Using MediaPlayer and VideoView to Show Video

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We'll be looking at two ways to display video content on Android:

• VideoView widget

• MediaPlayer class
VideoView Widget

• Simplest method to use
• Wrapper around MediaPlayer class
• Just include in a layout and tell it what/when to play
VideoView Example

/res/layout/main.xml:

```xml
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <VideoView
        android:id="@+id/video"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_center="true" />

</RelativeLayout>
```
VideoView Example, cont

/src/org.tbadg/VideoViewActivity.java:

```java
package org.tbadg;

import android.app.Activity;
import android.os.Bundle;
import android.widget.VideoView;

public class VideoViewActivity extends Activity {

    private VideoView videoView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        videoView = (VideoView) findViewById(R.id.video);
        videoView.setVideoPath("/mnt/sdcard/Movies/bbb.mp4");
        videoView.start();
    }
}
```
Screenshot of VideoView
VideoView Playback Controls

• Probably want to have playback controls

• Add and cross-link a MediaController object

• Playback controls will appear when the VideoView widget is touched
VideoView with Controls Example

Add the following, along with the required import, to VideoViewActivity.java before the call to start playing the video:

```java
// Create and cross-link a controller overlay:
MediaController mc;
mc = new MediaController(this);
mc.setMediaPlayer(videoView);
videoView.setMediaController(mc);
```
Screenshot of VideoView with Controls
VideoView Widget

- Remote videos can be played, but the file format requirements are more stringent

- See the Android developer reference for a few additional settings and methods

- More complicated uses may require the use of the more capable MediaPlayer widget
MediaPlayer Class

Playing video with the MediaPlayer widget is more complicated:

- Requires strict adherence to a state machine
- Need to supply a Surface object
It's not as bad as it looks:

- Just have to always know which state you're currently in

- This is fairly easy if you always utilize callbacks to handle the transitions
MediaPlayer Demo

Let's walk through a demo utilizing the MediaPlayer widget...
Screenshot of MediaPlayer Demo
References


Q & A

Questions?