



ElectricCarFinancing > app

Android

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activity_main.xml

activity_main.xml

MainActivity.java

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Project

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

Resource Manager

Layout Captures

Favorites

Build Variants

Logcat

TODO

Terminal

Build

Gradle sync finished in 15 s 313 ms (from cached state) (13 minutes ago)

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-

Electric Car Financing

Three

Car Loan Amount

In Part 1 of this lesson, we created the project with a custom launcher icon, added images and resources, and set up the main activity layout.

In this part of Lesson 7, we add the second (payment) activity that will calculate and show the monthly payment based on user input from the main layout. In addition, we also customize the payment activity's layout.

NT

ImageView

Component Tree

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

Design Text

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

Device File Explorer

1

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

To add the second activity, select the 'app' in the Project explorer, and then right-click on it

Attributes

| | |
|---------------------|-----------------------------------|
| imgOpening | ImageView |
| layout_gravity | wrap_content |
| layout_height | [? ?, @dimen/imgOpeningTopMargin, |
| layout_margin | layout_margin |
| layout_marginLeft | |
| layout_marginTop | @dimen/imgOpeningTopMargin |
| 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 | |
| scrollY | |

Gradle

Resource Manager

Project

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

Design Text

Logcat TODO Terminal Build

Gradle sync finished in 15 s 313 ms (from cached state) (13 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 in the "Design" tab. The layout consists of a vertical LinearLayout containing a main title, a spinner, two text inputs for loan amount and interest rate, a button labeled "Car Payment", and an ImageView showing a hand holding a pen writing a car outline. The "Attributes" panel on the right lists various XML attributes for the ImageView component, such as layout_gravity, layout_height, and layout_margin. A yellow callout box with the text "To add the second activity, select the 'app' in the Project explorer, and then right-click on it" points to the "app" folder in the Project Explorer. The status bar at the bottom indicates a successful Gradle sync.

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

Android

New

- Link C++ Project with Gradle
- Cut Ctrl+X
- Copy Ctrl+C
- Copy Path Ctrl+Shift+C
- Copy Relative Path Ctrl+Alt+Shift+C
- Paste Ctrl+V
- Find Usages Alt+F7
- Find in Path... Ctrl+Shift+F
- Replace in Path... Ctrl+Shift+R
- Analyze
- Refactor
- Add to Favorites
- Show Image Thumbnails Ctrl+Shift+T
- Reformat Code Ctrl+Alt+L
- Optimize Imports Ctrl+Alt+O
- Run 'All Tests' Ctrl+Shift+F10
- Debug 'All Tests'
- Run 'All Tests' with Coverage
- Create 'All Tests'...
- Show in Explorer
- Open in Terminal
- Local History
- Synchronize 'app'
- Edit Scopes...
- Directory Path Ctrl+Alt+F12
- Compare With... Ctrl+D
- Open Module Settings F4
- Load/Unload Modules...
- Remove BOM
- Create Gist...
- Convert Java File to Kotlin File Ctrl+Alt+Shift+K

Module

- Android Resource File
- Android Resource Directory
- Sample Data Directory
- File
- Scratch File Ctrl+Alt+Shift+Insert
- Directory
- C++ Class
- C/C++ Source File
- C/C++ Header File
- Image Asset
- Vector Asset
- module-info.java
- .editorconfig file
- Kotlin Script
- Gradle Kotlin DSL Build Script
- Gradle Kotlin DSL Settings
- Edit File Templates...
- AIDL
- Activity
- Gallery...
- Android Auto
- Folder
- Fragment
- Google
- Other
- Service
- UI Component
- Wear
- Widget
- XML
- Resource Bundle

activity_main.xml

MainActivity.java

Attributes

- imgOpening ImageView
- layout_gravity
- layout_height wrap_content
- layout_margin [?, ?, @dimen/imgOpeningTopMargin, layout_margin]
- layout_marginLeft
- layout_marginTop @dimen/imgOpeningTopMargin
- 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

