

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app

1: Project

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res

Gradle Scripts

Resource Manager

2: Favorites

Build Variants

Layout Captures

Asset Studio

Configure Image Asset

Android Studio

Icon Type: Launcher Icons (Adaptive and Legacy) Preview: xhdpi Show Safe Zone Show Grid

Name: ic_launcher

Foreground Layer Background Layer Legacy

Layer Name: ic_launcher_foreground

Source Asset

Asset Type: Image Clip Art Text

Path: wable-v24\\ic_launcher_foreground.xml

Scaling

Trim: Yes No

Resize: 100 %

Click Browse... to navigate to and select the image file

Circle Squircle Rounded Square Square

Full Bleed Layers Legacy Icon Round Icon Google Play Store

⚠ An icon with the same name already exists and will be overwritten.

Previous Next Cancel Finish Help

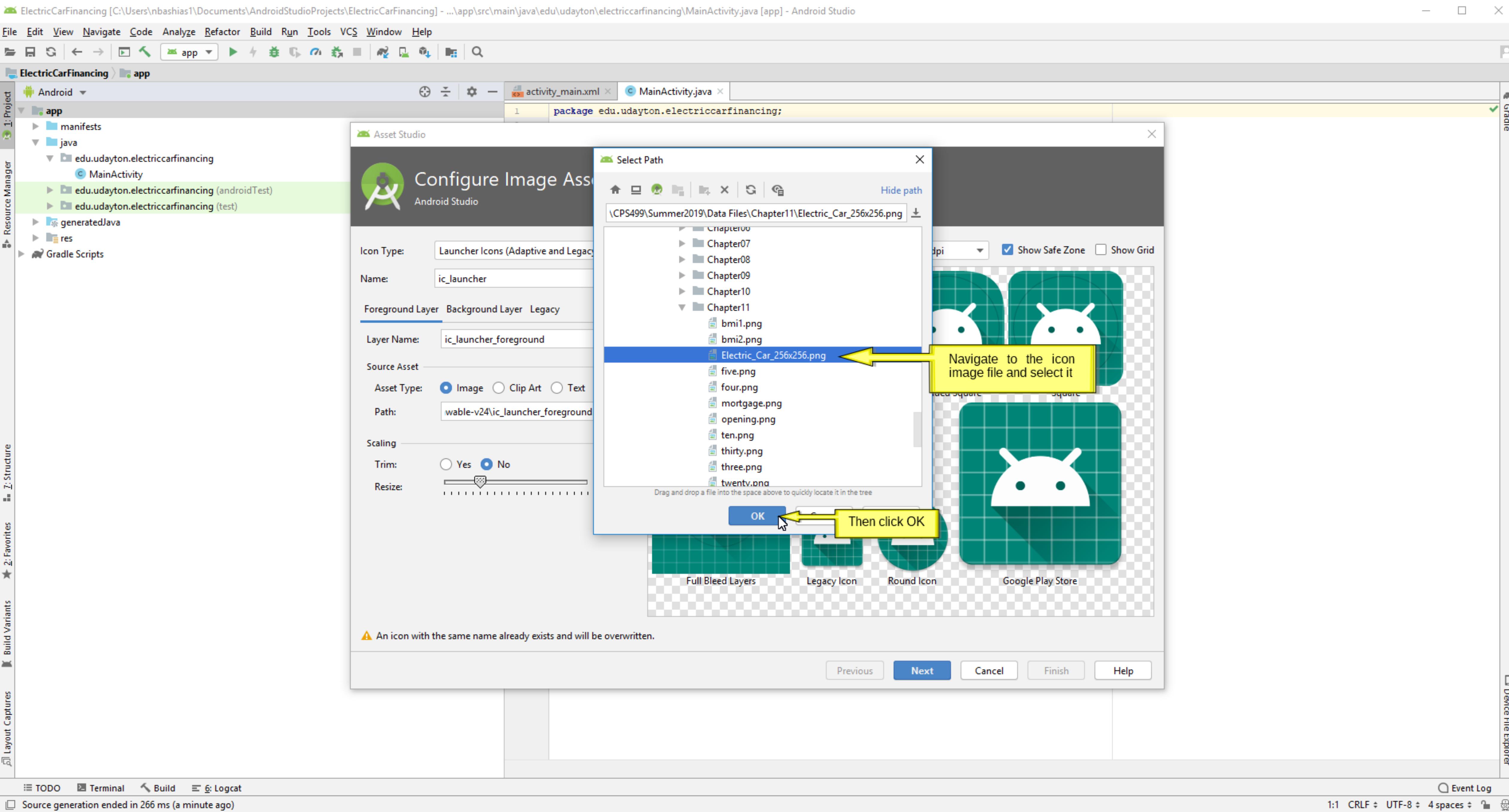
TODO Terminal Build Logcat

Source generation ended in 266 ms (moments ago)

Event Log

Device File Explorer

The screenshot shows the 'Configure Image Asset' dialog in Android Studio. The 'Icon Type' is set to 'Launcher Icons (Adaptive and Legacy)'. The 'Name' is 'ic_launcher'. The 'Foreground Layer' tab is selected. The 'Layer Name' is 'ic_launcher_foreground'. The 'Asset Type' is set to 'Image'. The 'Path' is 'wable-v24\\ic_launcher_foreground.xml'. A yellow callout points to the 'Browse...' button next to the path field with the text 'Click Browse... to navigate to and select the image file'. The preview area shows eight icons: Circle, Squircle, Rounded Square, Square, Full Bleed Layers, Legacy Icon, Round Icon, and Google Play Store. A warning message at the bottom states '⚠ An icon with the same name already exists and will be overwritten.' At the bottom are buttons for 'Previous', 'Next', 'Cancel', 'Finish', and 'Help'.



ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

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ElectricCarFinancing app

1: Project

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Resource Manager

2: Favorites

Build Variants

Layout Captures

Asset Studio

Configure Image Asset

Android Studio

Icon Type: Launcher Icons (Adaptive and Legacy)

Name: ic_launcher

Foreground Layer Background Layer Legacy

Layer Name: ic_launcher_foreground

Source Asset

Asset Type: Image Clip Art Text

Path: C:\es\Chapter11\Electric_Car_256x256.png

Scaling

Trim: Yes No

Resize: 100 %

Preview xhdpi Show Safe Zone Show Grid

Circle Squircle Rounded Square Square

Full Bleed Layers Legacy Icon Round Icon Google Play Store

⚠ An icon with the same name already exists and will be overwritten.

Click Next

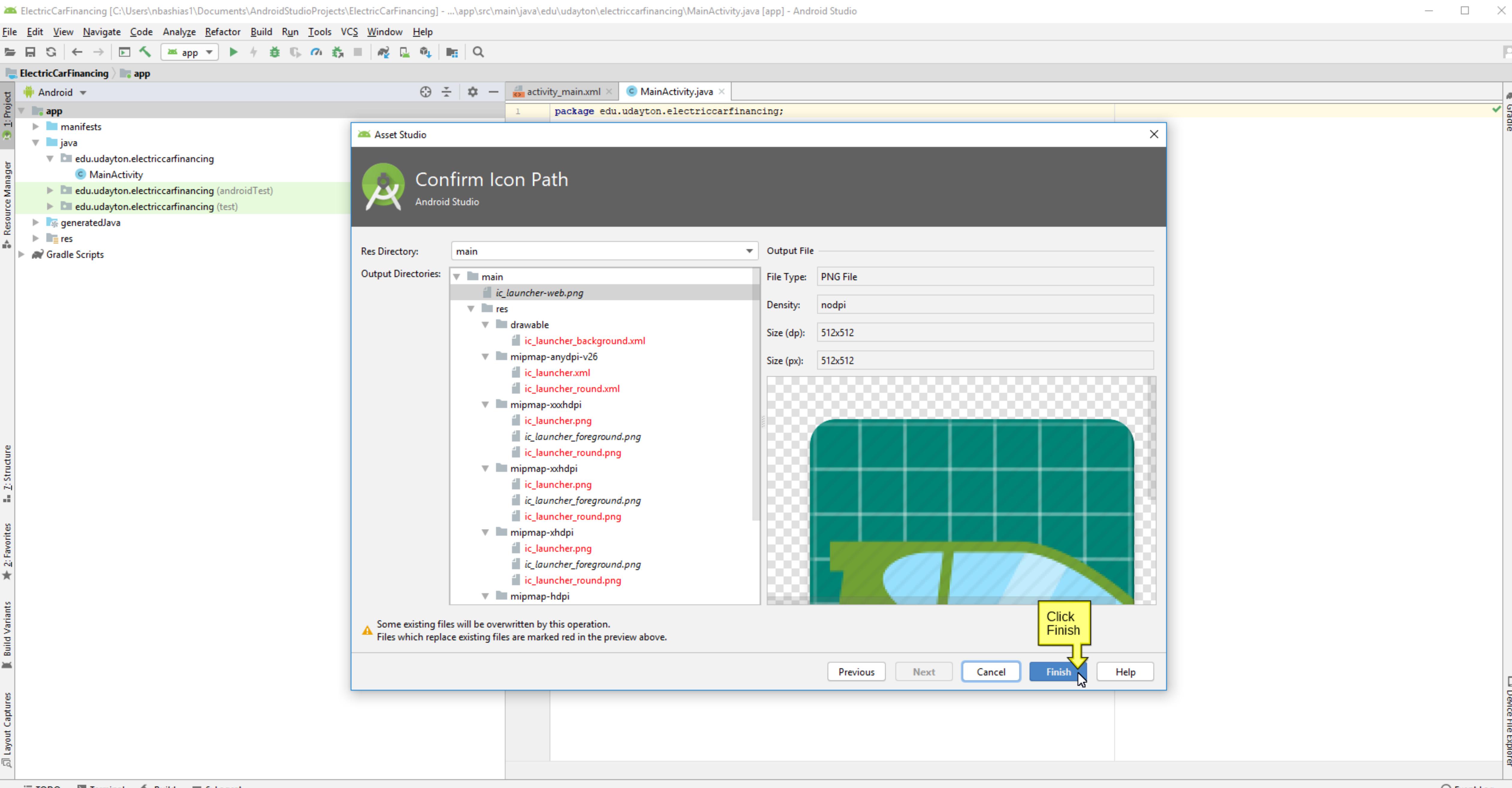
Next Previous Cancel Finish Help

TODO Terminal Build Logcat

Source generation ended in 266 ms (a minute ago)

1:1 CRLF UTF-8 4 spaces

Device File Explorer





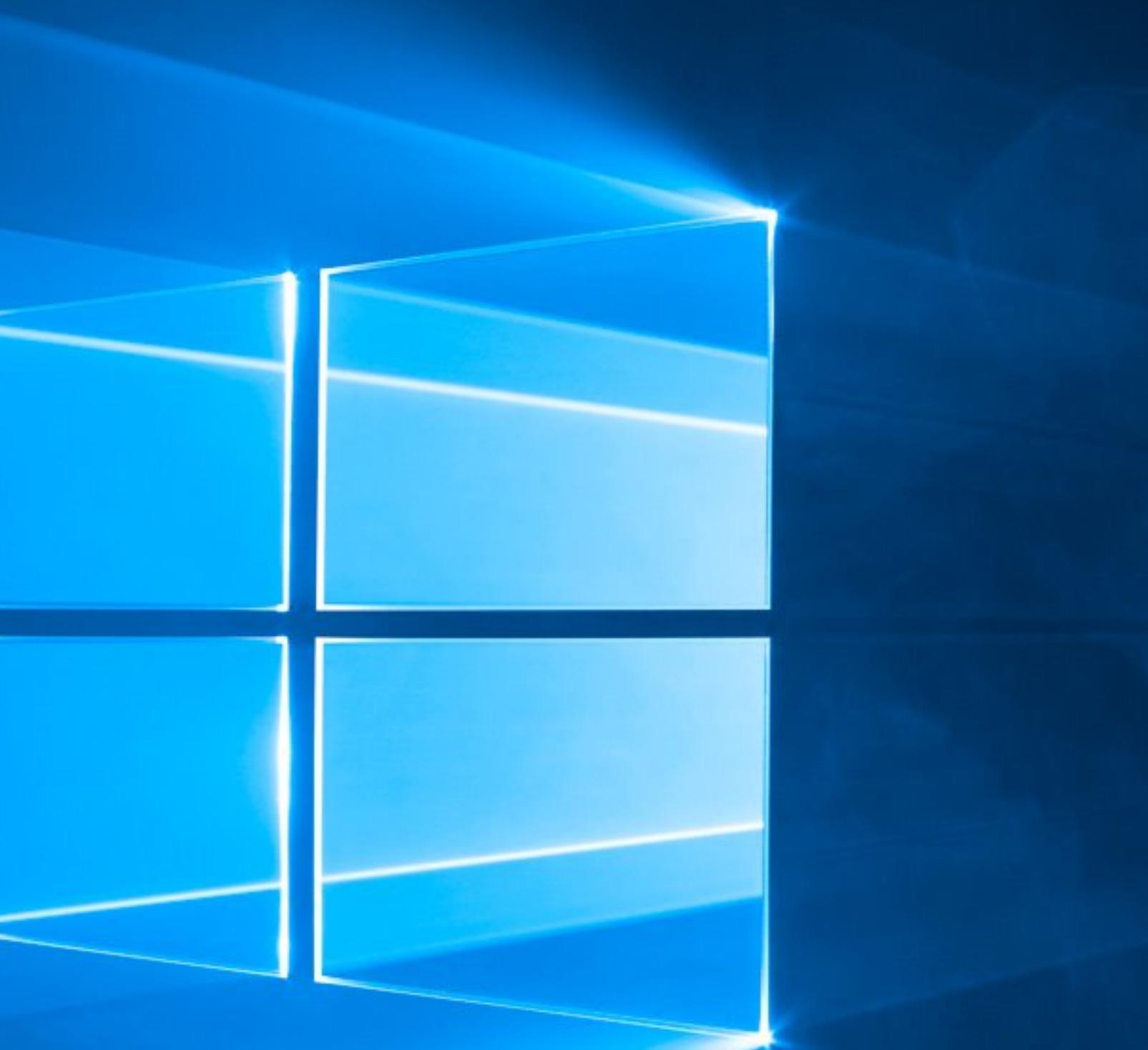
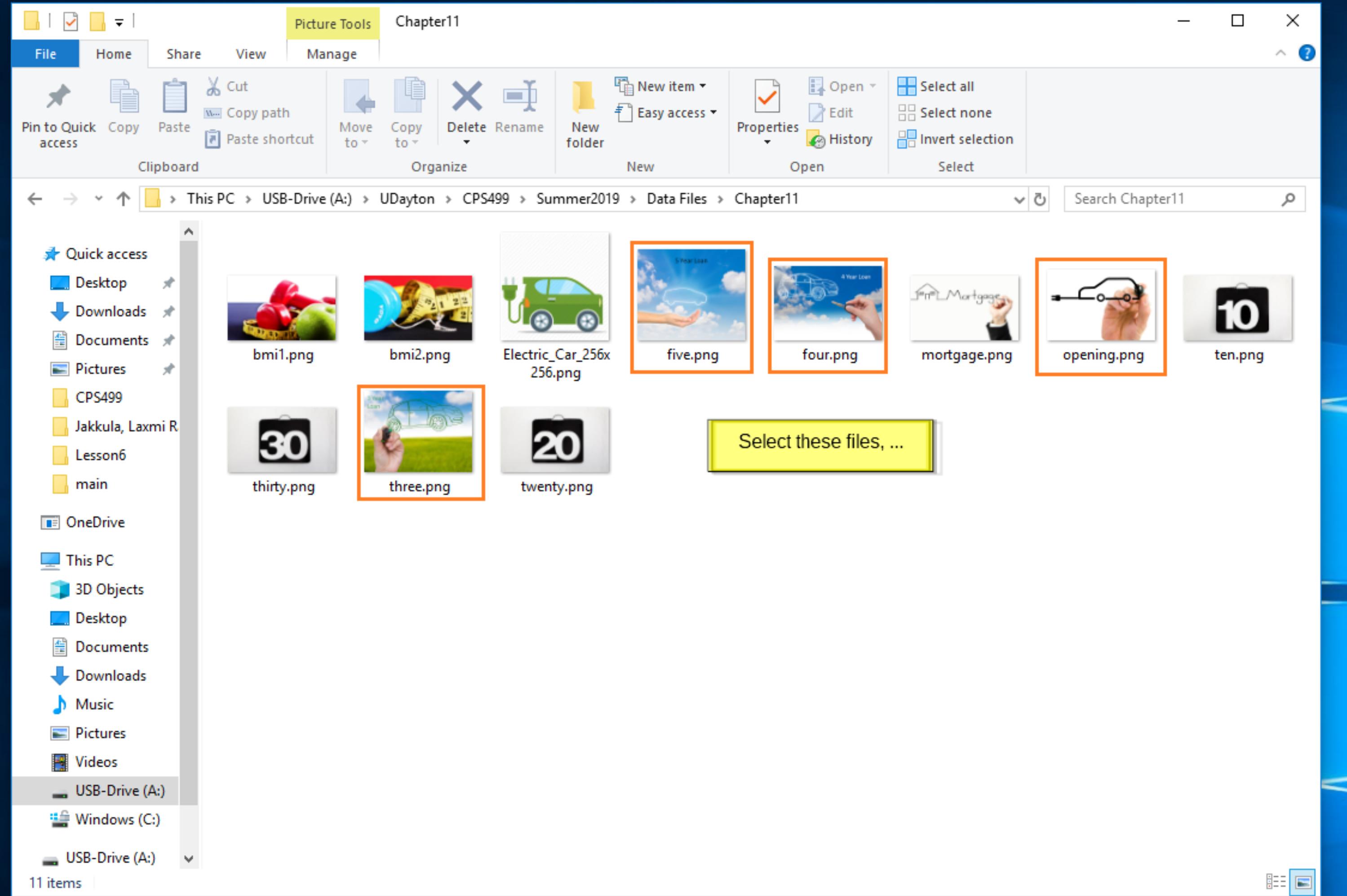
1:Project

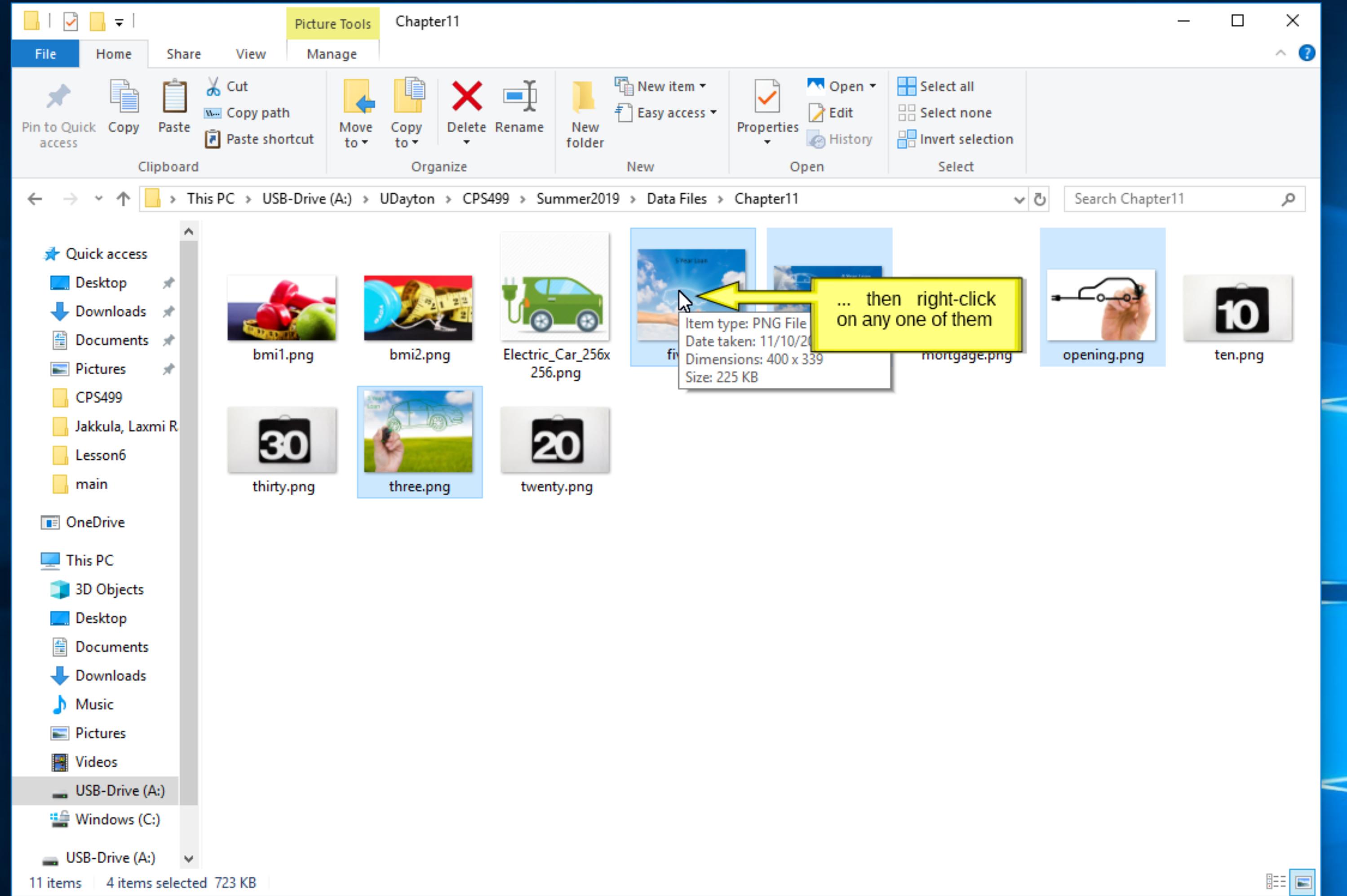
- app
 - manifests
 - java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
 - generatedJava
 - res
- Gradle Scripts

