view only.

File: activity_main.xml

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity" >

    <View
        />

</RelativeLayout>
```

File: logo.xml

Have a image view only.

```
<?xml version="1.0" encoding="utf-8"?>
<ImageView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/anm"
    >

</ImageView>
```



MainActivity class

File: MainActivity.java

```
package com.javatpoint.animation;

import android.os.Bundle;
import android.app.Activity;
import android.graphics.drawable.AnimationDrawable;
import android.widget.ImageView;

public class MainActivity extends Activity {

    ImageView anm;

    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.logo);
        anm = (ImageView)findViewById(R.id.anm);

        anm.setBackgroundResource(R.drawable.animation);
        // the frame-by-
        frame animation defined as a xml file within the drawable folder

        /*
        * NOTE: It's not possible to start the animation during the onCreate.
        */
    }

    public void onWindowFocusChanged (boolean hasFocus) {
        super.onWindowFocusChanged(hasFocus);
        AnimationDrawable frameAnimation =
            (AnimationDrawable) anm.getBackground
            if(hasFocus) {
                frameAnimation.start();
            } else {
                frameAnimation.stop();
            }
    }
}
```



```
}
```

You need to create animation.xml file inside res/drawable-hdpi directory.

You need to have many images. Here, we are using 14 images and all the 14 images are located inside res/drawable-mdpi directory.

File: animation.xml

```
<?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/frame0" android:duration="120" />
    <item android:drawable="@drawable/frame1" android:duration="120" />
    <item android:drawable="@drawable/frame2" android:duration="120" />
    <item android:drawable="@drawable/frame3" android:duration="120" />
    <item android:drawable="@drawable/frame4" android:duration="120" />
    <item android:drawable="@drawable/frame5" android:duration="120" />
    <item android:drawable="@drawable/frame6" android:duration="120" />
    <item android:drawable="@drawable/frame7" android:duration="120" />
    <item android:drawable="@drawable/frame8" android:duration="120" />
    <item android:drawable="@drawable/frame9" android:duration="120" />
    <item android:drawable="@drawable/frame10" android:duration="120" />
    <item android:drawable="@drawable/frame11" android:duration="120" />
    <item android:drawable="@drawable/frame12" android:duration="120" />
    <item android:drawable="@drawable/frame13" android:duration="120" />
    <item android:drawable="@drawable/frame14" a
    <item android:drawable="@drawable/frame14" a
    <item android:drawable="@drawable/frame13" a
    <item android:drawable="@drawable/frame12" a
    <item android:drawable="@drawable/frame11" a
    <item android:drawable="@drawable/frame10" android:duration="120" />
    <item android:drawable="@drawable/frame9" android:duration="120" />
    <item android:drawable="@drawable/frame8" android:duration="120" />
```



```
<item android:drawable="@drawable/frame7" android:duration="120" />
<item android:drawable="@drawable/frame6" android:duration="120" />
<item android:drawable="@drawable/frame5" android:duration="120" />
<item android:drawable="@drawable/frame4" android:duration="120" />
<item android:drawable="@drawable/frame3" android:duration="120" />
<item android:drawable="@drawable/frame2" android:duration="120" />
<item android:drawable="@drawable/frame1" android:duration="120" />
<item android:drawable="@drawable/frame0" android:duration="120" />

</animation-list>
```

[download this android example](#)

Output:







Next Topic [Android Web Service](#)



← prev

next →

Learn Important Tutorial



Python



Java



Javascript



HTML



Database

PHP



C++



React

B.Tech / MCA



DBMS



Data
Structures



DAA



Operating
System

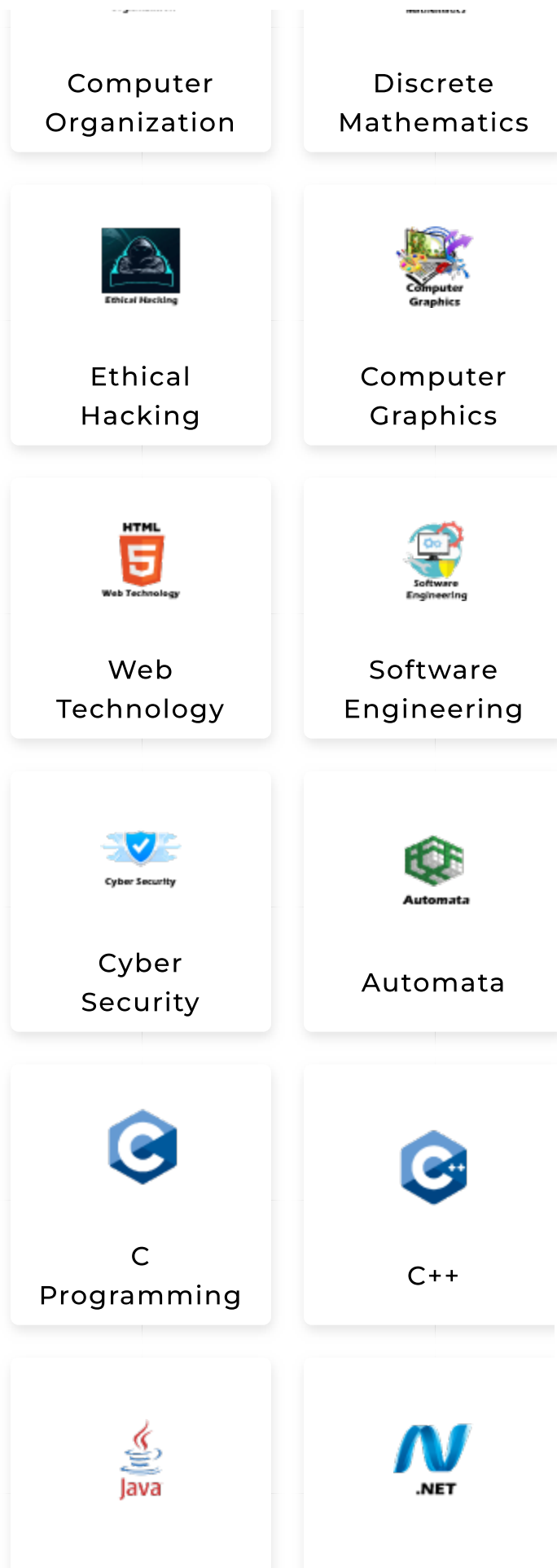


Computer
Network



Compiler
Design





Java

.Net



Python



Programs



Control
System



Data
Warehouse

Preparation



Aptitude



Reasoning



Verbal
Ability



Interview
Questions



Company
Questions

