Design Text

Electric Car Financing

Three

Car Loan Amount

Interest Rate

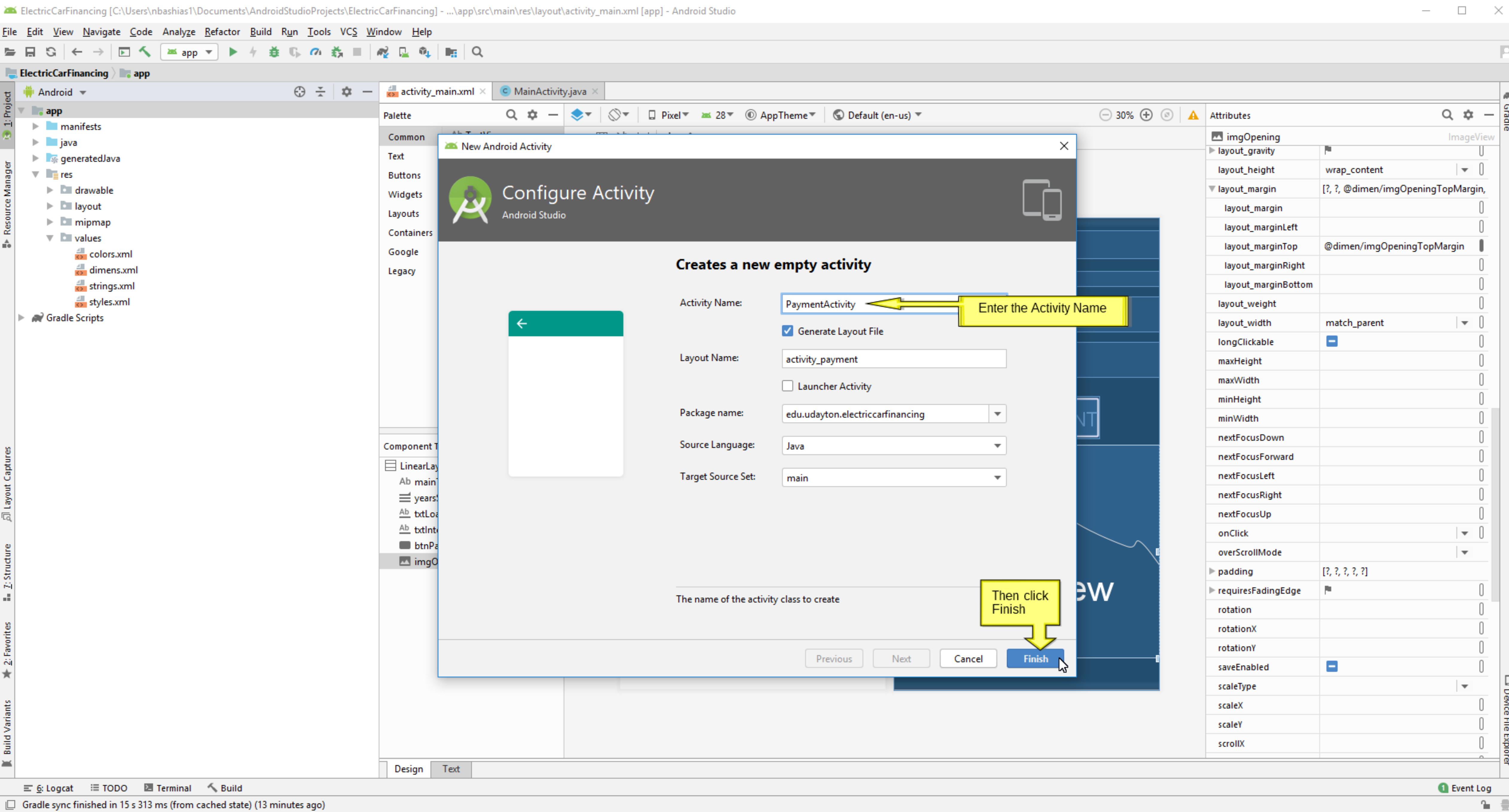
Car Payment

CAR PAYMENT

imageView

Select New > Activity > Empty Activity from the menu that appears

Device File Explorer



ElectricCarFinancing [C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing] - ...\\app\\src\\main\\java\\edu\\udayton\\electriccarfinancing\\PaymentActivity.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_payment.xml