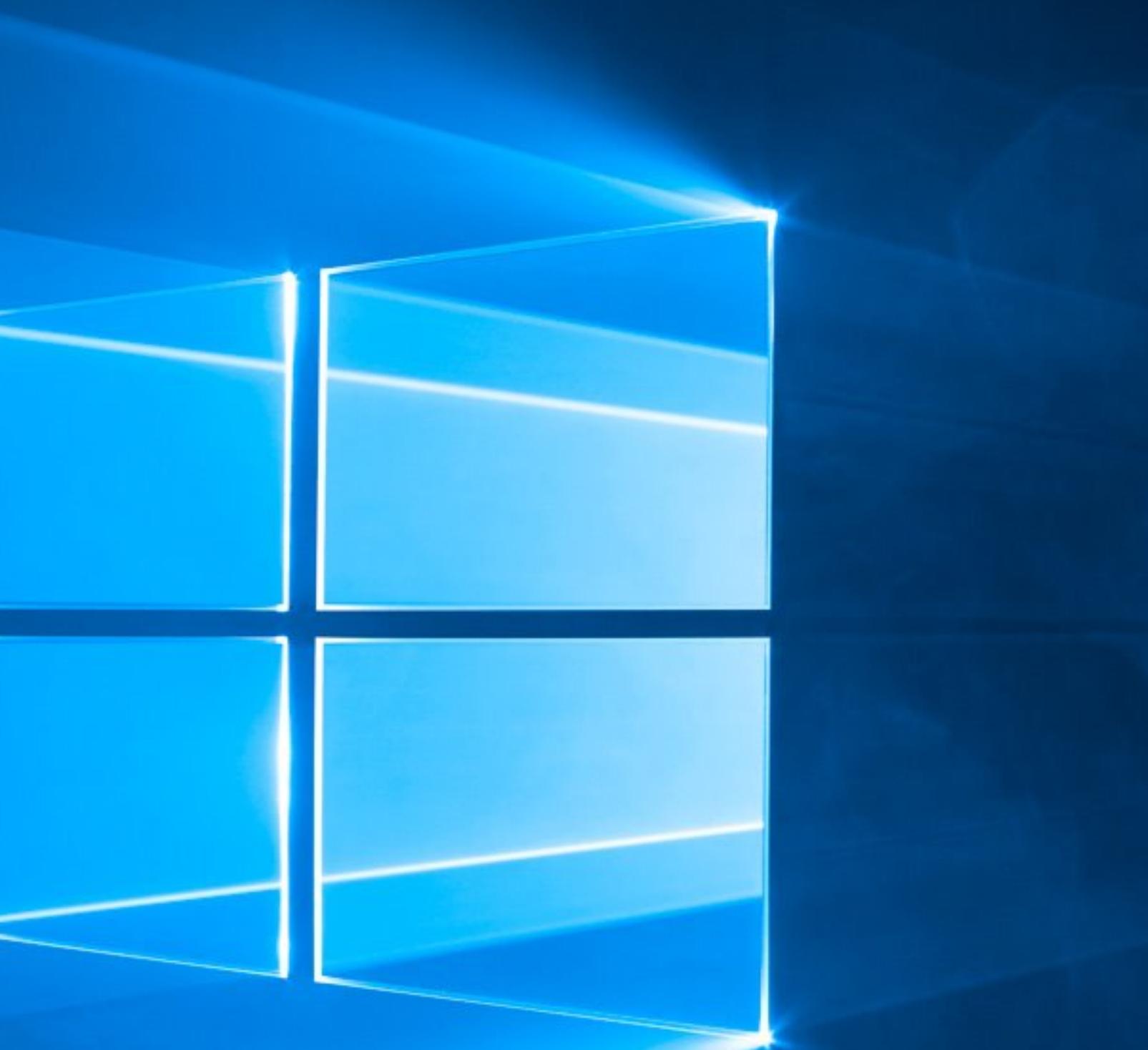
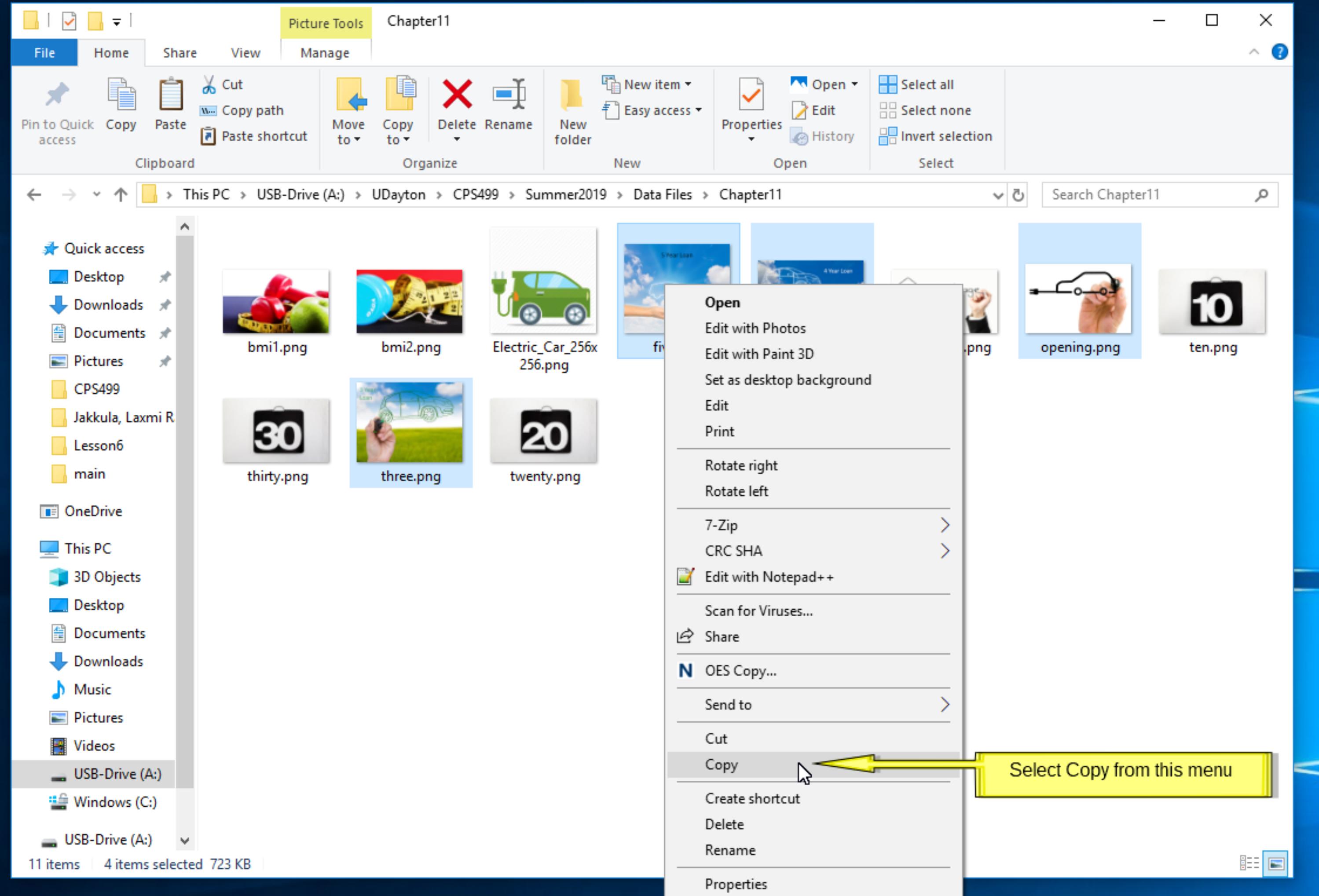
```
1 package edu.udayton.electriccarfinancing;  
2  
3 import ...  
4  
5 public class MainActivity extends AppCompatActivity {  
6     @Override  
7     protected void onCreate(Bundle savedInstanceState) {  
8         super.onCreate(savedInstanceState);  
9         setContentView(R.layout.activity_main);  
10    }  
11 }  
12  
13 }  
14 }
```

Minimize Android Studio to the background so we can import the rest of the app's image files









Select Copy from this menu

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app

1:Project

Resource Manager

2: Favorites

Build Variants

Layout Captures

3: Structure

Gradle Scripts

After restoring Android Studio to the foreground, expand the app/res folder in the Project explorer

activity_main.xml MainActivity.java

```
1 package edu.udayton.electriccarfinancing;
2
3 import ...
4
5
6 public class MainActivity extends AppCompatActivity {
7
8     @Override
9     protected void onCreate(Bundle savedInstanceState) {
10         super.onCreate(savedInstanceState);
11         setContentView(R.layout.activity_main);
12     }
13
14 }
```

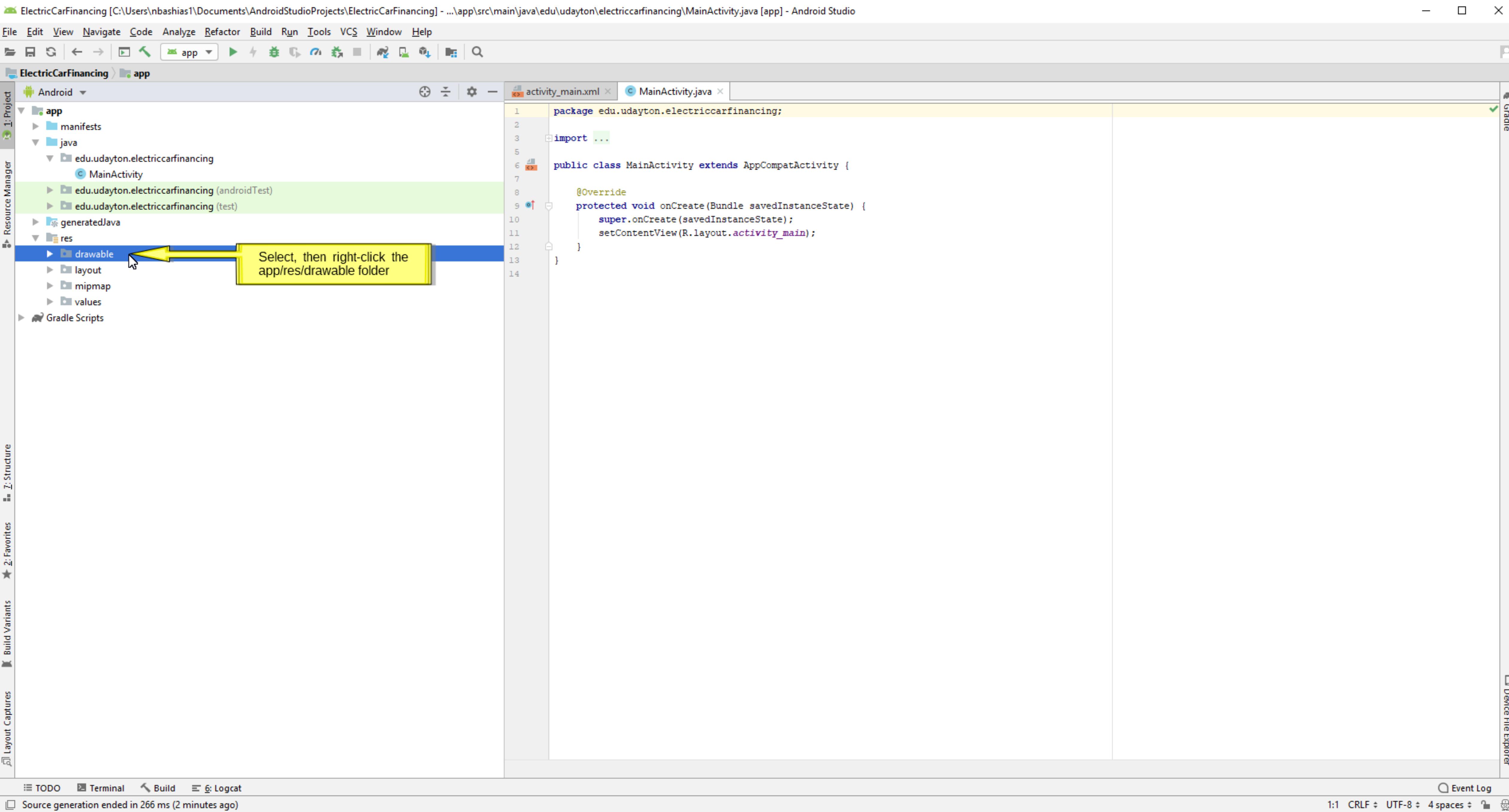
Device File Explorer

TODO Terminal Build Logcat

Event Log

Source generation ended in 266 ms (2 minutes ago)

1:1 CRLF UTF-8 4 spaces



ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > drawable-v24

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures

Android

app

- manifests
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 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Gradle Scripts

New

Link C++ Project with Gradle

Cut Ctrl+X

Copy Ctrl+C

Copy Paths Ctrl+Shift+C

Copy References Ctrl+Alt+Shift+C

Paste

Find Usages

Analyze

Refactor

Add to Favorites

Show Image Thumbnails Ctrl+Shift+T

Reformat Code Ctrl+Alt+L

Optimize Imports Ctrl+Alt+O

Delete...

Run 'Tests in 'drawable-v24'' Ctrl+Shift+F10

Debug 'Tests in 'drawable-v24''

Run 'Tests in 'drawable-v24'' with Coverage

Create 'Tests in 'drawable-v24''...

Show in Explorer

Open in Terminal

Local History

Synchronize selected files

Edit Scopes...

File Path Ctrl+Alt+F12

Compare Directories Ctrl+D

Load/Unload Modules...

Remove BOM

Create Gist...

Convert Java File to Kotlin File Ctrl+Alt+Shift+K

Convert to WebP...

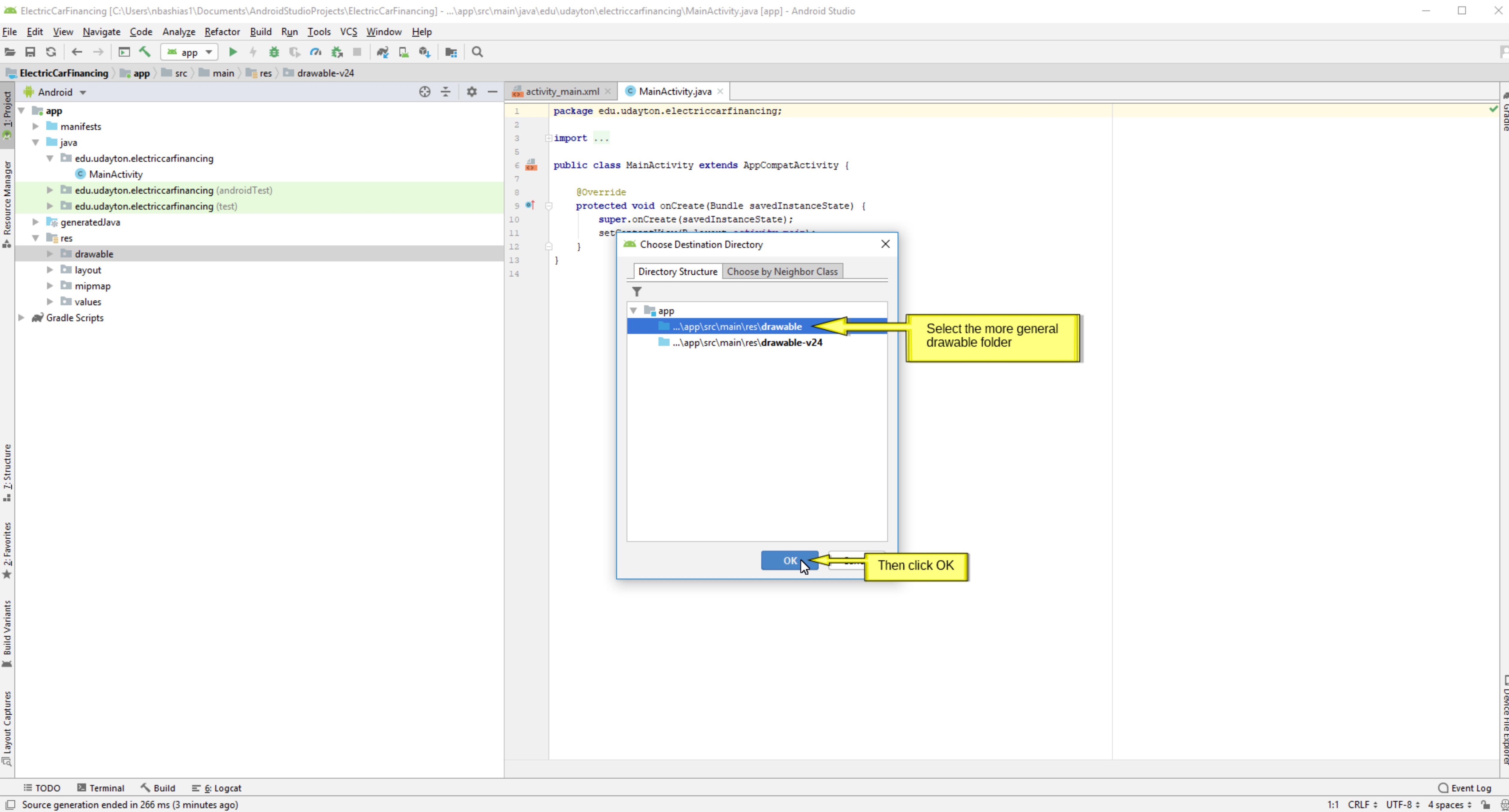
activity_main.xml

```
1 package edu.udayton.electriccarfinancing;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6     @Override
7     protected void onCreate(Bundle savedInstanceState) {
8         super.onCreate(savedInstanceState);
9         setContentView(R.layout.activity_main);
10    }
11 }
12
13 }
```

MainActivity.java

1:1 CRLF ÷ UTF-8 ÷ 4 spaces ÷

Event Log



ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > drawable-v24

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures 6:Logcat

Android

app

- manifests
- java
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- edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Gradle Scripts

activity_main.xml

```
1 package edu.udayton.electriccarfinancing;
2
3 import ...
4
5 public class MainActivity extends AppCompatActivity {
6     @Override
7     protected void onCreate(Bundle savedInstanceState) {
8         super.onCreate(savedInstanceState);
9         setContentView(R.layout.activity_main);
10    }
11 }
12
13 }
```

MainActivity.java

Copy

Copy specified files

To directory: androidStudioProjects\ElectricCarFinancing\app\src\main\res\drawable

Use Ctrl+Space for path completion

OK Cancel Help

Click OK to confirm the import

1: TODO 2: Terminal 3: Build 4: Logcat

Source generation ended in 266 ms (3 minutes ago)

1:1 CRLF 4 spaces

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > values

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures 6:Logcat

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values

Gradle Scripts

activity_main.xml MainActivity.java

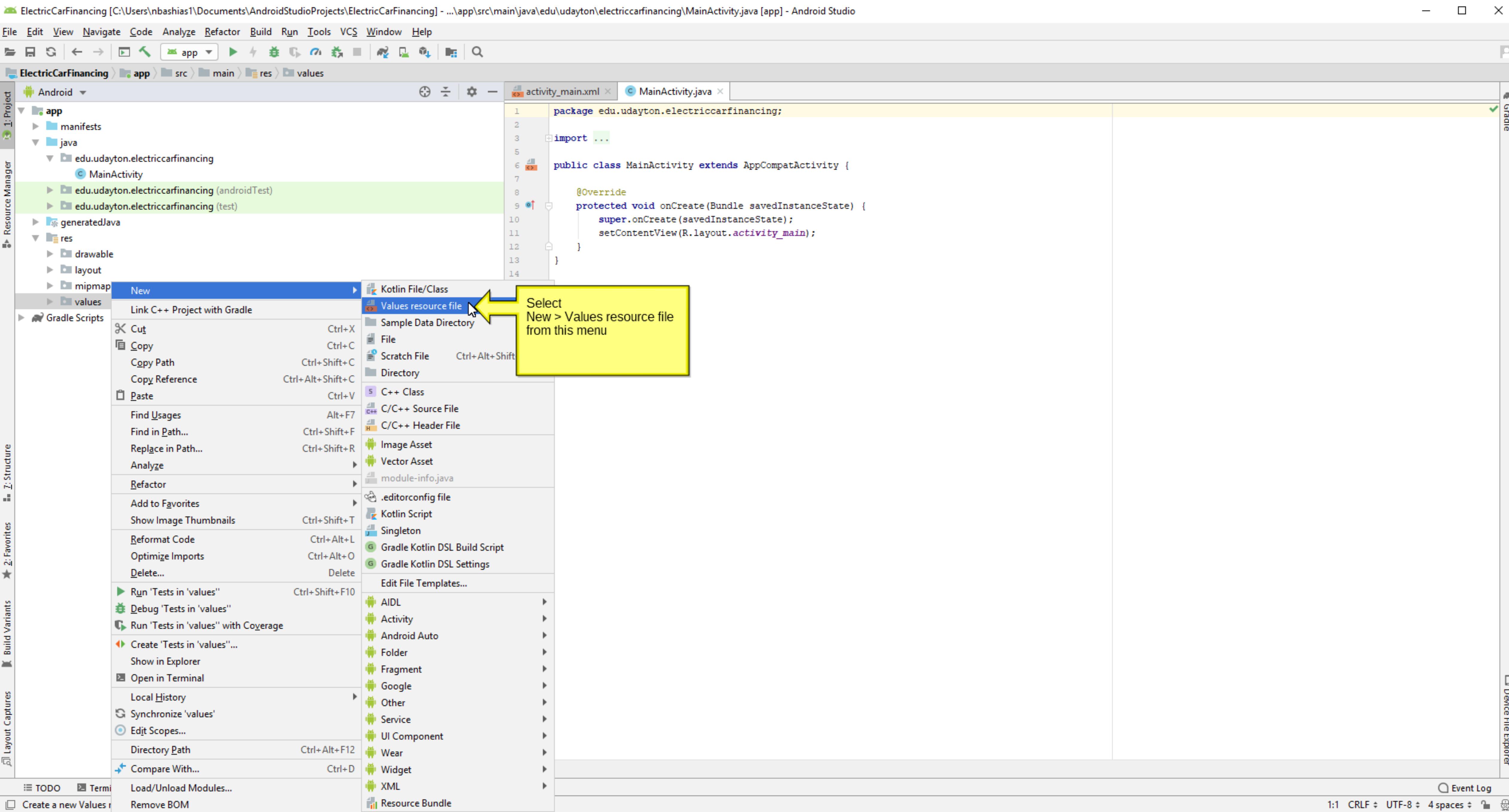
```
1 package edu.udayton.electriccarfinancing;
2
3 import ...
4
5
6 public class MainActivity extends AppCompatActivity {
7
8     @Override
9     protected void onCreate(Bundle savedInstanceState) {
10         super.onCreate(savedInstanceState);
11         setContentView(R.layout.activity_main);
12     }
13
14 }
```

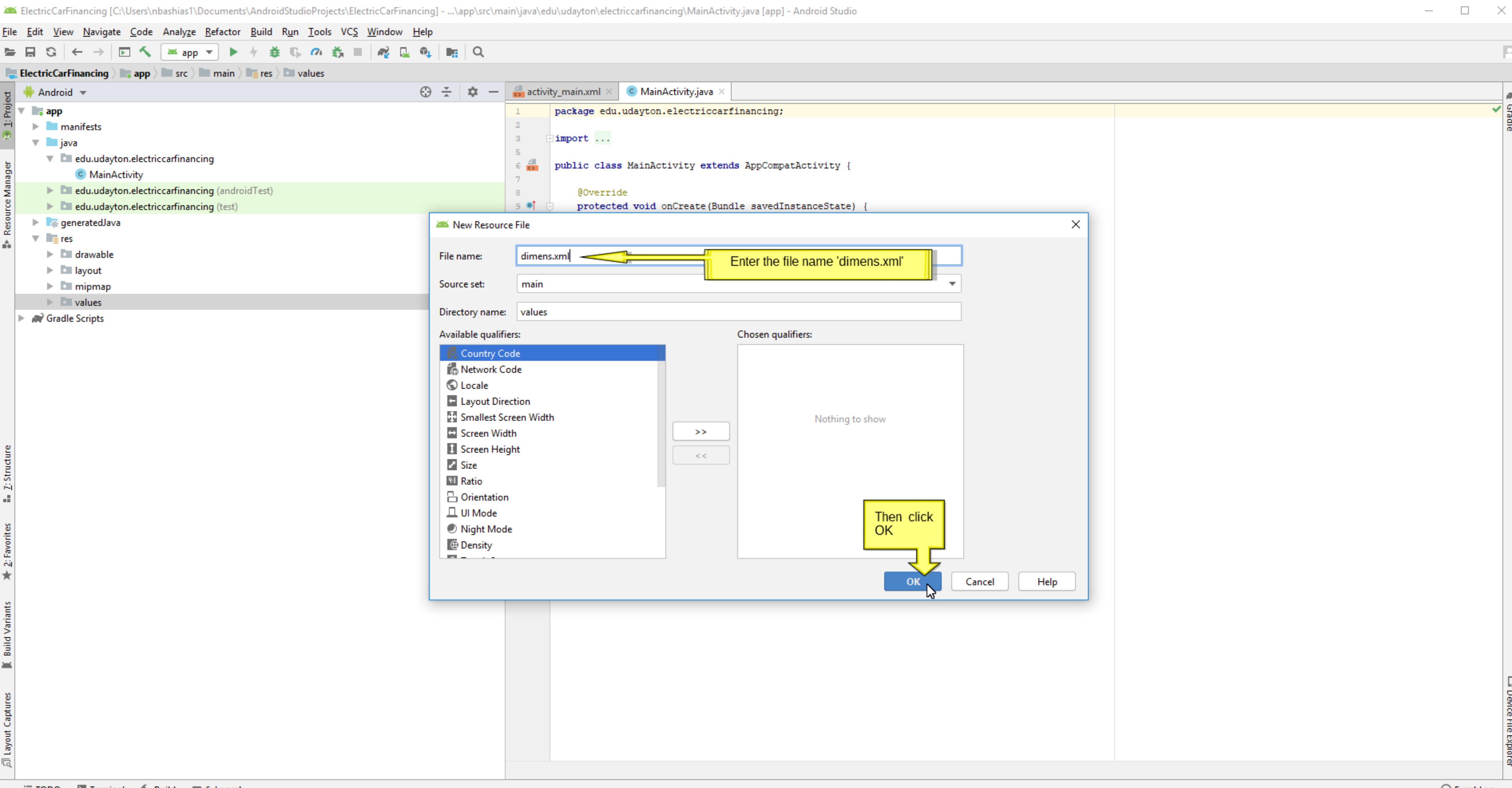
To add the dimension resources for this app, select, then right-click, the res/values folder

Device File Explorer

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (3 minutes ago) 1:1 CRLF UTF-8 4 spaces







Android

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- manifests
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- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

activity_main.xml

MainActivity.java

dimens.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources></resources>
```

Place the I-beam cursor inside the resources tag, and hit the Enter key

resources



```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="btnPaymentTextSize">35sp</dimen>
    <dimen name="txtInterestTextSize">25sp</dimen>
    <dimen name="txtLoanTextSize">25sp</dimen>
    <dimen name="txtMonthlyPaymentTextSize">25sp</dimen>
    <dimen name="txtMainTitleTextSize">32sp</dimen>
    <dimen name="txtPaymentTitleTextSize">30sp</dimen>
</resources>
```

Add these dimension resources for the text sizes, then ...



1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

dimens.xml

activity_main.xml

MainActivity.java

dimens.xml

values

colors.xml

dimens.xml

strings.xml

styles.xml

generatedJava

res

drawable

layout

mipmap

app

manifests

java

edu.udayton.electriccarfinancing

MainActivity

edu.udayton.electriccarfinancing (androidTest)

edu.udayton.electriccarfinancing (test)

Gradle Scripts

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3      <dimen name="btnPaymentTextSize">35sp</dimen>
4      <dimen name="txtInterestTextSize">25sp</dimen>
5      <dimen name="txtLoanTextSize">25sp</dimen>
6      <dimen name="txtMonthlyPaymentTextSize">25sp</dimen>
7      <dimen name="txtMainTitleTextSize">32sp</dimen>
8      <dimen name="txtPaymentTitleTextSize">30sp</dimen>
9
10     <dimen name="btnPaymentTopMargin">28dp</dimen>
11     <dimen name="imgOpeningTopMargin">10dp</dimen>
12     <dimen name="imgYearsHeight">250dp</dimen>
13     <dimen name="imgYearsTopMargin">20dp</dimen>
14     <dimen name="imgYearsWidth">350dp</dimen>
15     <dimen name="txtInterestTopMargin">15dp</dimen>
16     <dimen name="txtLoanTopMargin">15dp</dimen>
17     <dimen name="txtMnthalPaymentTopMargin">40dp</dimen>
18     <dimen name="txtMainTitleTopMargin">20dp</dimen>
19     <dimen name="txtPaymentTitleTopMargin">30dp</dimen>
20     <dimen name="yearSpinnerTopMargin">20dp</dimen>
21 </resources>
```

... add these dimension resources for other sizes and spacing

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\values\\dimens.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > values > dimens.xml

1:Project Resource Manager

Android

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- manifests
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 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

2: Favorites Build Variants Layout Captures

Close. Alt-click to close others

activity_main.xml MainActivity.java dimens.xml

Close the dimens.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="btnPaymentTextSize">16sp</dimen>
    <dimen name="txtInterestTextSize">14sp</dimen>
    <dimen name="txtLoanTextSize">14sp</dimen>
    <dimen name="txtMonthlyPaymentTextSize">14sp</dimen>
    <dimen name="txtMainTitleTextSize">24sp</dimen>
    <dimen name="txtPaymentTitleTextSize">30sp</dimen>

    <dimen name="btnPaymentTopMargin">28dp</dimen>
    <dimen name="imgOpeningTopMargin">10dp</dimen>
    <dimen name="imgYearsHeight">250dp</dimen>
    <dimen name="imgYearsTopMargin">20dp</dimen>
    <dimen name="imgYearsWidth">350dp</dimen>
    <dimen name="txtInterestTopMargin">15dp</dimen>
    <dimen name="txtLoanTopMargin">15dp</dimen>
    <dimen name="txtMonthlyPaymentTopMargin">40dp</dimen>
    <dimen name="txtMainTitleTopMargin">20dp</dimen>
    <dimen name="txtPaymentTitleTopMargin">30dp</dimen>
    <dimen name="yearSpinnerTopMargin">20dp</dimen>
</resources>
```

resources

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (9 minutes ago) 20:52 CRLF 4 spaces

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > values > strings.xml

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures 6:Logcat

Gradle Scripts

1:Project

Android

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- manifests
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 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Resource Manager

Gradle Scripts

1:Project

activity_main.xml

MainActivity.java

```
1 package edu.udayton.electriccarfinancing;
2
3 import ...
4
5
6 public class MainActivity extends AppCompatActivity {
7
8     @Override
9     protected void onCreate(Bundle savedInstanceState) {
10         super.onCreate(savedInstanceState);
11         setContentView(R.layout.activity_main);
12     }
13 }
14
```

To add string resources, open the strings.xml file

Layout Captures

Event Log

Source generation ended in 266 ms (9 minutes ago)

1:1 CRLF ▾ UTF-8 ▾ 4 spaces ▾

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\values\\strings.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res values strings.xml

1:Project Resource Manager 2:Favorites 3:Build Variants 4:Layout Captures

Android

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 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
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 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Edit translations for all locales in the translations editor.

Open editor Hide notification

Open the Translations Editor and add the string resources shown on the next page (details not shown here)

resources

activity_main.xml MainActivity.java strings.xml

```
<resources>
    <string name="app_name">Electric Car Financing</string>
</resources>
```

TODO Terminal Build Logcat

Source generation ended in 266 ms (9 minutes ago) 1:1 CRLF 4 spaces

Event Log



ElectricCarFinancing > app > src > main > res > values > strings.xml

1:Project Resource Manager 2:Structure 3:Favorites 4:Build Variants 5:Layout Captures 6:Logcat

Activity_main.xml MainActivity.java strings.xml

Edit translations for all locales in the translations editor.

```
<resources>
    <string name="app_name">Electric Car Financing</string>
    <string name="btnPaymentLabel">Car Payment</string>
    <string name="hint2">Car Loan Amount</string>
    <string name="hint3">Interest Rate</string>
    <string name="imgOpeningDescription">App Opening Image</string>
    <string name="imgYearsDescription">Number of Years Image</string>
    <string name="prompt1">Number of Years</string>
    <string name="txtMonthlyPaymentText">Monthly Payment</string>
    <string name="txtTitleText">Electric Car Financing</string>
</resources>
```

Add these string resources

Note that hint1 has been replaced by prompt1.
This lesson shows using a Spinner to set the number of years (term) of the loan instead of using a text field (as shown in Chapter 11 of the textbook).



ElectricCarFinancing > app > src > main > res > values > strings.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

resources

TODO Terminal Build Logcat

Source generation ended in 266 ms (12 minutes ago)

17:20 CRLF 4 spaces

Event Log

Gradle

Android

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- manifests
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 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Edit translations for all locales in the translations editor.

```
1 <resources>
2   <string name="app_name">Electric Car Financing</string>
3
4   <string name="btnPaymentLabel">Car Payment</string>
5   <string name="hint2">Car Loan Amount</string>
6   <string name="hint3">Interest Rate</string>
7   <string name="imgOpeningDescription">App Opening Image</string>
8   <string name="imgYearsDescription">Number of Years Image</string>
9   <string name="prompt1">Number of Years</string>
10  <string name="txtMonthlyPaymentText">Monthly Payment</string>
11  <string name="txtTitleText">Electric Car Financing</string>
12
13  <string-array name="years">
14    <item>Three</item>
15    <item>Four</item>
16    <item>Five</item>
17  </string-array>
18
19</resources>
```

Since this lesson uses a Spinner to set the number of years, add this string-array for the Spinner entries



Close. Alt-click to close others

Close the strings.xml file

```
1 <resources>
2     <string name="app_name">Electric Car Financing</string>
3
4     <string name="btnPaymentLabel">Car Payment</string>
5     <string name="hint2">Car Loan Amount</string>
6     <string name="hint3">Interest Rate</string>
7     <string name="imgOpeningDescription">App Opening Image</string>
8     <string name="imgYearsDescription">Number of Years Image</string>
9     <string name="prompt1">Number of Years</string>
10    <string name="txtMonthlyPaymentText">Monthly Payment</string>
11    <string name="txtTitleText">Electric Car Financing</string>
12
13    <string-array name="years">
14        <item>Three</item>
15        <item>Four</item>
16        <item>Five</item>
17    </string-array>
18 </resources>
```

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\MainActivity.java [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main java [app] C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing\app\src\main\res\layout\activity_main.xml

1:Project

Android

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 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Resource Manager

Now we can customize our main layout; switch to the main layout file

```
1 package edu.udayton.electriccarfinancing;
2
3 import android.os.Bundle;
4 import android.support.v7.app.AppCompatActivity;
5
6
7 public class MainActivity extends AppCompatActivity {
8
9     @Override
10    protected void onCreate(Bundle savedInstanceState) {
11        super.onCreate(savedInstanceState);
12        setContentView(R.layout.activity_main);
13    }
14}
```

Gradle Scripts

2: Favorites

Build Variants

Layout Captures

Event Log

TODO Terminal Build Logcat

Source generation ended in 266 ms (13 minutes ago)

1:1 CRLF ▾ UTF-8 ▾ 4 spaces ▾

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

ConstraintLayout

Ab TextView- "Hello World!"

Attributes

Ab <unnamed> TextView

id

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

visibility

visibility

Common Attributes

text Hello World!

text

contentDescription

textAppearance @android:style/TextAp

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondar

textStyle B I Tr

All Attributes

alpha

autoLink

Design Text

As we've done in prior lessons, we'll modify the default TextView as the main layout title

But first, let's change to a vertical LinearLayout
Start by switching to the layout's text view

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2: Favorites

Build Variants

Layout Captures

1: Structure

2: Favorites

Gradle Scripts

Activity Main XML

Main Activity Java

XML version="1.0" encoding="utf-8" ?>

<android.support.constraint.ConstraintLayout>

 xmlns:app="http://schemas.android.com/apk/res-auto"

 xmlns:tools="http://schemas.android.com/tools"

 android:layout_width="match_parent"

 android:layout_height="match_parent"

 tools:context=".MainActivity">

 <TextView

 android:layout_width="wrap_content"

 android:layout_height="wrap_content"

 android:text="Hello World!"

 app:layout_constraintBottom_toBottomOf="parent"

 app:layout_constraintLeft_toLeftOf="parent"

 app:layout_constraintRight_toRightOf="parent"

 app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>

android.support.constraint.ConstraintLayout

Design Text

Select the ConstraintLayout full path, type 'Linear' ...

43 chars 2:45 CRLF 4 spaces

Source generation ended in 266 ms (13 minutes ago)

Event Log



1: Project

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml
- Gradle Scripts

2: Favorites

Build Variants

Layout Captures

activity_main.xml x MainActivity.java x

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</LinearLayout>
```

... and select LinearLayout from this code completion menu

Press Ctrl+Space to view tags from other namespaces

Linear

Design Text

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project 2:Resource Manager 3:Gradle 4:Preview