1:Project

Android

app

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

Resource Manager

Gradle

1:Project

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

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

Switch to the payment activity's layout to customize it

Layout Captures

2: Favorites

Build Variants

Event Log

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (moments ago)

1:1 CRLF UTF-8 4 spaces

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project

Resource Manager

Java

edu.udayton.electriccarfinancing

- MainActivity
- PaymentActivity

generatedJava

res

- drawable
- layout
- mipmap
- values

 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Layout Captures

2: Favorites

Build Variants

Android

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette

Common

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

Attributes

Pixel 28 AppTheme Default (en-us)

No component selected.

Select a component in the Component Tree or on the Design Surface.

Component Tree

ConstraintLayout

Switch to this layout's text mode to change its layout to a LinearLayout

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (moments ago)

Event Log

Device File Explorer

The screenshot shows the Android Studio interface with the 'activity_payment.xml' layout file open. The layout editor has a toolbar at the top with icons for file operations, navigation, and search. Below the toolbar is a palette containing categories like Common, Text, Buttons, Widgets, Layouts, Containers, Google, and Legacy, each listing specific UI components. The 'Common' category is currently selected. The main area is divided into two sections: a white 'Design' surface on the left and a dark blue 'Text' surface on the right. A callout box with a yellow border and black text points from the bottom of the palette towards the 'Text' tab, which is highlighted with a thin border. The text inside the callout box reads: 'Switch to this layout's text mode to change its layout to a LinearLayout'. The status bar at the bottom shows 'Logcat TODO Terminal Build' tabs and a message indicating source generation completed. The bottom right corner shows an 'Event Log' tab.

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

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

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

1-Project Resource Manager

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

1. Project

app

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

Gradle Preview

As we did for the main layout in Part 1, select the ConstraintLayout's full path, type 'Linear' ...

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout[ 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:background="#F0F0F0">
</android.support.constraint.ConstraintLayout>
```

android.support.constraint.ConstraintLayout

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (moments ago) 43 chars 2:45 CRLF 4 spaces

Event Log 1

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager

Android

app

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

Gradle Preview

activity_main.xml x activity_payment.xml x PaymentActivity.java 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"
    android:orientation="vertical">
```

... and select the LinearLayout from this code completion menu

Linear

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (moments ago) 2:8 CRLF UTF-8 4 spaces

Event Log

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_payment.xml' file is selected in the layout editor. In the code editor, the XML starts with a root `<LinearLayout>`. A code completion tooltip is displayed over the word `LinearLayout`, listing options like `LinearLayout`, `LinearLayoutCompat`, and `HorizontalScrollView`. A yellow callout box with the text "... and select the LinearLayout from this code completion menu" points to the first option in the list. The bottom of the screen shows tabs for 'Design' and 'Text'.