1:Structure 2:Favorites 3:Build Variants 4:Layout Captures

activity_main.xml x MainActivity.java x

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

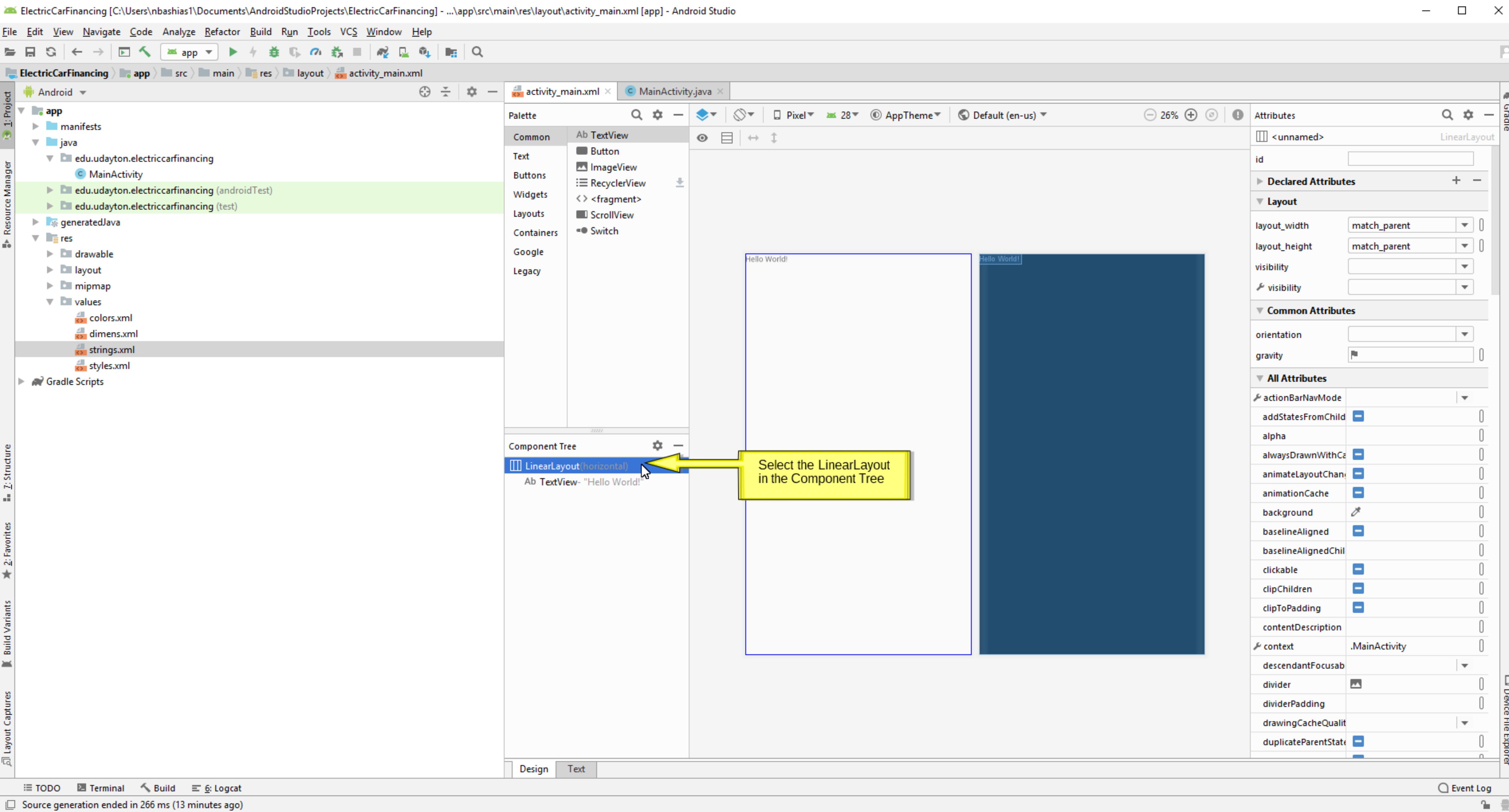
</LinearLayout>
```

Switch back to the layout's design view

LinearLayout Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (13 minutes ago) 2:14 CRLF 4 spaces



ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Favorites

Build Variants

Layout Captures

1:Project

Java

edu.udayton.electriccarfinancing

MainActivity

edu.udayton.electriccarfinancing (androidTest)

edu.udayton.electriccarfinancing (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

activity_main.xml

MainActivity.java

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 AppTheme Default (en-us) 26% Attributes

Ab TextView

Button

ImageView

RecyclerView

<> <fragment>

ScrollView

Switch

Hello World!

Hello World!

Component Tree

LinearLayout(horizontal)

Ab TextView- "Hello World!"

Design Text

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout_width match_parent

layout_height match_parent

visibility

visibility

Common Attributes

orientation horizontal

gravity vertical

All Attributes

Select vertical orientation

Device File Explorer

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (14 minutes ago)

The screenshot shows the Android Studio layout editor for the 'activity_main.xml' file. The layout consists of a single 'LinearLayout' with a horizontal orientation, containing two 'TextView' components, each displaying the text 'Hello World!'. The 'gravity' attribute for the layout is currently set to 'horizontal'. A yellow callout box with the text 'Select vertical orientation' points to the 'vertical' option in the dropdown menu for the 'gravity' attribute in the attributes panel.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

3:Favorites

Build Variants

Layout Captures

Activity Main XML

Java MainActivity.java

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

LinearLayout(vertical)

Ab TextView- "Hello World!"

Attributes

Ab <unnamed> TextView

id

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text Hello World!

text

contentDescription

textAppearance @android:style/TextAp

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranul

autoSizeTextType

autoText

background

bufferType

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (14 minutes ago)

Now we can modify this TextView for the main title

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is being edited. In the palette, 'Ab TextView' is selected. The component tree shows a single 'Ab TextView' node with the text 'Hello World!'. A yellow callout box with the text 'Now we can modify this TextView for the main title' points to this node. The attributes panel on the right shows various properties for this TextView, such as text, textSize, and textColor.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

3:Favorites

Build Variants

Layout Captures

Activity Main XML Editor

activity_main.xml

MainActivity.java

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "Hello Wo..."

Attributes

Ab mainTitleTextView

Declared Attributes

Layout

layout_width

layout_height

layout_weight

visibility

visibility

Common Attributes

text

text

contentDescription

textAppearance

fontFamily

typeface

textSize

lineSpacingExtra

textColor

textStyle

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

Design Text

Change the TextView's ID

Source generation ended in 266 ms (14 minutes ago)

Event Log

The screenshot shows the Android Studio layout editor for the 'activity_main.xml' file. The left sidebar displays the project structure, with the 'app' module selected. The main area shows a vertical linear layout containing a single text view with the text 'Hello World!'. The right side of the screen contains the layout editor's controls, including a palette of UI components, a component tree, and an attributes panel. A yellow callout box highlights the 'ID' field in the attributes panel for the main title text view, with the text 'Change the TextView's ID' inside it.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Build Variants

Layout Captures

2:Favorites

Component Tree

Ab LinearLayout(vertical)

Ab mainTitleTextView- "Hello Wo..."

Design Text

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Attributes

Ab mainTitleTextView

id mainTitleTextView

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text Hello World!

text

contentDescription

textAppearance

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

Use the Resources manager to set the TextView's text

Device File Explorer

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (15 minutes ago)

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is selected. The left sidebar shows the project structure, including the 'app' module with its Java and resources. The main area displays the layout editor with a single 'TextView' containing the text 'Hello World!'. The 'Attributes' panel on the right shows the 'text' attribute is set to 'Hello World!', with a note suggesting to use the Resources manager. The 'Component Tree' panel shows the layout structure. The bottom navigation bar includes 'Design' and 'Text' tabs.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res layout activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

TODO Terminal Build Logcat

Source generation ended in 266 ms (15 minutes ago)

Activity Main XML Editor

Resources Dialog

Name: txtTitleText

Default: Electric Car Financing

txtTitleText: Electric Car Financing

android

VideoView_error_button: OK

VideoView_error_text_invalid_progress: Hierdie video is nie geldig vir stro...

VideoView_error_text_unknown: Kan nie hierdie video speel nie.

VideoView_error_title: Videoprobleem

autofill: Outovul

cancel: Kanselleer

copy: Kopieer

copyUrl: Kopieer URL

cut: Sny

defaultMsisdnAlphaTag: MSISDN1

EDIT TRANSLATIONS

OK Cancel

Attributes

id: mainTitleTextView

Declared Attributes

Layout

Common Attributes

All Attributes

Gradle

Device File Explorer

1. Select the txtTitleText string resource

2. Click OK

Detailed Description: This screenshot shows the Android Studio interface for managing resources. A 'Resources' dialog is open, showing a list of string resources. The 'txtTitleText' resource is selected and highlighted in blue. A yellow callout box with the text '1. Select the txtTitleText string resource' has an arrow pointing to the selected item. Another yellow callout box with the text '2. Click OK' has an arrow pointing to the 'OK' button at the bottom right of the dialog. The 'Attributes' tab on the right is selected, showing details for the 'mainTitleTextView' attribute, which is currently set to 'mainTitleTextView'. The 'Layout' tab is also visible. The overall process is described as selecting a string resource and then confirming the selection by clicking 'OK'.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Build Variants

Layout Captures

TODO Terminal Build Logcat

Source generation ended in 266 ms (15 minutes ago)

Activity Main XML Editor:

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The left sidebar displays the project structure, with the `app` module selected. The main area shows the layout editor with a vertical `LinearLayout` containing a single `TextView` labeled "Electric Car Financing". The palette on the left lists various UI components like `Text`, `Buttons`, `Widgets`, and `Layouts`. The right panel contains the `Attributes` inspector for the selected `TextView` (with ID `mainTitleTextView`), showing common attributes such as `text` (set to `@string/txtTitleText`), `textSize` (set to `14sp`), and `textColor` (set to a secondary color). A yellow callout box with the text "Use the Resources manager to set the title's text size" points to the `textSize` attribute.

Activity Main XML Editor:

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The left sidebar displays the project structure, with the `app` module selected. The main area shows the layout editor with a vertical `LinearLayout` containing a single `TextView` labeled "Electric Car Financing". The palette on the left lists various UI components like `Text`, `Buttons`, `Widgets`, and `Layouts`. The right panel contains the `Attributes` inspector for the selected `TextView` (with ID `mainTitleTextView`), showing common attributes such as `text` (set to `@string/txtTitleText`), `textSize` (set to `14sp`), and `textColor` (set to a secondary color). A yellow callout box with the text "Use the Resources manager to set the title's text size" points to the `textSize` attribute.

Activity Main XML Editor:

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The left sidebar displays the project structure, with the `app` module selected. The main area shows the layout editor with a vertical `LinearLayout` containing a single `TextView` labeled "Electric Car Financing". The palette on the left lists various UI components like `Text`, `Buttons`, `Widgets`, and `Layouts`. The right panel contains the `Attributes` inspector for the selected `TextView` (with ID `mainTitleTextView`), showing common attributes such as `text` (set to `@string/txtTitleText`), `textSize` (set to `14sp`), and `textColor` (set to a secondary color). A yellow callout box with the text "Use the Resources manager to set the title's text size" points to the `textSize` attribute.

Activity Main XML Editor:

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The left sidebar displays the project structure, with the `app` module selected. The main area shows the layout editor with a vertical `LinearLayout` containing a single `TextView` labeled "Electric Car Financing". The palette on the left lists various UI components like `Text`, `Buttons`, `Widgets`, and `Layouts`. The right panel contains the `Attributes` inspector for the selected `TextView` (with ID `mainTitleTextView`), showing common attributes such as `text` (set to `@string/txtTitleText`), `textSize` (set to `14sp`), and `textColor` (set to a secondary color). A yellow callout box with the text "Use the Resources manager to set the title's text size" points to the `textSize` attribute.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res layout activity_main.xml

1:Project

Resource Manager

2:Structure

Build Variants

Layout Captures

1:Project

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Resources

Add new resource

Project

Name: txtMainTitleTextSize

Default: 32sp

btnPaymentTextSize	35sp
btnPaymentTopMargin	28dp
imgOpeningTopMargin	10dp
imgYearsHeight	250dp
imgYearsTopMargin	20dp
imgYearsWidth	350dp
txtInterestTextSize	25sp
txtInterestTopMargin	15dp
txtLoanTextSize	25sp
txtLoanTopMargin	15dp
txtMainTitleTextSize	32sp
txtMainTitleTopMargin	20dp
txtMnthlyPaymentTopMargin	40dp
txtMonthlyPaymentTextSize	25sp
txtPaymentTitleTextSize	30sp
txtPaymentTitleTopMargin	30dp
yearSpinnerTopMargin	20dp
android	
app_icon_size	48dip
dialog_min_width_major	55%

1. Select the txtMainTitleTextSize dimension resource

2. Click OK

OK Cancel

Design Text

Attributes

Ab mainTitleTextView

id mainTitleTextView

Declared Attributes

Layout

- layout_width wrap_content
- layout_height wrap_content
- layout_weight
- visibility
- visibility

Common Attributes

- text @string/txtTitleText
- text
- contentDescription
- textAppearance @android:style/TextAp
- fontFamily
- typeface
- textSize 14sp
- lineSpacingExtra
- textColor @android:color/secondar
- textStyle B I Tr

All Attributes

- alpha
- autoLink
- autoSizeMaxTextSize
- autoSizeMinTextSize
- autoSizePresetSizes
- autoSizeStepGranul
- autoSizeTextType
- autoText
- background
- bufferType

Device File Explorer

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (15 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

activity_main.xml MainActivity.java

Palette Attributes

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "@string/t..."

Pixel 28 AppTheme Default (en-us) 26% + -

Electric Car Financing

Electric Car Financing

Attributes

Ab mainTitleTextView

id mainTitleTextView

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text @string/txtTitleText

text

contentDescription

textAppearance @android:style/TextAp

fontFamily

typeface

textSize en/txtMainTitleTextSize

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranul

autoSizeTextType

autoText

background

bufferType

Use the Resources manager to change the title text color to black

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (15 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res layout activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

Attributes

Ab mainTitleTextView
id mainTitleTextView

Declared Attributes

Layout

layout_width wrap_content
layout_height wrap_content
layout_weight
visibility
visibility

Common Attributes

text @string/txtTitleText
text
contentDescription
textAppearance @android:style/TextAp
fontFamily
typeface
textSize en/txtMainTitleTextSize
lineSpacingExtra
textColor @android:color/secondar
textStyle B I Tr

All Attributes

alpha
autoLink
autoSizeMaxTextSize
autoSizeMinTextSize
autoSizePresetSizes
autoSizeStepGranul
autoSizeTextType
autoText
background
bufferType

Design Text

Resources

Add new resource

Project

colorAccent
colorPrimary
colorPrimaryDark

Theme attributes

Expand the android system colors

No Preview

OK Cancel

Source generation ended in 266 ms (15 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res layout activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main

Resources

Add new resource

Name: black

Default

Attributes

Ab mainTitleTextView

id mainTitleTextView

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text @string/txtTitleText

text

contentDescription

textAppearance

fontFamily

typeface

textSize en/txtMainTitleTextSize

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

26%

Gradle

Design Text

1. Select the black android system color

2. Click OK

OK

Source generation ended in 266 ms (15 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

Java MainActivity.java

Attributes

Ab mainTitleTextView

id mainTitleTextView

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

text @string/txtTitleText

textAppearance @android:style/TextAp

fontFamily

typeface

textSize en/txtMainTitleTextSize

lineSpacingExtra

textColor @android:color/black

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranul

autoSizeTextType

autoText

background

bufferType

Pixel 28 AppTheme Default (en-us) 26% + -

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "@string/t..."

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (15 minutes ago)

Click to display the layout_width attribute values menu

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is selected. The left sidebar shows the project structure, including the 'app' module with its Java and resources. The main area displays the layout editor with a single TextView containing the text 'Electric Car Financing'. The right side shows the 'Attributes' panel for the selected TextView. A yellow callout box highlights the 'wrap_content' value in the 'layout_width' section, with the text 'Click to display the layout_width attribute values menu'.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

Java MainActivity.java

Attributes

Ab mainTitleTextView

id mainTitleTextView

Declared Attributes

Layout

layout_width wrap_content

layout_height match_parent

layout_weight wrap_content

visibility

text

textAppearance

fontFamily

typeface

textSize

lineSpacingExtra

textColor

textStyle

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "@string/t...

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (15 minutes ago)

The screenshot shows the Android Studio interface for editing the 'activity_main.xml' layout file. The layout consists of a single TextView with the text 'Electric Car Financing'. The TextView has an id of 'mainTitleTextView' and its layout_width is currently set to 'wrap_content'. A yellow callout box with the text 'Change the layout_width to match_parent to auto-resize the TextView to the layout's width' points to the 'wrap_content' dropdown in the Attributes panel. The Project, Java, and Layout tabs are visible at the top, and various toolbars and panels like the Palette, Component Tree, and Attributes panel are shown on the right.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

activity_main.xml MainActivity.java

Palette Attributes

Common Ab TextView
Text Button
Buttons ImageView
Widgets RecyclerView
Layouts <> <fragment>
Containers ScrollView
Google Switch
Legacy

Pixel 28 AppTheme Default (en-us) 26% 20% 24% 28% 32% 36% 40% 44% 48% 52% 56% 60% 64% 68% 72% 76% 80% 84% 88% 92% 96% 100%

Attributes

Ab mainTitleTextView TextView
layout_constraintTop_toParent
layout_gravity
layout_height wrap_content
layout_margin [?, ?, ?, ?, ?]
layout_weight
layout_width match_parent
lineHeight
lineSpacingExtra
lineSpacingMultiple
lines
linksClickable
longClickable
marqueeRepeatLimit
maxEms
maxHeight
maxLength
maxLines
maxWidth
minEms
minHeight
minLines
minWidth
nextFocusDown
nextFocusForward
nextFocusLeft
nextFocusRight
nextFocusUp
numeric
onClick
overScrollMode
padding [?, ?, ?, ?, ?]
password

Expand the Layout_Margin attribute group

Elect Yes, in prior lessons, we've set attributes in the Padding group.
What's the difference? Padding is spacing inside the UI component, while Layout_Margin is spacing between UI components.
So, this gives you more flexibility in setting your spacing between layout elements.

Component Tree

LinearLayout(vertical)
Ab mainTitleTextView- "@string/t..."

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (16 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

Attributes

Ab mainTitleTextView
layout_constraintTop_toParent
layout_gravity
layout_height
layout_margin
layout_marginLeft
layout_marginTop
layout_marginRight
layout_marginBottom
layout_weight
layout_width
lineHeight
lineSpacingExtra
lineSpacingMultiplier
lines
linksClickable
longClickable
marqueeRepeatLimit
maxEms
maxHeight
maxLength
maxLines
maxWidth
minEms
minHeight
minLines
minWidth
nextFocusDown
nextFocusForward
nextFocusLeft
nextFocusRight
nextFocusUp

Use the Resources manager to set the top margin

The screenshot shows the Android Studio interface with the 'activity_main.xml' layout file open. The layout contains a single TextView with the text 'Electric Car Financing'. The 'Attributes' panel on the right lists various properties for this TextView, including 'layout_constraintTop_toParent', which is highlighted with a yellow arrow and a callout bubble. A yellow callout bubble also points to the text 'Use the Resources manager to set the top margin'.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
- edu.udayton.electriccarfinancing (androidTest)
- edu.udayton.electriccarfinancing (test)

generatedJava

res

- drawable
- layout
- mipmap
- values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

2:Structure

3:Favorites

Build Variants

Layout Captures

activity_main.xml

MainActivity.java

Attributes

Name: txtMainTitleTopMargin

Default: 20dp

txtMainTitleTopMargin

1. Select the txtMainTitleTopMargin dimension resource

2. Click OK

OK Cancel

Resources

Add new resource

Project	
btnPaymentTextSize	35sp
btnPaymentTopMargin	28dp
imgOpeningTopMargin	10dp
imgYearsHeight	250dp
imgYearsTopMargin	20dp
imgYearsWidth	350dp
txtInterestTextSize	25sp
txtInterestTopMargin	15dp
txtLoanTextSize	25sp
txtLoanTopMargin	15dp
txtMainTitleTextSize	32sp
txtMainTitleTopMargin	40dp
txtMnthlyPaymentTopMargin	40dp
txtMonthlyPaymentTextSize	25sp
txtPaymentTitleTextSize	30sp
txtPaymentTitleTopMargin	30dp
yearSpinnerTopMargin	20dp
android	
app_icon_size	48dip
dialog_min_width_major	55%

Design Text

TODO Terminal Build Logcat

Event Log

Source generation ended in 266 ms (16 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
edu.udayton.electriccarfinancing (androidTest)
edu.udayton.electriccarfinancing (test)
generatedJava
res
drawable
layout
mipmap
values
colors.xml
dimens.xml
strings.xml
styles.xml
Gradle Scripts

activity_main.xml MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

Attributes

Ab mainTitleTextView
focusableInTouchMode
fontFamily
foreground
foregroundGravity
freezesText
gravity
hapticFeedbackEnabled
height
hint
id mainTitleTextView
imeActionId
imeActionButton
imeOptions
includeFontPadding
inputMethod
inputType
isScrollContainer
keepScreenOn
lastBaselineToBottomHei
layerType
layout_constraintBottom parent
layout_constraintLeft_toL parent
layout_constraintRight_toT parent
layout_constraintTop_toL parent
layout_gravity
layout_height wrap_content
layout_margin [?, ?, @dimen/txtMainTitleTopMargin, ?]
layout_margin
layout_marginLeft
layout_marginTop @dimen/txtMainTitleTopMargin
layout_marginRight
layout_marginBottom

Design Text

Electric Car Financing

Electric Car Financing

Expand the gravity attribute

Device File Explorer

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (17 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

Attributes

Ab mainTitleTextView
focusableInTouchMode
fontFamily
foreground
foregroundGravity
freezesText
gravity
bottom
clip_horizontal
center true
clip_vertical
start
right
center_horizontal
fill
fill_horizontal
top
left
center_vertical
fill_vertical
end
hapticFeedbackEnabled
height
hint
id mainTitleTextView
imeActionId
imeActionLabel
imeOptions
includeFontPadding
inputMethod
inputType
isScrollContainer
keepScreenOn

Select the Center gravity value

Component Tree

LinearLayout(vertical)
Ab mainTitleTextView- "@string/t..."

Pixel 28 AppTheme Default (en-us) 31% 100%

Electric Car Financing

Electric Car Financing

Source generation ended in 266 ms (17 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites Build Variants Layout Captures

Activity Main XML MainActivity.java

Attributes

Ab mainTitleTextView	TextView
focusableInTouchMode	<input checked="" type="checkbox"/>
fontFamily	<input type="button"/>
foreground	<input type="button"/>
foregroundGravity	<input type="button"/>
freezesText	<input checked="" type="checkbox"/>
gravity	<input checked="" type="checkbox"/> center
bottom	<input type="checkbox"/> false
clip_horizontal	<input type="checkbox"/> false
center	<input checked="" type="checkbox"/> true
clip_vertical	<input type="checkbox"/> false
start	<input type="checkbox"/> false
right	<input type="checkbox"/> false
center_horizontal	<input type="checkbox"/> false
fill	<input type="checkbox"/> false
fill_horizontal	<input type="checkbox"/> false
top	<input type="checkbox"/> false
left	<input type="checkbox"/> false
center_vertical	<input type="checkbox"/> false
fill_vertical	<input type="checkbox"/> false
end	<input type="checkbox"/> false
hapticFeedbackEnabled	<input checked="" type="checkbox"/>
height	<input type="button"/>
hint	<input type="button"/>
id	mainTitleTextView
imeActionId	<input type="button"/>
imeActionLabel	<input type="button"/>
imeOptions	<input checked="" type="checkbox"/>
includeFontPadding	<input checked="" type="checkbox"/>
inputMethod	<input type="button"/>
inputType	<input checked="" type="checkbox"/>
isScrollContainer	<input checked="" type="checkbox"/>
keepScreenOn	<input checked="" type="checkbox"/>

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Pixel 28 AppTheme Default (en-us) 31% 31%

Select the Containers Palette group

Component Tree

LinearLayout(vertical)
Ab mainTitleTextView- "@string/t..."

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (17 minutes ago)

Device File Explorer

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main

Design Text

Attributes

Gradle

Device File Explorer

Spinner

RecyclerView

ScrollView

HorizontalScrollView

NestedScrollView

ViewPager

CardView

AppBarLayout

NavigationView

BottomNavigation

Toolbar

TabLayout

TabItem

ViewStub

<include>

<fragment>

NavHostFragment

<view>

<requestFocus>

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "@string/t..."

Pixel 28 AppTheme Default (en-us) 31% 100%

Add a Spinner to the layout ...

Electric Car Financing

Electric Car Financing

Source generation ended in 266 ms (17 minutes ago)

Event Log

The screenshot shows the Android Studio layout editor for the 'activity_main.xml' file. The left sidebar displays the project structure, including the 'app' module with its Java and resources. The main area shows a dark blue preview window with the title 'Electric Car Financing'. On the right, the 'Attributes' panel lists properties for the currently selected 'mainTitleTextView' (id: mainTitleTextView), such as 'center' (checked), 'text' (set to 'Electric Car Financing'), and 'fontFamily' (set to 'sans-serif'). The top navigation bar includes tabs for 'Design' and 'Text', with 'Design' currently selected. The bottom status bar indicates 'Source generation ended in 266 ms (17 minutes ago)'.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

Design Text

Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Spinner RecyclerView ScrollView Horizontal NestedScrollView ViewPager CardView AppBarLayout NavigationView BottomNavigationView Toolbar TabLayout TabItem ViewStub <include> <fragment> NavHostFragment <view> <requestFocus>

Add to Design Favorite

... right below the title TextView

Pixel 28 AppTheme Default (en-us) 31% 31%

Electric Car Financing

Electric Car Financing

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "@string/t..."

Device File Explorer

Source generation ended in 266 ms (17 minutes ago)

Event Log

The screenshot shows the Android Studio interface for a project named 'ElectricCarFinancing'. The main window displays the 'activity_main.xml' layout file. On the left, the Project, Resource Manager, and Structure panes are visible. The main workspace shows the design view of the layout, which consists of a single 'LinearLayout' with a vertical orientation. Inside this layout, there is a 'TextView' with the text 'Electric Car Financing'. The palette on the left is currently set to the 'Containers' category, and a callout box highlights the 'Add to Design' button with the instruction '... right below the title TextView'. The code view for 'MainActivity.java' is shown at the top of the screen. The bottom navigation bar includes tabs for TODO, Terminal, Build, Logcat, and Event Log. The status bar at the bottom indicates that source generation ended in 266 ms (17 minutes ago).

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (17 minutes ago)

Android

app

manifests

java

edu.udayton.electriccarfinancing

MainActivity

edu.udayton.electriccarfinancing (androidTest)

edu.udayton.electriccarfinancing (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Palettes

Common

Text

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Layouts

Containers

Google

Legacy

Spinner

RecyclerView

ScrollView

HorizontalScrollView

NestedScrollView

ViewPager

CardView

AppBarLayout

NavigationView

BottomNavigationView

Toolbar

TabLayout

TabItem

ViewStub

<include>

<fragment>

NavHostFragment

<view>

<requestFocus>

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@+id/main_title_text_view"

spinner

Pixel 28 AppTheme Default (en-us) 31% Attributes spinner

Change the Spinner's ID yearsSpinner

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

spinnerMode dropdown

entries

background @+id/spinner_background

popupBackground @+id/popup_background

minWidth

dropDownWidth wrap_content

All Attributes

addStatesFromChildren

alpha

alwaysDrawnWithCache

animateLayoutChanges

animationCache

background @+id/spinner_background

clickable true

clipChildren

clipToPadding

contentDescription

descendantFocusability

drawingCacheQuality

dropDownSelector @+id/list_choice_selector

dropDownWidth wrap_content

Device File Explorer

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The main window displays the 'activity_main.xml' layout file. The layout consists of a title bar with the text 'Electric Car Financing' and a central spinner component. The spinner is currently labeled 'yearsSpinner' in the Attributes panel. A yellow callout box with the text 'Change the Spinner's ID' points to the spinner's ID in the Attributes panel. The Attributes panel lists various properties like layout_width, layout_height, and spinnerMode. The Component Tree shows the spinner is a child of a LinearLayout.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (17 minutes ago)

Android

app

manifests

java

edu.udayton.electriccarfinancing

MainActivity

edu.udayton.electriccarfinancing (androidTest)

edu.udayton.electriccarfinancing (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Palettes

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Spinner

RecyclerView

ScrollView

HorizontalScrollView

NestedScrollView

ViewPager

CardView

AppBarLayout

NavigationView

BottomNavigationView

Toolbar

TabLayout

TabItem

ViewStub

<include>

<fragment>

NavHostFragment

<view>

<requestFocus>

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@+id/main_title"

yearsSpinner

Pixel 28 AppTheme Default (en-us) 31% Attributes

yearsSpinner

id yearsSpinner

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

spinnerMode

dialog

dropdown

background

popupBackground

minWidth

dropDownWidth

All Attributes

addStatesFromChildren

alpha

alwaysDrawnWithCache

animateLayoutChanges

animationCache

background

clickable

clipChildren

clipToPadding

contentDescription

descendantFocusability

drawingCacheQuality

dropDownSelector

dropDownWidth

Device File Explorer

Electric Car Financing

Electric Car Financing

Using its attribute value menu, change the spinnerMode to dialog

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is selected. The layout consists of a title bar with the text 'Electric Car Financing' and a content area below it. In the content area, there is a text view with the placeholder text 'Using its attribute value menu, change the spinnerMode to dialog' and a spinner component. The spinner is currently set to 'dropdown' mode. A yellow callout box with a black border and a yellow arrow points to the 'spinnerMode' attribute in the attributes panel on the right. The tooltip inside the callout box reads: 'Using its attribute value menu, change the spinnerMode to dialog'. The attributes panel also lists other attributes like 'id' (set to 'yearsSpinner'), 'layout_width' (set to 'match_parent'), 'layout_height' (set to 'wrap_content'), and 'layout_weight'. The 'spinnerMode' dropdown menu is open, showing two options: 'dialog' (which is highlighted with a blue background and has a white arrow pointing to it) and 'dropdown'.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (18 minutes ago)

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - (androidTest)
 - (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml
- Gradle Scripts

activity_main.xml

MainActivity.java

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Spinner

RecyclerView

ScrollView

HorizontalScrollView

NestedScrollView

ViewPager

CardView

AppBarLayout

NavigationView

BottomNavigationView

Toolbar

TabLayout

TabItem

ViewStub

<include>

<fragment>

NavHostFragment

<view>

<requestFocus>

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

Pixel 28 AppTheme Default (en-us) 31% Attributes

yearsSpinner

id yearsSpinner

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

spinnerMode dialog

@array/years

background @android:drawable/spinner_bac

popupBackground @android:drawable/popup_bac

minWidth

dropDownWidth wrap_content

All Attributes

addStatesFromChildren

alpha

alwaysDrawnWithCache

animateLayoutChanges

animationCache

background @android:drawable/spinner_bac

clickable true

clipChildren

clipToPadding

contentDescription

descendantFocusability

drawingCacheQuality

dropDownSelector @android:drawable/list_choice_

dropDownWidth wrap_content

Device File Explorer

Electric Car Financing

Three

Add the years string-array as the Spinner's entries

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is being edited. In the design view, there is a white rectangular area with the title 'Electric Car Financing' at the top. Inside this area, a spinner is visible with the text 'Three' currently selected. To the right of the spinner, a yellow callout bubble contains the text 'Add the years string-array as the Spinner's entries'. An arrow from this callout points to the 'spinnerMode' attribute in the properties panel on the right. The properties panel shows various attributes for the spinner, with 'spinnerMode' set to 'dialog'. Other visible attributes include 'id' (set to 'yearsSpinner'), 'layout_width' (set to 'match_parent'), and 'layout_height' (set to 'wrap_content'). The 'spinnerMode' attribute is highlighted with a blue selection bar.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Spinner RecyclerView ScrollView HorizontalScrollView NestedScrollView ViewPager CardView AppBarLayout NavigationView BottomNavigationView Toolbar TabLayout TabItem ViewStub <include> <fragment> NavHostFragment <view> <requestFocus>

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@+id/mainTitleText" yearsSpinner

Design Text

Expand the layout_margin attributes

Electric Car Financing

Electric Car Financing

Three

Attributes

yearsSpinner

layout_height wrap_content

layout_margin [?, ?, ?, ?, ?]

layout_weight

layout_width match_parent

listfooter

listheader

listitem

longClickable

minHeight

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

onClick

overScrollMode

padding [?, ?, ?, ?, ?]

persistentDrawingCache

popupBackground @android:drawable/popup_bac

prompt

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollX

scrollY

scrollbarAlwaysDrawHoriz

scrollbarAlwaysDrawVert

Device File Explorer

Source generation ended in 266 ms (18 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Spinner RecyclerView ScrollView HorizontalScrollView NestedScrollView ViewPager CardView AppBarLayout NavigationView BottomNavigationView Toolbar TabLayout TabItem ViewStub <include> <fragment> NavHostFragment <view> <requestFocus>

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@+string/t..."

yearsSpinner

Pixel 28 AppTheme Default (en-us) 31% Attributes

yearsSpinner

layout_height wrap_content

layout_margin [?, ?, ?, ?, ?]

layout_margin

layout_marginLeft

layout_marginTop

layout_marginRight

layout_marginBottom

layout_weight

layout_width match_parent

listfooter

listheader

listitem

longClickable

minHeight

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

onClick

overScrollMode

padding [?, ?, ?, ?, ?]

persistentDrawingCache

popupBackground @android:drawable/popup_bac...

prompt

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

Use the Resources manager to set the top margin

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (18 minutes ago)

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The main window displays the 'activity_main.xml' layout. The layout consists of a title bar with the text 'Electric Car Financing' and a spinner below it. The spinner has the value 'Three' displayed. In the component tree on the left, the spinner is selected. On the right, the attributes panel shows various properties for the spinner, including 'layout_height', 'layout_margin', and 'layout_weight'. A yellow callout box with the text 'Use the Resources manager to set the top margin' points to the 'layout_margin' section in the attributes panel.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

3:Favorites

Build Variants

Layout Captures

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Resources

Add new resource

Name: yearSpinnerTopMargin

Default: 20dp

Project	
btnPaymentTextSize	35sp
btnPaymentTopMargin	28dp
imgOpeningTopMargin	10dp
imgYearsHeight	250dp
imgYearsTopMargin	20dp
imgYearsWidth	350dp
txtInterestTextSize	25sp
txtInterestTopMargin	15dp
txtLoanTextSize	25sp
txtLoanTopMargin	15dp
txtMainTitleTextSize	32sp
txtMainTitleTopMargin	20dp
txtMnthlyPaymentTopMargin	40dp
txtMonthlyPaymentTextSize	25sp
txtPaymentTitleTextSize	30sp
txtPaymentTitleTopMargin	30dp
yearSpinnerTopMargin	20dp
android	
app_icon_size	48dip
dialog_min_width_major	55%

OK Cancel

1. Select the yearSpinnerTopMargin dimension resource

2. Click OK

Attributes

yearsSpinner

- layout_height: wrap_content
- layout_margin: [?, ?, ?, ?, ?]
- layout_marginLeft:
- layout_marginTop: 20dp
- layout_marginRight:
- layout_marginBottom:
- layout_weight:
- layout_width: match_parent
- listfooter:
- listheader:
- listitem:
- longClickable: false
- minHeight:
- minWidth:
- nextFocusDown:
- nextFocusForward:
- nextFocusLeft:
- nextFocusRight:
- nextFocusUp:
- onClick:
- overScrollMode:
- padding: [?, ?, ?, ?, ?]
- persistentDrawingCache: false
- popupBackground: @android:drawable/popup_bac...
- prompt:
- requiresFadingEdge:
- rotation:
- rotationX:
- rotationY:
- saveEnabled: false
- scaleX:

Device File Explorer

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

Attributes

Spinner yearsSpinner nextFocusForward U nextFocusLeft nextFocusRight nextFocusUp onClick overScrollMode padding [?, ?, ?, ?, ?] persistentDrawingCache prompt popupBackground @android:drawable/popup_bac requiresFadingEdge rotation rotationX rotationY saveEnabled scaleX scaleY scrollX scrollY scrollbarAlwaysDrawHor scrollbarAlwaysDrawVert scrollbarDefaultDelayBef 400 scrollbarFadeDuration 250 scrollbarSize 4dp scrollbarStyle scrollbarThumbHorizontal @android:drawable/scrollbar_ha scrollbarThumbVertical @android:drawable/scrollbar_ha scrollbarTrackHorizontal @null scrollbarTrackVertical @android:drawable/config_sco scrollbars soundEffectsEnabled spinnerMode dialog

Use the Resources manager to set the Spinner's prompt

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The layout consists of a single `LinearLayout` with a vertical orientation. Inside this layout are a `mainTitleTextView` (containing the text "Electric Car Financing") and a `yearsSpinner` (containing the text "Three"). The `yearsSpinner` is currently selected in the palette. The Attributes panel on the right shows various properties for the spinner, including `prompt`, which is currently set to `@android:drawable/popup_bac`. A yellow callout box with the text "Use the Resources manager to set the Spinner's prompt" points to the `prompt` field in the Attributes panel. The preview window shows the spinner with its dropdown open, displaying the value "Three".

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res layout activity_main.xml

1:Project Resource Manager

Android

app manifests java edu.udayton.electriccarfinancing MainActivity edu.udayton.electriccarfinancing (androidTest) edu.udayton.electriccarfinancing (test) generatedJava res drawable layout mipmap values colors.xml dimens.xml strings.xml styles.xml Gradle Scripts

2:Structure Favorites Build Variants Layout Captures

activity_main.xml MainActivity.java

Resources

Add new resource

Name: prompt1

Default Number of Years

Project

app_name	Electric Car Financing
btnPaymentLabel	Car Payment
hint2	Car Loan Amount
hint3	Interest Rate
imgOpeningDescription	App Opening Image
imgYearsDescription	Number of Years Image
prompt1	Number of Years
txtMonthlyPaymentText	Monthly Payment
txtTitleText	Electric Car Financing
android	
VideoView_error_button	OK
VideoView_error_text_invalid_progress	Hierdie video is nie geldig vir stro...
VideoView_error_text_unknown	Kan nie hierdie video speel nie.
VideoView_error_title	Videoprobleem
autofill	Outovul
cancel	Kanselleer
copy	Kopieer
copyUrl	Kopieer URL
cut	Sny
defaultMsisdnAlphaTag	MSISDN1

Component

Line

Ab

Y

1. Select the prompt1 string resource

2. Click OK

EDIT TRANSLATIONS

OK Cancel

Attributes

yearsSpinner nextFocusForward U
nextFocusLeft
nextFocusRight
nextFocusUp
onClick overScrollMode
padding [?, ?, ?, ?, ?]
persistentDrawingCache □
popupBackground @android:drawable/popup_bacl
prompt □
requiresFadingEdge □
rotation
rotationX
rotationY
saveEnabled □
scaleX
scaleY
scrollX
scrollY
scrollbarAlwaysDrawHorizon □
scrollbarAlwaysDrawVert □
scrollbarDefaultDelayBef 400
scrollbarFadeDuration 250
scrollbarSize 4dp
scrollbarStyle □
scrollbarThumbHorizontal @android:drawable/scrollbar_ha
scrollbarThumbVertical @android:drawable/scrollbar_ha
scrollbarTrackHorizontal @null
scrollbarTrackVertical @android:drawable/config_sco
scrollbars □
soundEffectsEnabled □
spinnerMode dialog

Design Text

TODO Terminal Build Logcat

Source generation ended in 266 ms (19 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

Attributes

Gradle

Source generation ended in 266 ms (19 minutes ago)

Select the Text Palette group

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView Ab Plain Text Ab Password Ab Password (Numer... Ab E-mail Ab Phone Ab Postal Address Ab Multiline Text Ab Time Ab Date Ab Number Ab Number (Signed) Ab Number (Decimal) Ab AutoCompleteTe... Ab MultiAutoCompl... Ab CheckedTextV... Ab TextInputLayout

Component Tree

LinearLayout(vertical)
Ab mainTitleTextView- "@string/t..."
yearsSpinner

Electric Car Financing

Electric Car Financing

Three

Attributes

yearsSpinner nextFocusForward U nextFocusLeft nextFocusRight nextFocusUp onClick overScrollMode padding [?, ?, ?, ?, ?] persistentDrawingCache □ popupBackground @android:drawable/popup_bacl prompt @string/prompt1 requiresFadingEdge □ rotation rotationX rotationY saveEnabled □ scaleX scaleY scrollX scrollY scrollbarAlwaysDrawHori □ scrollbarAlwaysDrawVert □ scrollbarDefaultDelayBef 400 scrollbarFadeDuration 250 scrollbarSize 4dp scrollbarStyle scrollbarThumbHorizontal @android:drawable/scrollbar_ha scrollbarThumbVertical @android:drawable/scrollbar_ha scrollbarTrackHorizontal @null scrollbarTrackVertical @android:drawable/config_sco scrollbars □ soundEffectsEnabled □ spinnerMode dialog

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

Activity Main XML MainActivity.java

Attributes

Spinner yearsSpinner nextFocusForward U nextFocusLeft nextFocusRight nextFocusUp onClick overScrollMode padding [?, ?, ?, ?, ?] persistentDrawingCache popupBackground @android:drawable/popup_bacl prompt @string/prompt1 requiresFadingEdge rotation rotationX rotationY saveEnabled scaleX scaleY scrollX scrollY scrollbarAlwaysDrawHori scrollbarAlwaysDrawVert scrollbarDefaultDelayBef 400 scrollbarFadeDuration 250 scrollbarSize 4dp scrollbarStyle scrollbarThumbHorizontal @android:drawable/scrollbar_ha scrollbarThumbVertical @android:drawable/scrollbar_ha scrollbarTrackHorizontal @null scrollbarTrackVertical @android:drawable/config_sco scrollbars soundEffectsEnabled spinnerMode dialog

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView Ab Plain Text Ab Password Ab Password (Numer... Ab E-mail Ab Phone Ab Postal Address Ab Multiline Text Ab Time Ab Date Ab Number Ab Number (Signed) Ab Number (Decimal) Ab AutoCompleteTe... Ab MultiAutoCompl... Ab CheckedTextV Ab TextInputLayout

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "@string/t..."

yearsSpinner

Design Text

Electric Car Financing

Electric Car Financing

Three

Add a decimal (floating-point) text field for the loan amount ...

A yellow callout box with a black border and a black arrow points from the text "Add a decimal (floating-point) text field for the loan amount ..." to the "Ab Number (Decimal)" item in the palette.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

TODO Terminal Build Logcat

Source generation ended in 266 ms (19 minutes ago)

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml
- Gradle Scripts

activity_main.xml

MainActivity.java

Attributes

Spinner

yearsSpinner

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

onClick

overScrollMode

padding

[?, ?, ?, ?, ?]

persistentDrawingCache

popupBackground

@android:drawable/popup_bac1

prompt

@string/prompt1

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollX

scrollY

scrollbarAlwaysDrawHori

scrollbarAlwaysDrawVert

scrollbarDefaultDelayBef

400

scrollbarFadeDuration

250

scrollbarSize

4dp

scrollbarStyle

scrollbarThumbHorizontal

@android:drawable/scrollbar_ha

scrollbarThumbVertical

@android:drawable/scrollbar_ha

scrollbarTrackHorizontal

@null

scrollbarTrackVertical

@android:drawable/config_sco

scrollbars

soundEffectsEnabled

spinnerMode

dialog

Pixel 28 AppTheme Default (en-us) 31% 100%

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView Ab Plain Text Ab Password Ab Password (Numer... Ab E-mail Ab Phone Ab Postal Address Ab Multiline Text Ab Time Ab Date Ab Number Ab Number (Signed) Ab Number (Decimal) Ab AutoCompleteTe... Ab MultiAutoCompl... Ab CheckedTextV... Ab TextInputLayout

Three

Add to Design

... right below the yearsSpinner

Component Tree

LinearLayout(vertical)

- Ab mainTitleTextView- "@string/t..."
- yearsSpinner

Design Text

Device File Explorer

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites

Activity Main XML

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView Ab Plain Text Ab Password Ab Password (Numer...) Ab E-mail Ab Phone Ab Postal Address Ab Multiline Text Ab Time Ab Date Ab Number Ab Number (Signed) Ab Number (Decimal) Ab AutoCompleteTe... Ab MultiAutoCompl... Ab CheckedTextView Ab TextInputLayout

Component Tree

LinearLayout(vertical)

Ab mainTitleTextView- "@string/t..."

yearsSpinner

Ab editText(Number (Decimal))

Attributes

Declared Attributes

Layout

layout_width layout_height layout_weight visibility visibility

Common Attributes

inputType hint style singleLine selectAllOnFocus text text contentDescription textAppearance typeface textSize lineSpacingExtra textColor textStyle

All Attributes

alpha autoLink autoText background bufferType capitalize

Design Text

Change the text field's ID

txtLoan

Source generation ended in 266 ms (20 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

txtLoan

id: txtLoan

Declared Attributes

Layout

layout_width: match_parent

layout_height: wrap_content

layout_weight:

visibility:

Common Attributes

inputType: numberDecimal

hint:

style: @style/Widget.AppCompat.E

singleLine:

selectAllOnFocus:

text:

text:

contentDescription:

textAppearance:

typeface:

textSize: 18sp

lineSpacingExtra:

textColor: @android:color/text_color_prim

textStyle: B I Tr

All Attributes

alpha:

autoLink:

autoText:

background: @android:drawable/edit_text_m

bufferType:

capitalize:

Use the Resources manager to set the text field's hint

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number (Decimal))

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (20 minutes ago)

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is selected. The layout consists of a title bar with the text 'Electric Car Financing' and a single text input field below it. The text input field is currently empty. In the properties panel on the right, the 'txtLoan' component is selected, and its attributes are displayed. A yellow callout box highlights the 'hint' attribute, with the text 'Use the Resources manager to set the text field's hint' inside it. This indicates that the hint for the text input field is currently being defined directly in the XML layout file.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites

Activity Main XML

Palette: Resources, Common, Text, Button, Widget, Layouts, Container, Google, Legacy

Resources

Add new resource

Name: hint2

Default Car Loan Amount

1. Select the hint2 string resource

2. Click OK

Attributes

txtLoan

id txtLoan

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

inputType numberDecimal

hint

style @style/Widget.AppCompat.E

singleLine

selectAllOnFocus

text

text

contentDescription

textAppearance

typeface

textSize 18sp

lineSpacingExtra

textColor @android:color/text_color_prim

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/edit_text_m

bufferType

capitalize

31% + X A

Gradle

Source generation ended in 266 ms (20 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

txtLoan

id: txtLoan

Declared Attributes

Layout

layout_width: match_parent

layout_height: wrap_content

layout_weight:

visibility:

Common Attributes

inputType: numberDecimal

hint: @string/hint2

style: @style/Widget.AppCompat.E

singleLine:

selectAllOnFocus:

text:

textAppearance:

typeface:

textSize: 18sp

lineSpacingExtra:

textColor: @android:color/text_color_prime

textStyle:

All Attributes

alpha:

autoLink:

autoText:

background: @android:drawable/edit_text_m

bufferType:

capitalize:

Use the Resources manager to set the text field's text size

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel: 28

AppTheme: Default (en-us)

31%

Attributes

txtLoan

id: txtLoan

Declared Attributes

Layout

layout_width: match_parent

layout_height: wrap_content

layout_weight:

visibility:

Common Attributes

inputType: numberDecimal

hint: @string/hint2

style: @style/Widget.AppCompat.E

singleLine:

selectAllOnFocus:

text:

textAppearance:

typeface:

textSize: 18sp

lineSpacingExtra:

textColor: @android:color/text_color_prime

textStyle:

All Attributes

alpha:

autoLink:

autoText:

background: @android:drawable/edit_text_m

bufferType:

capitalize:

Use the Resources manager to set the text field's text size

Device File Explorer

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (21 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites

Activity Main XML

Attributes

txtLoan

id txtLoan

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

Common Attributes

inputType numberDecimal

hint @string/hint2

style @style/Widget.AppCompat.E

singleLine

selectAllOnFocus

text

text

contentDescription

textAppearance @android:style/TextAppearance

typeface

textSize 18sp

lineSpacingExtra

textColor @android:color/text_color_prim

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/edit_text_m

bufferType

capitalize

Gradle

Resource

Add new resource

Name: txtLoanTextSize

Default 25sp

txtLoanTextSize 25sp

txtLoanTopMargin 15dp

txtMainTitleTextSize 32sp

txtMainTitleTopMargin 20dp

txtMnonthlyPaymentTopMargin 40dp

txtMonthlyPaymentTextSize 25sp

txtPaymentTitleTextSize 30sp

txtPaymentTitleTopMargin 30dp

yearSpinnerTopMargin 20dp

android

app_icon_size 48dip

dialog_min_width_major 55%

1. Select the txtLoanTextSize dimension resource

2. Click OK

OK Cancel

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (21 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

Activity Main XML

MainActivity.java

Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Pixel 28 AppTheme Default (en-us) 31% 31%

Expand the layout_margin attributes

Electric Car Financing

Three

Car Loan Amount

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number (Decimal))

Layout Margin Attributes

layout_height	wrap_content
layout_margin	[?, ?, ?, ?, ?]
layout_weight	
layout_width	match_parent
lineSpacingExtra	
lineSpacingMultiplier	
lines	
linksClickable	
longClickable	
marqueeRepeatLimit	
maxEms	
maxHeight	
maxLength	
maxLines	
maxWidth	
minEms	
minHeight	
minLines	
minWidth	
nextFocusDown	
nextFocusForward	
nextFocusLeft	
nextFocusRight	
nextFocusUp	
numeric	
onClick	
overScrollMode	
padding	[?, ?, ?, ?, ?]
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (21 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

txtLoan

layout_height wrap_content

layout_margin [?, ?, ?, ?, ?]

layout_margin

layout_marginLeft

layout_marginTop

layout_marginRight

layout_marginBottom

layout_weight

layout_width match_parent

lineSpacingExtra

lineSpacingMultiplier

lines

linksClickable

longClickable

marqueeRepeatLimit

maxEms

maxHeight

maxLength

maxLines

maxWidth

minEms

minHeight

minLines

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

numeric

onClick

overScrollMode

Gradle

Device File Explorer

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number (Decimal))

Design Text

Electric Car Financing

Electric Car Financing

Three

Car Loan Amount

Use the Resources manager to set the top margin

The screenshot shows the Android Studio interface for editing the layout file 'activity_main.xml'. The left sidebar displays the project structure, with the 'app' module selected. The main area shows the 'Design' tab of the Layout Editor, where a simple UI is being created. It consists of a title 'Electric Car Financing', a subtitle 'Three', and a text input field labeled 'Car Loan Amount'. The text input field has a warning icon. The right side of the screen shows the 'Attributes' panel for the selected 'txtLoan' widget, listing various properties like layout_height, layout_margin, and layout_width. A yellow callout box with the text 'Use the Resources manager to set the top margin' points to the 'layout_margin' row in the Attributes panel. The bottom navigation bar includes tabs for TODO, Terminal, Build, Logcat, and Event Log.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

2:Structure Favorites Build Variants Layout Captures

activity_main.xml

MainActivity.java

Attributes

Name: txtLoanTopMargin

Default: 15dp

txtLoanTopMargin: 15dp

1. Select the txtLoanTopMargin dimension resource

2. Click OK

OK Cancel

Resources

Add new resource

Project

btnPaymentTextSize	35sp
btnPaymentTopMargin	28dp
imgOpeningTopMargin	10dp
imgYearsHeight	250dp
imgYearsTopMargin	20dp
imgYearsWidth	350dp
txtInterestTextSize	25sp
txtInterestTopMargin	15dp
txtLoanTextSize	25sp
txtLoanTopMargin	15dp
txtMainTitleTextSize	32sp
txtMainTitleTopMargin	20dp
txtMnthlyPaymentTopMargin	40dp
txtMonthlyPaymentTextSize	25sp
txtPaymentTitleTextSize	30sp
txtPaymentTitleTopMargin	30dp
yearSpinnerTopMargin	20dp
android	
app_icon_size	48dip
dialog_min_width_major	55%

Design Text

TODO Terminal Build Logcat

Source generation ended in 266 ms (21 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2:Favorites

Build Variants

Component Tree

Design Text

Attributes

Gradle

Device File Explorer

Activity Main XML Editor:

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The layout consists of a white fragment on the left and a dark blue fragment on the right. The title bar for both fragments is "Electric Car Financing". The white fragment contains a spinner with the value "Three" and a text input field labeled "Car Loan Amount". The text input field has a yellow tooltip that says "Add a decimal (floating-point) text field for the interest rate ...". The "Text" tab is selected at the bottom. The "Attributes" panel on the right lists numerous properties for the selected `txtLoan` EditText widget, such as `layout_height`, `layout_margin`, and `layout_weight`. The "Component Tree" panel shows the structure of the layout, including a `LinearLayout` containing a `mainTitleTextView` and a `yearsSpinner`, and the `txtLoan` widget itself.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2:Favorites

Build Variants

Component Tree

Design Text

Attributes

Gradle

Device File Explorer

Activity Main XML Editor:

- Project Structure:** Shows the project tree with modules like app, manifests, java, and resources.
- Toolbars:** Standard Android Studio toolbars for navigation, search, and file operations.
- Left Sidebar:** Resource Manager, Layout Captures, and Build Variants.
- Central Area:** Displays the XML layout file (`activity_main.xml`) and its corresponding visual representation.
- Bottom Navigation:** Design and Text tabs.
- Bottom Status Bar:** TODO, Terminal, Build, Logcat, and Event Log.

The XML code for `activity_main.xml` is as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/mainTitleTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Electric Car Financing"/>
    <Spinner
        android:id="@+id/yearsSpinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <EditText
        android:id="@+id/txtLoan"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:inputType="numberDecimal"/>
</LinearLayout>
```

The visual representation shows a title bar "Electric Car Financing", a spinner labeled "Three", and an input field labeled "Car Loan Amount". A context menu is open over the input field, with a yellow callout pointing to the "Add to Design" option. The callout contains the text "... right below the one for the loan amount".

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites

Activity Main XML

MainActivity.java

Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Pixel 28 AppTheme Default (en-us) 31% Attributes

Change the text field's ID

Declared Attributes

Layout

Common Attributes

Component Tree

Design Text

Source generation ended in 266 ms (22 minutes ago)

Event Log

The screenshot shows the Android Studio interface for editing the layout file 'activity_main.xml'. The left sidebar displays the project structure, with the 'app' module selected. The main area shows the layout editor with two preview panes: 'Design' and 'Text'. In the Design view, there is a title bar 'Electric Car Financing', a subtitle 'Three', and a section labeled 'Car Loan Amount' containing two text input fields. The bottom-left of the design view has a yellow callout box with the text 'Change the text field's ID'. The right side of the screen contains the 'Attributes' panel, which lists numerous properties for the selected text input field, such as 'inputType' set to 'numberDecimal', 'hint' set to '@style/Widget.AppCompat.E', and 'textColor' set to '@android:color/text_color_prim'. The 'Declared Attributes' section at the top of the attributes panel also shows the current ID 'txtInterest'.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites

Activity Main XML > MainActivity.java

Attributes

txtInterest

id: txtInterest

Declared Attributes

Layout

layout_width: match_parent

layout_height: wrap_content

layout_weight:

visibility:

Common Attributes

inputType: numberDecimal

hint: @style/Widget.AppCompat.EditText

style: @style/Widget.AppCompat.EditText

singleLine:

selectAllOnFocus:

text:

textAppearance:

typeface:

textSize: 18sp

lineSpacingExtra:

textColor: @android:color/text_color_prim

textStyle: B I Tr

All Attributes

alpha:

autoLink:

autoText:

background: @android:drawable/edit_text_m

bufferType:

capitalize:

Use the Resources manager to set the text field's hint

Electric Car Financing

Electric Car Financing

Three

Car Loan Amount

Component Tree

LinearLayout(vertical)

- mainTitleTextView- "@string/t...
- yearsSpinner
- txtLoan(Number (Decimal))
- txtInterest(Number (Decim...)

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (22 minutes ago)

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is being edited. The layout contains a title bar with 'Electric Car Financing', a spinner labeled 'Three', and two text input fields. The first text input field is labeled 'Car Loan Amount' and the second is labeled 'Interest'. In the attributes panel, the 'txtInterest' field's 'id' attribute is set to 'txtInterest'. A yellow callout box highlights the 'hint' attribute in the attributes panel, with the text 'Use the Resources manager to set the text field's hint'. The component tree on the left shows the structure of the layout.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

TODO Terminal Build Logcat

Source generation ended in 266 ms (22 minutes ago)

Resources

Add new resource

Project	
app_name	Electric Car Financing
btnPaymentLabel	Car Payment
hint2	Car Loan Amount
hint3	Interest Rate
imgOpeningDescription	App Opening Image
imgYearsDescription	Number of Years Image
prompt1	Number of Years
txtMonthlyPaymentText	Monthly Payment
txtTitleText	Electric Car Financing
android	
VideoView_error_button	OK
VideoView_error_text_invalid_progress	Hierdie video is nie geldig vir stro...
VideoView_error_text_unknown	Kan nie hierdie video speel nie.
VideoView_error_title	Videoprobleem
autofill	Outovul
cancel	Kanselleer
copy	Kopieer
copyUrl	Kopieer URL
cut	Sny
defaultMsisdnAlphaTag	MSISDN1

Attributes

txtInterest

Declared Attributes

Layout

layout_width: match_parent

layout_height: wrap_content

layout_weight:

visibility:

Common Attributes

inputType: numberDecimal

hint:

style: @style/Widget.AppCompat.E

singleLine:

selectAllOnFocus:

text:

textAppearance

typeface:

textSize: 18sp

lineSpacingExtra:

textColor: @android:color/text_color_prime

textStyle: B I Tr

All Attributes

alpha:

autoLink:

autoText:

background: @android:drawable/edit_text_m

bufferType:

capitalize:

1. Select the hint3 string resource

2. Click OK

OK Cancel

EDIT TRANSLATIONS

Device File Explorer

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

txtInterest

id: txtInterest

Declared Attributes

Layout

layout_width: match_parent

layout_height: wrap_content

layout_weight:

visibility:

Common Attributes

inputType: numberDecimal

hint: @string/hint3

style: @style/Widget.AppCompat.E

singleLine:

selectAllOnFocus:

text:

textAppearance:

typeface:

textSize: 18sp

lineSpacingExtra:

textColor: @android:color/text_color_prime

textStyle:

All Attributes

alpha:

autoLink:

autoText:

background: @android:drawable/edit_text_m

bufferType:

capitalize:

Use the Resources manager to set the text field's text size

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number(Decimal))

txtInterest(Number(Decimal))

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (22 minutes ago)

```
<EditText android:id="@+id/txtInterest" android:layout_width="match_parent" android:layout_height="wrap_content" android:inputType="numberDecimal" android:hint="@string/hint3" android:style="@style/Widget.AppCompat.EditText" android:textSize="18sp" />
```

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites

Activity Main XML

Palette: Text, Button, Widget, Layouts, Container, Google, Legacy

Resources

Add new resource

Name: txtInterestTextSize

Default: 25sp

txtInterestTextSize: 25sp

txtInterestTopMargin: 15dp

txtLoanTextSize: 25sp

txtLoanTopMargin: 15dp

txtMainTitleTextSize: 32sp

txtMainTitleTopMargin: 20dp

txtMnthlyPaymentTopMargin: 40dp

txtMonthlyPaymentTextSize: 25sp

txtPaymentTitleTextSize: 30sp

txtPaymentTitleTopMargin: 30dp

yearSpinnerTopMargin: 20dp

android

app_icon_size: 48dip

dialog_min_width_major: 55%

Attributes

id: txtInterest

Declared Attributes

Layout

Common Attributes

All Attributes

OK Cancel

1. Select the txtInterestTextSize dimension resource

2. Click OK

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (22 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure Favorites Build Variants Layout Captures

Activity Main XML MainActivity.java

Attributes

txtInterest layerType layout_gravity layout_height layout_margin [?, ?, ?, ?, ?] layout_weight layout_width lineSpacingExtra lineSpacingMultiplier lines linksClickable longClickable marqueeRepeatLimit maxEms maxHeight maxLength maxLines maxWidth minEms minHeight minLines minWidth nextFocusDown nextFocusForward nextFocusLeft nextFocusRight nextFocusUp numeric onClick overScrollMode padding [?, ?, ?, ?, ?] password phoneNumber

Pixel 28 AppTheme Default (en-us) 31% 31%

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView Ab Plain Text Ab Password Ab Password (Numer... Ab E-mail Ab Phone Ab Postal Address Ab Multiline Text Ab Time Ab Date Ab Number Ab Number (Signed) Ab Number (Decimal) Ab AutoCompleteTe... Ab MultiAutoCompl... Ab CheckedTextV Ab TextInputLayout

Component Tree

LinearLayout(vertical)

- Ab mainTitleTextView- "@string/t..."
- yearsSpinner
- Ab txtLoan(Number (Decimal))
- Ab txtInterest(Number (Decim...)

Design Text

Source generation ended in 266 ms (22 minutes ago)

Event Log

Expand the layout_margin attributes

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

TODO Terminal Build Logcat

Source generation ended in 266 ms (22 minutes ago)

Activity Main XML Editor:

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The layout consists of two fragments. The left fragment has a title "Electric Car Financing" and contains two text input fields labeled "Car Loan Amount" and "Interest Rate". The right fragment also has a title "Electric Car Financing" and contains three text input fields labeled "Three", "Car Loan Amount", and "Interest Rate".

Palette:

- Common
- Text
- Buttons
- Widgets
- Layouts
- Containers
- Google
- Legacy

Selected item: Ab Number (Decimal)

Component Tree:

- LinearLayout(vertical)
 - mainTitleTextView- "@string/t..."
 - yearsSpinner
 - txtLoan(Number (Decimal))
 - txtInterest(Number (Decim...))

Design Tab

Attributes:

txtInterest	EditText
layerType	dropdown
layout_gravity	center
layout_height	wrap_content
layout_margin	[?, ?, ?, ?, ?]
layout_margin	0dp
layout_marginLeft	0dp
layout_marginTop	0dp
layout_marginRight	0dp
layout_marginBottom	0dp
layout_weight	1.0
layout_width	match_parent
lineSpacingExtra	0dp
lineSpacingMultiplier	1.0
lines	1
linksClickable	false
longClickable	false
marqueeRepeatLimit	0
maxEms	1.0
maxHeight	10000dp
maxLength	10000
maxLines	1
maxWidth	10000dp
minEms	0.0
minHeight	0dp
minLines	1
minWidth	0dp
nextFocusDown	...
nextFocusForward	...
nextFocusLeft	...
nextFocusRight	...
nextFocusUp	...
numeric	...

Use the Resources manager to set the top margin

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res layout activity_main.xml

1:Project Resource Manager

Android

app manifests java edu.udayton.electriccarfinancing MainActivity edu.udayton.electriccarfinancing (androidTest) edu.udayton.electriccarfinancing (test) generatedJava res drawable layout mipmap values colors.xml dimens.xml strings.xml styles.xml Gradle Scripts

Resources

Add new resource

Project

btnPaymentTextSize	35sp
btnPaymentTopMargin	28dp
imgOpeningTopMargin	10dp
imgYearsHeight	250dp
imgYearsTopMargin	20dp
imgYearsWidth	350dp
txtInterestTextSize	25sp
txtInterestTopMargin	15dp
txtLoanTextSize	25sp
txtLoanTopMargin	15dp
txtMainTitleTextSize	32sp
txtMainTitleTopMargin	20dp
txtMnthlyPaymentTopMargin	40dp
txtMonthlyPaymentTextSize	25sp
txtPaymentTitleTextSize	30sp
txtPaymentTitleTopMargin	30dp
yearSpinnerTopMargin	20dp
android	
app_icon_size	48dip
dialog_min_width_major	55%

Name: txtInterestTopMargin

Default 15dp

Attributes

Ab	txtInterest
layerType	
►	layout_gravity
layout_height	wrap_content
►	layout_margin
layout_margin	[?, ?, ?, ?, ?]
layout_marginLeft	
layout_marginTop	
layout_marginRight	
layout_marginBottom	
layout_weight	
layout_width	match_parent
lineSpacingExtra	
lineSpacingMultiplier	
lines	
linksClickable	
longClickable	
marqueeRepeatLimit	
maxEms	
maxHeight	
maxLength	
maxLines	
maxWidth	
minEms	
minHeight	
minLines	
minWidth	
nextFocusDown	
nextFocusForward	
nextFocusLeft	
nextFocusRight	
nextFocusUp	
►	numeric

1. Select the txtInterestTopMargin dimension resource

2. Click OK

OK Cancel

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (22 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

1:TODO

Terminal

Build

6:Logcat

Event Log

Source generation ended in 266 ms (23 minutes ago)

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (android.R\$)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml
- Gradle Scripts

Switch to the Common Palette group

activity_main.xml

MainActivity.java

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Attributes

txtInterest

layerType

layout_gravity

layout_height

layout_margin

layout_marginLeft

layout_marginTop

layout_marginRight

layout_marginBottom

layout_weight

layout_width

lineSpacingExtra

lineSpacingMultiplier

lines

linksClickable

longClickable

marqueeRepeatLimit

maxEms

maxHeight

maxLength

maxLines

maxWidth

minEms

minHeight

minLines

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

numeric

Pixel 28 AppTheme Default (en-us) 31% 31%

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Electric Car Financing

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <TextView
        android:id="@+id/mainTitleTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Electric Car Financing"/>
    <Spinner
        android:id="@+id/yearsSpinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <EditText
        android:id="@+id/txtLoan"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:inputType="numberDecimal"/>
    <EditText
        android:id="@+id/txtInterest"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:inputType="numberDecimal"/>
</LinearLayout>
```

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

Gradle

Device File Explorer

Android

app

manifests

java

edu.udayton.electriccarfinancing

MainActivity

edu.udayton.electriccarfinancing (androidTest)

edu.udayton.electriccarfinancing (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t...

yearsSpinner

txtLoan(Number(Decimal))

txtInterest(Number(Decimal))

Design Text

Pixel 28 AppTheme Default (en-us) 31% 31%

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView Ab Button Ab ImageView Ab RecyclerView Ab <fragment> Ab ScrollView Ab Switch

Add a Button to the layout for calculating car payments ...

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Electric Car Financing

Source generation ended in 266 ms (23 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is being edited in the design tab. A yellow arrow points to the 'Button' icon in the palette under the 'Buttons' category. A tooltip message 'Add a Button to the layout for calculating car payments ...' is displayed. The layout itself consists of a title 'Electric Car Financing', two text input fields ('Car Loan Amount' and 'Interest Rate'), and a large blue background area. The right side of the screen shows the XML code for the layout, which includes components like LinearLayout, TextView, and EditText. The bottom status bar indicates that source generation ended in 266 ms (23 minutes ago).

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

TODO Terminal Build Logcat

Source generation ended in 266 ms (23 minutes ago)

Design Text

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
 - edu.udayton.electriccarfinancing (androidTest)
 - edu.udayton.electriccarfinancing (test)
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml
- Gradle Scripts

activity_main.xml

MainActivity.java

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 AppTheme Default (en-us) 31% Attributes

Add to Design

... right below the interest rate text field

... right below the interest rate text field

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Component Tree

- LinearLayout(vertical)
 - mainTitleTextView- "@string/t..."
 - yearsSpinner
 - txtLoan(Number (Decimal))
 - txtInterest(Number (Decim...)

Attributes

txtInterest

layerType

layout_gravity

layout_height

layout_margin

layout_margin

layout_marginLeft

layout_marginTop

layout_marginRight

layout_marginBottom

layout_weight

layout_width

lineSpacingExtra

lineSpacingMultiplier

lines

linksClickable

longClickable

marqueeRepeatLimit

maxEms

maxHeight

maxLength

maxLines

maxWidth

minEms

minHeight

minLines

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

numeric

Device File Explorer

The screenshot shows the Android Studio interface with the 'activity_main.xml' layout file open. The layout consists of a title bar, a spinner for years, a text input for loan amount, and a text input for interest rate. The 'Interest Rate' text input is currently selected. On the left, the project structure is visible, and on the right, the code editor shows the corresponding Java and XML files. The bottom navigation bar includes tabs for 'Design' and 'Text'. A yellow arrow points from the 'Add to Design' button in the palette to the 'Interest Rate' text input in the preview, indicating where it will be placed. A yellow callout box with the text '... right below the interest rate text field' provides further context.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Activity Main XML

MainActivity.java

Attributes

Declared Attributes

Layout

Component Tree

Design Text

Source generation ended in 266 ms (23 minutes ago)

Event Log

The screenshot shows the Android Studio interface for the 'ElectricCarFinancing' project. The main focus is the 'activity_main.xml' layout editor. The layout consists of a title bar with 'Electric Car Financing', two text input fields ('Car Loan Amount' and 'Interest Rate'), and two buttons at the bottom. The bottom button is currently selected, highlighted with a blue border. A yellow callout box with the text 'Change the Button's ID' points to the 'btnPayment' ID in the 'Declared Attributes' section of the right-hand properties panel. The properties panel also lists various attributes for the selected button, such as style (@android:style/Widget.Material.Button), background (@android:drawable/btn_default), and text (Button). The 'Component Tree' panel on the left shows the hierarchical structure of the layout components.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

Attributes

btnPayment

id btnPayment

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility visibility

Common Attributes

style @android:style/Widget.Button

onClick

background @android:drawable/btn_default

text Button

text

contentDescription

textAppearance @android:style/TextAppearance

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/text_color_prime

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_default

bufferType

capitalize

clickable true

contentDescription

Using the layout_width attribute value menu ...

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number(Decimal))

txtInterest(Number(Decimal))

btnPayment- "Button"

Electric Car Financing

Three

Car Loan Amount

Interest Rate

BUTTON

BUTTON

Electric Car Financing

Source generation ended in 266 ms (23 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

Attributes

btnPayment

id btnPayment

Declared Attributes

Layout

layout_width match_parent

layout_height match_parent

layout_weight wrap_content

visibility

Common Attributes

style

onClick

background

text

text

contentDescription

textAppearance

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/text_color_prim

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_default

bufferType

capitalize

clickable true

contentDescription

... change the layout_width to 'wrap_content' so that the button is just wide enough for its text (label)

Pixel 28 AppTheme Default (en-us) 31% 31%

Electric Car Financing

Three

Car Loan Amount

Interest Rate

BUTTON

BUTTON

Electric Car Financing

Component Tree

- LinearLayout(vertical)
 - mainTitleTextView- "@string/t..."
 - yearsSpinner
 - txtLoan(Number (Decimal))
 - txtInterest(Number (Decim...)
 - btnPayment- "Button"

Device File Explorer

Source generation ended in 266 ms (23 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (24 minutes ago)

Android

app

manifests

java

edu.udayton.electriccarfinancing

MainActivity

edu.udayton.electriccarfinancing (androidTest)

edu.udayton.electriccarfinancing (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 AppTheme Default (en-us) 31% Attributes

btnPayment

id btnPayment

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

style @android:style/Widget.Mater

onClick

background @android:drawable/btn_default

text Button

text

contentDescription

textAppearance

typeface

textSize 14sp

lineSpacingExtra

textColor

textStyle

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_default

bufferType

capitalize

clickable true

contentDescription

Use the Resources manager to change the Button's text

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number (Decimal))

txtInterest(Number (Decim...)

btnPayment- "Button"

Electric Car Financing

Three

Car Loan Amount

Interest Rate

B I Tr

Device File Explorer

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is being edited. The layout contains a title bar with 'Electric Car Financing', two text input fields for 'Car Loan Amount' and 'Interest Rate', and a button at the bottom labeled 'BUTTON'. The 'Text' tab is selected in the bottom navigation bar. The right side of the screen shows the XML code for the button, specifically the 'text' attribute which is set to 'Button'. A yellow callout box with the text 'Use the Resources manager to change the Button's text' points to this attribute. The 'Attributes' panel on the right also shows the 'text' attribute with the value 'Button' highlighted.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (24 minutes ago)

Resources

Add new resource ▾

Name: btnPaymentLabel

Project Default Car Payment

app_name Electric Car Financing

btnPaymentLabel Car Payment **1. Select the btnPaymentLabel string resource**

hint2 Car Loan Amount

hint3 Interest Rate

imgOpeningDescription App Opening Image

imgYearsDescription Number of Years Image

prompt1 Number of Years

txtMonthlyPaymentText Monthly Payment

txtTitleText Electric Car Financing

android

VideoView_error_button OK

VideoView_error_text_invalid_progress Hierdie video is nie geldig vir stro...

VideoView_error_text_unknown Kan nie hierdie video speel nie.

VideoView_error_title Videoprobleem

autofill Outovul

cancel Kanselleer

copy Kopieer

copyUrl Kopieer URL

cut Sny

defaultMsisdnAlphaTag MSISDN1

EDIT TRANSLATIONS

OK Cancel

Attributes

btnPayment

id btnPayment

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

style @android:style/Widget.Mater

onClick

background @android:drawable/btn_default

text **Button**

text

contentDescription

textAppearance @android:style/TextAppeara

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/text_color_prim

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_default

bufferType

capitalize

clickable true

contentDescription

Gradle

Device File Explorer

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. A yellow callout box with the text "1. Select the btnPaymentLabel string resource" points to the "Car Payment" entry in the "Resources" table. Another yellow callout box with the text "2. Click OK" points to the "OK" button at the bottom right of the dialog. The "Text" tab is selected at the bottom. The right-hand panel displays the attributes for the selected `btnPayment` button, including its ID, style, and text content.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
edu.udayton.electriccarfinancing (androidTest)
edu.udayton.electriccarfinancing (test)
generatedJava
res
drawable
layout
mipmap
values
colors.xml
dimens.xml
strings.xml
styles.xml
Gradle Scripts

2:Structure Favorites Build Variants Layout Captures

activity_main.xml MainActivity.java

Palette Common Text Buttons Widgets Layouts Containers Google Legacy

Attributes

btnPayment

id btnPayment

Declared Attributes

Layout

layout_width wrap_content
layout_height wrap_content
layout_weight
visibility
visibility
Common Attributes

style @android:style/Widget.Mater...
onClick
background @android:drawable/btn_default
text @string/btnPaymentLabel
text
contentDescription
textAppearance @android:style/TextAppeara...
typeface
textSize 14sp
lineSpacingExtra
textColor @android:color/text_color_prim...
textStyle B I Tr
All Attributes

alpha
autoLink
autoText
background @android:drawable/btn_default
bufferType
capitalize
clickable true
contentDescription

Use the Resources manager to change the Button's text size

Component Tree

LinearLayout(vertical)
mainTitleTextView- "@string/t..."
yearsSpinner
txtLoan(Number(Decimal))
txtInterest(Number(Decim...)
btnPayment

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

CAR PAYMENT

Electric Car Financing

Source generation ended in 266 ms (24 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

Android

app
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generatedJava
res
drawable
layout
mipmap
values
colors.xml
dimens.xml
strings.xml
styles.xml

Gradle Scripts

2:Structure Favorites Build Variants Layout Captures

activity_main.xml MainActivity.java

Attributes
btnPayment
id btnPayment
Declared Attributes
Layout
Common Attributes
All Attributes

Resources

Add new resource

Name: btnPaymentTextSize

1. Select the btnPaymentTextSize dimension resource

2. Click OK

OK Cancel

btnPaymentTextSize 35sp

btnPaymentTopMargin 28dp

imgOpeningTopMargin 10dp

imgYearsHeight 250dp

imgYearsTopMargin 20dp

imgYearsWidth 350dp

txtInterestTextSize 25sp

txtInterestTopMargin 15dp

txtLoanTextSize 25sp

txtLoanTopMargin 15dp

txtMainTitleTextSize 32sp

txtMainTitleTopMargin 20dp

txtMnthlyPaymentTopMargin 40dp

txtMonthlyPaymentTextSize 25sp

txtPaymentTitleTextSize 30sp

txtPaymentTitleTopMargin 30dp

yearSpinnerTopMargin 20dp

android

app_icon_size 48dip

dialog_min_width_major 55%

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (24 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

Build Variants

2:Favorites

Component Tree

Design Text

Attributes

Gradle

Device File Explorer

Activity Main XML Editor:

The screenshot shows the Android Studio interface for editing the `activity_main.xml` layout file. The layout consists of a vertical `LinearLayout` containing a `mainTitleTextView`, a `yearsSpinner`, two `Number` `EditText` fields for 'Car Loan Amount' and 'Interest Rate', and a large blue button labeled 'CAR PAYMENT'. A yellow callout box with the text 'Expand the layout_margin attributes' points to the right edge of the blue button's layout parameters in the Attributes panel.

Attributes for the blue button (btnPayment):

- layout_height: wrap_content
- layout_margin: [?, ?, ?, ?, ?]
- layout_weight:
- layout_width: wrap_content
- lineSpacingExtra:
- lineSpacingMultiplier:
- lines:
- linksClickable:
- longClickable:
- marqueeRepeatLimit:
- maxEms:
- maxHeight:
- maxLength:
- maxWidth:
- minEms:
- minHeight: 48dip
- minLines:
- minWidth: 88dip
- nextFocusDown:
- nextFocusForward:
- nextFocusLeft:
- nextFocusRight:
- nextFocusUp:
- numeric:
- onClick:
- overScrollMode:
- padding: [?, ?, ?, ?, ?]
- password:
- phoneNumber:
- privateImeOptions:
- requiresFadingEdge:

Component Tree:

- LinearLayout(vertical)
 - mainTitleTextView- "@string/t..."
 - yearsSpinner
 - txtLoan(Number (Decimal))
 - txtInterest(Number (Decim...)
 - btnPayment- "@string/btnPay..."

Bottom Navigation Bar:

- TODO
- Terminal
- Build
- Logcat
- Event Log

Bottom Status Bar:

- Source generation ended in 266 ms (24 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2:Favorites

Build Variants

Component Tree

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 AppTheme Default (en-us) 31% Attributes

btnPayment

layout_height wrap_content

layout_margin [?, ?, ?, ?, ?]

layout_margin

layout_marginLeft

layout_marginTop

layout_marginRight

layout_marginBottom

layout_weight

layout_width wrap_content

lineSpacingExtra

lineSpacingMultiplier

lines

linksClickable

longClickable

marqueeRepeatLimit

maxEms

maxHeight

maxLength

maxLines

maxWidth

minEms

minHeight 48dip

minLines

minWidth 88dip

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

numeric

onClick

overScrollMode

Use the Resources manager to set the Button's top margin

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

CAR PAYMENT

Electric Car Financing

CAR PAYMENT

Source generation ended in 266 ms (24 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

Android

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edu.udayton.electriccarfinancing (test)
generatedJava
res
drawable
layout
mipmap
values
colors.xml
dimens.xml
strings.xml
styles.xml

Gradle Scripts

2:Structure Favorites

Layout Captures Build Variants

Design Text

Resources

Add new resource

Name: btnPaymentTopMargin

Default 28dp

1. Select the btnPaymentTopMargin dimension resource

2. Click OK

OK Cancel

Attributes

btnPayment
layout_gravity
layout_height
layout_margin
layout_marginLeft
layout_marginTop
layout_marginRight
layout_marginBottom
layout_weight
layout_width
lineSpacingExtra
lineSpacingMultiplier
lines
linksClickable
longClickable
marqueeRepeatLimit
maxEms
maxHeight
maxLength
maxLines
maxWidth
minEms
minHeight 48dip
minLines
minWidth 88dip
nextFocusDown
nextFocusForward
nextFocusLeft
nextFocusRight
nextFocusUp
numeric
onClick

Device File Explorer

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (25 minutes ago)

Resource Name	Value
btnPaymentTextSize	35sp
btnPaymentTopMargin	28dp
imgOpeningTopMargin	10dp
imgYearsHeight	250dp
imgYearsTopMargin	20dp
imgYearsWidth	350dp
txtInterestTextSize	25sp
txtInterestTopMargin	15dp
txtLoanTextSize	25sp
txtLoanTopMargin	15dp
txtMainTitleTextSize	32sp
txtMainTitleTopMargin	20dp
txtMnthlyPaymentTopMargin	40dp
txtMonthlyPaymentTextSize	25sp
txtPaymentTitleTextSize	30sp
txtPaymentTitleTopMargin	30dp
yearSpinnerTopMargin	20dp
android	
app_icon_size	48dip
dialog_min_width_major	55%

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2:Favorites

Build Variants

Component Tree

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 AppTheme Default (en-us) 31% Attributes

Ab TextView

Ab Button

Ab ImageView

Ab RecyclerView

Ab <fragment>

Ab ScrollView

Ab Switch

btnPayment

layout_gravity

layout_height

layout_margin

layout_marginLeft

layout_marginTop

layout_marginRight

layout_marginBottom

layout_weight

layout_width

lineSpacingExtra

lineSpacingMultiplier

lines

linksClickable

longClickable

marqueeRepeatLimit

maxEms

maxHeight

maxLength

maxLines

maxWidth

minEms

minHeight 48dip

minLines

minWidth 88dip

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

numeric

onClick

Design Text

Expand the layout_gravity attribute

Electric Car Financing

Three

Car Loan Amount

Interest Rate

CAR PAYMENT

Electric Car Financing

CAR PAYMENT

Source generation ended in 266 ms (26 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

Build Variants

2:Favorites

Component Tree

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 AppTheme Default (en-us) 31% Attributes

btnPayment

layout_gravity center_horizontal

bottom false

clip_horizontal false

center false

clip_vertical false

start false

right false

center_horizontal true

fill false

fill_horizontal false

end false

layout_height wrap_content

layout_margin [?, ?, @dimen/btnPaymentTopMargin, ?]

layout_marginLeft

layout_marginTop @dimen/btnPaymentTopMargin

layout_marginRight

layout_marginBottom

layout_weight

layout_width wrap_content

lineSpacingExtra

lineSpacingMultiplier

lines

linksClickable

longClickable

marqueeRepeatLimit

maxEms

maxHeight

Gradle

Device File Explorer

Activity Main XML

MainActivity.java

Electric Car Financing

Three

Car Loan Amount

Interest Rate

CAR PAYMENT

Set the layout_gravity as center_horizontal to center the button in the layout horizontally

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (26 minutes ago)

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

activity_main.xml MainActivity.java

Attributes

btnPayment	Button
scrollbarFadeDuration	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHorizontal	@android:drawable/scrollbar_h...
scrollbarThumbVertical	@android:drawable/scrollbar_h...
scrollbarTrackHorizontal	@null
scrollbarTrackVertical	@android:drawable/config_sco...
scrollbars	
selectAllOnFocus	
shadowColor	
shadowDx	
shadowDy	
shadowRadius	
singleLine	
soundEffectsEnabled	
style	@android:style/Widget.Mater...
tag	
targetApi	
text	@string/btnPaymentLabel
textAllCaps	true
textColor	#android:color/text_color_prim...
textColorHighlight	#android:color/highlighted_text...
textColorHint	#android:color/hint_foreground...
textColorLink	1B60
textCursorDrawable	#android:drawable/text_cursor_...
textIsSelectable	
textScaleX	
textSize	@dimen/btnPaymentTextSize
textStyle	normal
theme	
transformPivotX	
transformPivotY	

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Component Tree

- LinearLayout(vertical)
 - mainTitleTextView- "@string/t..."
 - yearsSpinner
 - txtLoan(Number(Decimal))
 - txtInterest(Number(Decimal))
 - btnPayment- "@string/btnPay..."

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

CAR PAYMENT

Electric Car Financing

CAR PAYMENT

Set the textAllCaps attribute value ...

Source generation ended in 266 ms (27 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Build Variants

Layout Captures

TODO Terminal Build Logcat

Source generation ended in 266 ms (27 minutes ago)

Android

app

- manifests
- java
 - edu.udayton.electriccarfinancing
 - MainActivity
- generatedJava
- res
 - drawable
 - layout
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle

activity_main.xml

MainActivity.java

Attributes

btnPayment

- scrollbarFadeDuration 250
- scrollbarSize 4dp
- scrollbarStyle
- scrollbarThumbHorizontal @android:drawable/scrollbar_h...
- scrollbarThumbVertical @android:drawable/scrollbar_h...
- scrollbarTrackHorizontal @null
- scrollbarTrackVertical @android:drawable/config_sco...
- scrollbars
- selectAllOnFocus
- shadowColor
- shadowDx
- shadowDy
- shadowRadius
- singleLine
- soundEffectsEnabled
- style @android:style/Widget.Mater...
- tag
- targetApi
- text @string/btnPaymentLabel
- textAllCaps false
- textColor android:color/text_color_prim...
- textColorHighlight @android:color/highlighted_text...
- textColorHint android:color/hint_foreground...
- textColorSecondary android:color/secondary_text...
- textCursor android:drawable/text_cursor...
- textIsSelectable
- textScaleX
- textSize @dimen/btnPaymentTextSize
- textStyle normal
- theme
- transformPivotX
- transformPivotY

Palette

Common

- Ab TextView
- Button
- Image View
- Recycler View
- <fragment>
- ScrollView
- Switch

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

- LinearLayout(vertical)
 - mainTitleTextView- "@string/t..."
 - yearsSpinner
 - txtLoan(Number(Decimal))
 - txtInterest(Number(Decim...)
 - btnPayment- "@string/btnPay..."

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Car Payment

Electric Car Financing

CAR PAYMENT

... to false so that the button label text cases are preserved

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager 2:Structure 3:Favorites

Activity Main XML > MainActivity.java

Attributes

- btnPayment
- scrollbarFadeDuration
- scrollbarSize
- scrollbarStyle
- scrollbarThumbHorizontal
- scrollbarThumbVertical
- scrollbarTrackHorizontal
- scrollbarTrackVertical
- scrollbars
- selectAllOnFocus
- shadowColor
- shadowDx
- shadowDy
- shadowRadius
- singleLine
- soundEffectsEnabled
- style
- tag
- targetApi
- text
- textAllCaps
- textColor
- textColorHighlight
- textColorHint
- textColorLink
- textCursorDrawable
- textIsSelectable
- textScaleX
- textSize
- textStyle
- theme
- transformPivotX
- transformPivotY

Palette

- Common
- Text
- Buttons
- Widgets
- Layouts
- Containers
- Google
- Legacy

Common

- Ab TextView
- Button
- ImageView
- Recycler View
- <> <fragment>
- ScrollView
- Switch

Attributes

Design Text

Source generation ended in 266 ms (27 minutes ago)

Add an ImageView to the layout ...

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Car Payment

CAR PAYMENT

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

Build Variants

2:Favorites

Component Tree

Linear Layout (vertical)

- mainTitleTextView- "@string/t...
- yearsSpinner
- txtLoan(Number (Decimal))
- txtInterest(Number (Decim...)
- btnPayment- "@string/btnPay...

Design Text

Activity Main XML

MainActivity.java

Attributes

btnPayment

- scrollbarFadeDuration 250
- scrollbarSize 4dp
- scrollbarStyle
- scrollbarThumbHorizontal @android:drawable/scrollbar_h...
- scrollbarThumbVertical @android:drawable/scrollbar_h...
- scrollbarTrackHorizontal @null
- scrollbarTrackVertical @android:drawable/config_sco...

scrollbars

selectAllOnFocus

shadowColor

shadowDx

shadowDy

shadowRadius

singleLine

soundEffectsEnabled

style @android:style/Widget.Mater...

tag

targetApi

- text @string/btnPaymentLabel
- textAllCaps false
- textColor @android:color/text_color_prim...
- textColorHighlight @android:color/highlighted_te...
- textColorHint @android:color/hint_foreground...
- textColorLink #D81B60
- textCursorDrawable @android:drawable/text_cursor...
- textIsSelectable
- textScaleX
- textSize @dimen/btnPaymentTextSize
- textStyle normal
- theme
- transformPivotX
- transformPivotY

Gradle

Device File Explorer

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Car Payment

CAR PAYMENT

... right below the Car Payment button

A yellow arrow points from the "Add to Design" option in the context menu to the area just below the "Car Payment" button in the layout preview.

Source generation ended in 266 ms (27 minutes ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

2:Structure

Build Variants

Layout Captures

TODO Terminal Build Logcat

Source generation ended in 266 ms (27 minutes ago)

Activity Main XML Editor

Attributes

btnPayment	Button
scrollbarFadeDuration	250
scrollbarSize	4dp
scrollbarStyle	@null
scrollbarThumbHorizontal	@android:drawable/scrollbar_ha
scrollbarThumbVertical	@android:drawable/scrollbar_ha
scrollbarTrackHorizontal	@null
scrollbarTrackVertical	@android:drawable/config_scro
scrollbars	
selectAllOnFocus	
shadowColor	
shadowDx	
shadowDy	
shadowRadius	
singleLine	
soundEffectsEnabled	
style	@android:style/Widget.Mater
tag	
targetApi	
text	@string/btnPaymentLabel
textAllCaps	false
textColor	@android:color/text_color_prim
textColorHighlight	@android:color/highlighted_tex
textColorHint	@android:color/hint_foreground
textColorLink	#D81B60
textCursorDrawable	@android:drawable/text_cursor_
textIsSelectable	
textScaleX	
textSize	@dimen/btnPaymentTextSize
textStyle	normal
theme	
transformPivotX	
transformPivotY	

Gradle

Device File Explorer

Resources Dialog

Add new resource

Sample data

avatars

backgrounds/scenic

android

Theme attributes

No Preview

OK Cancel

Expand the Project drawables (images)

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is selected in the top navigation bar. On the left, the Project structure is visible, showing the app module with its sub-directories like manifests, java, and res. The 'res' directory contains drawable, layout, mipmap, and values folders. The 'values' folder is currently selected. In the center, the 'Resources' dialog is open, displaying a tree view of resources. A yellow callout box with the text 'Expand the Project drawables (images)' points to the 'android' node under the 'Drawable' category. The right side of the screen shows the 'Attributes' panel for the 'btnPayment' button, listing various properties like 'text' and 'textColor'. At the bottom, tabs for 'Design' and 'Text' are present, along with standard Android Studio navigation icons.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

activity_main.xml MainActivity.java

Attributes

btnPayment

id btnPayment

Declared Attributes

Layout

layout_width wrap_content

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

style @android:style/Widget.Mater

onClick

background @android:drawable/btn_default

text @string/btnPaymentLabel

text

contentDescription

textAppearance @android:style/TextAppeara

typeface

textSize @dimen/btnPaymentTextSize

lineSpacingExtra

textColor @android:color/text_color_prim

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_default

bufferType

capitalize

clickable true

contentDescription

Gradle

Resource Manager

Drawable Sample data

Name: opening Default PNG

avatars

backgrounds/scenic

Project

five

four

ic_launcher

ic_launcher_background

ic_launcher_foreground

ic_launcher_foreground

ic_launcher_round

opening

three

android

Theme attributes

1. Select the opening drawable resource

2. Click OK

OK Cancel

Design Text

TODO Terminal Build Logcat Event Log

Source generation ended in 266 ms (28 minutes ago)

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_main.xml' layout file is being edited. A 'Resources' dialog is displayed, showing the 'Drawable' section with a list of resources. The 'opening' resource is selected, highlighted with a blue border. A yellow callout box with the text '1. Select the opening drawable resource' has an arrow pointing to the 'opening' item. Another yellow callout box with the text '2. Click OK' has an arrow pointing to the 'OK' button at the bottom right of the dialog. The preview area shows a hand holding a pen and drawing a car outline on a grid background. The 'Attributes' panel on the right shows the properties for the 'btnPayment' button, including its ID, layout parameters, and style.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

activity_main.xml MainActivity.java

Attributes

imageView
id imgOpening

Declared Attributes

Layout

layout_width
layout_height
layout_weight
visibility
✓ visibility

Common Attributes

srcCompat
✓ srcCompat
contentDescription
background
scaleType
adjustViewBounds
cropToPadding

All Attributes

adjustViewBounds
alpha
background
baseline
baselineAlignBottom
clickable
contentDescription
cropToPadding
drawingCacheQuality
duplicateParentState
fadeScrollbars
✓ fadingEdge
fadingEdgeLength

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Pixel 28 AppTheme Default (en-us)

31% 31%

Attributes

imageView
id imgOpening

Declared Attributes

Layout

layout_width
layout_height
layout_weight
visibility
✓ visibility

Common Attributes

srcCompat
✓ srcCompat
contentDescription
background
scaleType
adjustViewBounds
cropToPadding

All Attributes

adjustViewBounds
alpha
background
baseline
baselineAlignBottom
clickable
contentDescription
cropToPadding
drawingCacheQuality
duplicateParentState
fadeScrollbars
✓ fadingEdge
fadingEdgeLength

Component Tree

LinearLayout(vertical)
mainTitleTextView- "@string/t...
yearsSpinner
txtLoan(Number(Decimal))
txtInterest(Number(Decim...
btnPayment- "@string/btnPay...
imageView

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Car Payment

Electric Car Financing

CAR PAYMENT

Image View

The screenshot shows the Android Studio interface for editing the layout file 'activity_main.xml'. The left sidebar displays the project structure, with the 'app' module selected. The main area shows the 'Design' tab of the layout editor. The layout consists of a vertical linear layout containing a main title, a spinner, two text fields, a button, and an image view. The image view contains a hand-drawn illustration of a car's front end. A yellow callout box with the text 'Change the ImageView's ID' points to the 'id' field in the attributes panel, which currently contains 'imgOpening'. The attributes panel also lists other properties like 'srcCompat' and various visibility options.

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

Attributes

imgOpening

id imgOpening

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

✓ visibility

Common Attributes

srcCompat @drawable/opening

✓ srcCompat

contentDescription

background

scaleType

adjustViewBounds

cropToPadding

All Attributes

adjustViewBounds

alpha

background

baseline

baselineAlignBottom

clickable

contentDescription

cropToPadding

drawingCacheQuality

duplicateParentState

fadeScrollbars

✓ fadingEdge

fadingEdgeLength

Gradle

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number(Decimal))

txtInterest(Number(Decim...)

btnPayment- "@string/btnPay..."

imgOpening

Attributes

imgOpening

id imgOpening

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

✓ visibility

Common Attributes

srcCompat @drawable/opening

✓ srcCompat

contentDescription

background

scaleType

adjustViewBounds

cropToPadding

All Attributes

adjustViewBounds

alpha

background

baseline

baselineAlignBottom

clickable

contentDescription

cropToPadding

drawingCacheQuality

duplicateParentState

fadeScrollbars

✓ fadingEdge

fadingEdgeLength

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Car Payment

CAR PAYMENT

ImageView

Use the Resources manager to set the ImageView's content description

Logcat TODO Terminal Build

Gradle sync finished in 15 s 313 ms (from cached state) (a minute ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

Android

app

- manifests
- java
- generatedJava

res

- drawable
- layout
- mipmap
- values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Layout Captures

Structure

Favorites

Build Variants

Activity Main XML

MainActivity.java

Attributes

imgOpening

- id: imgOpening
- Declared Attributes
 - layout_width: match_parent
 - layout_height: wrap_content
 - layout_weight:
 - visibility:
 - srcCompat: @drawable/opening
 - contentDescription:
 - background:
 - scaleType:
 - adjustViewBounds:
 - cropToPadding:
- All Attributes
 - adjustViewBounds:
 - alpha:
 - background:
 - baseline:
 - baselineAlignBottom:
 - clickable:
 - contentDescription:
 - cropToPadding:
 - drawingCacheQuality:
 - duplicateParentState:
 - fadeScrollbars:
 - fadingEdge:
 - fadingEdgeLength:

Resources

Add new resource

Name: imgOpeningDescription

Default: App Opening Image

String Resource Name	Description
imgOpeningDescription	App Opening Image
imgYearsDescription	Number of Years Image
prompt1	Number of Years
txtMonthlyPaymentText	Monthly Payment
txtTitleText	Electric Car Financing
android	
VideoView_error_button	OK
VideoView_error_text_invalid_progress	Hierdie video is nie geldig vir stro...
VideoView_error_text_unknown	Kan nie hierdie video speel nie.
VideoView_error_title	Videoprobleem
autofill	Outovul
cancel	Kanselleer
copy	Kopieer
copyUrl	Kopieer URL
cut	Sny
defaultMsisdnAlphaTag	MSISDN1

EDIT TRANSLATIONS

1. Select the imgOpeningDescription string resource

2. Click OK

OK Cancel

Design Text

Logcat TODO Terminal Build

Gradle sync finished in 15 s 313 ms (from cached state) (a minute ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project

Resource Manager

Attributes

imgOpening

layout_gravity

layout_height

layout_margin

layout_weight

layout_width

longClickable

maxHeight

maxWidth

minHeight

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

onClick

overScrollMode

padding

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleType

scaleX

scaleY

scrollX

scrollY

scrollbarAlwaysDrawHoriz

scrollbarAlwaysDrawVert

scrollbarDefaultDelayBefore

scrollbarFadeDuration

Pixel 28 AppTheme Default (en-us) 30% 30% 30%

Common Text Buttons Widgets Layouts Containers Google Legacy

Expand the layout_margin attributes

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Car Payment

CAR PAYMENT

ImageView

Component Tree

LinearLayout(vertical)

mainTitleTextView- "@string/t..."

yearsSpinner

txtLoan(Number(Decimal))

txtInterest(Number(Decimal))

btnPayment- "@string/btnPay..."

imgOpening

Design Text

Logcat TODO Terminal Build

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Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

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ElectricCarFinancing > app > src > main > res > layout > activity_main.xml

1:Project Resource Manager

Android

app
manifests
java
generatedJava
res
drawable
layout
mipmap
values
colors.xml
dimens.xml
strings.xml
styles.xml
Gradle Scripts

Component Tree

LinearLayout(vertical)
mainTitleTextView- "@string/t...
yearsSpinner
txtLoan(Number(Decimal))
txtInterest(Number(Decim...
btnPayment- "@string/btnPay...
imgOpening

activity_main.xml

MainActivity.java

Pixel 28 AppTheme Default (en-us) 30% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

imgOpening layout_gravity layout_height layout_margin layout_marginLeft layout_marginTop layout_marginRight layout_marginBottom layout_weight layout_width longClickable maxHeight maxWidth minHeight minWidth nextFocusDown nextFocusForward nextFocusLeft nextFocusRight nextFocusUp onClick overScrollMode padding requiresFadingEdge rotation rotationX rotationY saveEnabled scaleType scaleX scaleY scrollX

Electric Car Financing

Three

Car Loan Amount

Interest Rate

Car Payment

CAR PAYMENT

Image View

Use the Resources manager to set the ImageView's top margin

Logcat TODO Terminal Build

Gradle sync finished in 15 s 313 ms (from cached state) (a minute ago)

Event Log

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app src main res layout activity_main.xml

1:Project Resource Manager

Android

app manifests java generatedJava res drawable layout mipmap values colors.xml dimens.xml strings.xml styles.xml

Gradle Scripts

Layout Captures

2:Structure

3:Favorites

Build Variants

4:Logcat TODO Terminal Build

Gradle sync finished in 15 s 313 ms (from cached state) (a minute ago)

5:Event Log

activity_main.xml MainActivity.java

Resources

Add new resource

Name: imgOpeningTopMargin

Default 10dp

imgOpeningTopMargin 10dp

1. Select the imgOpeningTopMargin dimension resource

2. Click OK

OK Cancel

Attributes

imgOpening layout_gravity layout_height layout_margin [?, ?, ?, ?, ?] layout_marginLeft layout_marginTop layout_marginRight layout_marginBottom layout_weight layout_width match_parent longClickable maxHeight maxWidth minHeight minWidth nextFocusDown nextFocusForward nextFocusLeft nextFocusRight nextFocusUp onClick overScrollMode padding [?, ?, ?, ?, ?] requiresFadingEdge rotation rotationX rotationY saveEnabled scaleType scaleX scaleY scrollX

Gradle

Device File Explorer

Project	
btnPaymentTextSize	35sp
btnPaymentTopMargin	28dp
imgOpeningTopMargin	10dp
imgYearsHeight	250dp
imgYearsTopMargin	20dp
imgYearsWidth	350dp
txtInterestTextSize	25sp
txtInterestTopMargin	15dp
txtLoanTextSize	25sp
txtLoanTopMargin	15dp
txtMainTitleTextSize	32sp
txtMainTitleTopMargin	20dp
txtMnthyPaymentTopMargin	40dp
txtMonthlyPaymentTextSize	25sp
txtPaymentTitleTextSize	30sp
txtPaymentTitleTopMargin	30dp
yearSpinnerTopMargin	20dp
android	
app_icon_size	48dip
dialog_min_width_major	55%

ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\res\\layout\\activity_main.xml [app] - Android Studio

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

ElectricCarFinancing app

1:Project

Resource Manager

Gradle

Activity Main XML

MainActivity.java

Attributes

imgOpening

layout_gravity

layout_height

layout_margin

layout_marginLeft

layout_marginTop

layout_marginRight

layout_marginBottom

layout_weight

layout_width

longClickable

maxHeight

maxWidth

minHeight

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

onClick

overScrollMode

padding

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleType

scaleX

scaleY

scrollX

scrollY

Pixel 28 AppTheme Default (en-us) 30% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Electric Car Financing

Car Loan Amount

Interest Rate

Car Payment

This concludes Part 1 of this lesson.
In Part 2 of Lesson 7, we add the second activity that will calculate and show the monthly payments based on user input, and set up its layout.

ImageView

Component Tree

- LinearLayout(vertical)
 - mainTitleTextView- "@string/t..."
 - yearsSpinner
 - txtLoan(Number (Decimal))
 - txtInterest(Number (Decim...)
 - btnPayment- "@string/btnPay..."
 - imgOpening

Design Text

Logcat TODO Terminal Build

Gradle sync finished in 15 s 313 ms (from cached state) (2 minutes ago)

Event Log