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager 2:Gradle Preview

Android

app

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

Gradle Scripts

Layout Captures

2:Structure

Build Variants

2:Favorites

Switch back to this layout's design view

LinearLayout

Design Text

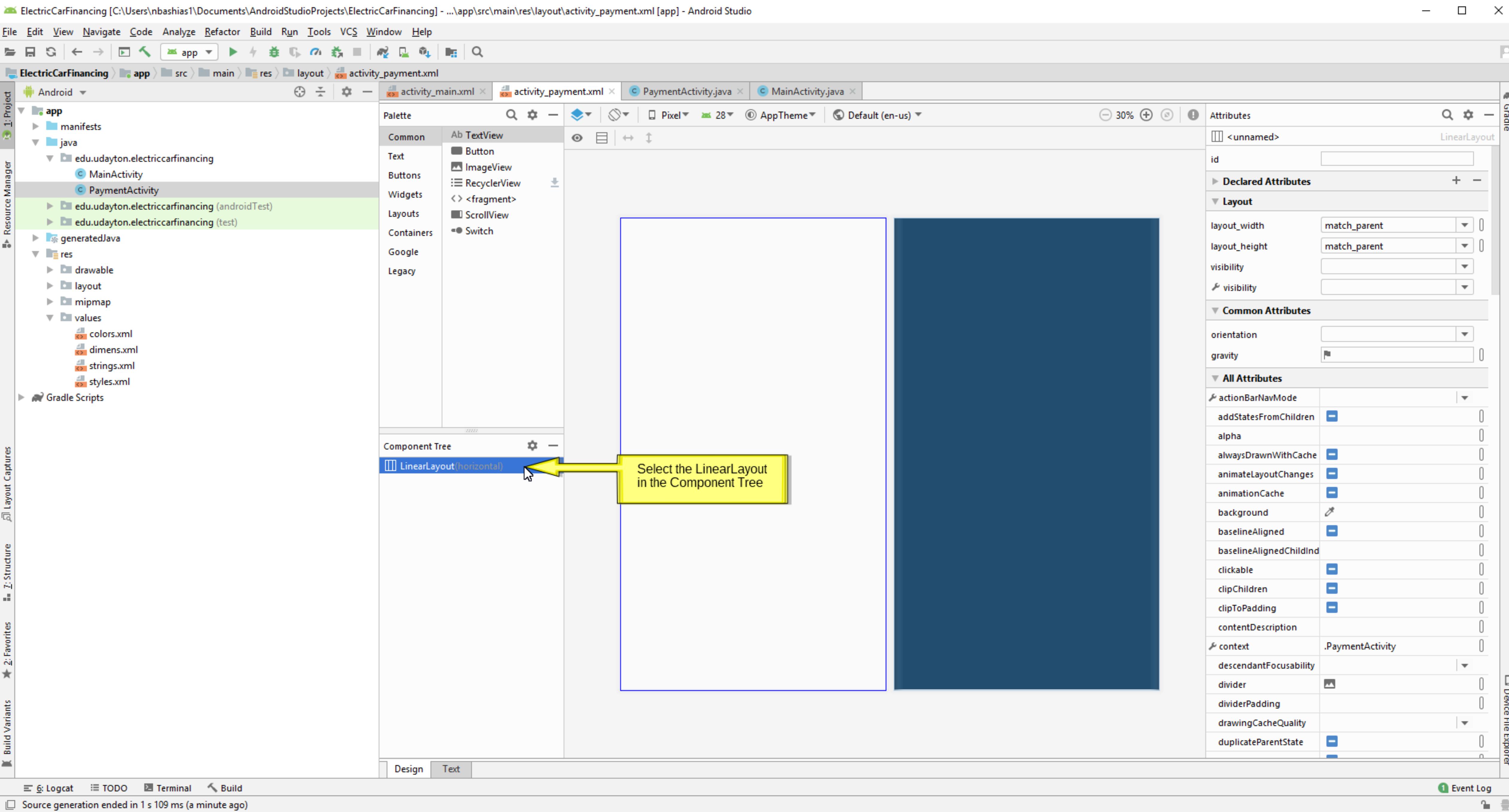
Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (moments ago)

Event Log

2:14 CRLF UTF-8 4 spaces

```
<?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=".PaymentActivity">
</LinearLayout>
```



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

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

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

1:Project Resource Manager

Activity Main XML Activity Payment XML PaymentActivity.java MainActivity.java

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout_width match_parent

layout_height match_parent

visibility

visibility

Common Attributes

orientation horizontal

vertical

All Attributes

actionBarNavMode

addStatesFromChildren

alpha

alwaysDrawnWithCache

animateLayoutChanges

animationCache

background

baselineAligned

baselineAlignedChildInd

clickable

clipChildren

clipToPadding

contentDescription

context .PaymentActivity

descendantFocusability

divider

dividerPadding

drawingCacheQuality

duplicateParentState

Gradle

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(horizontal)

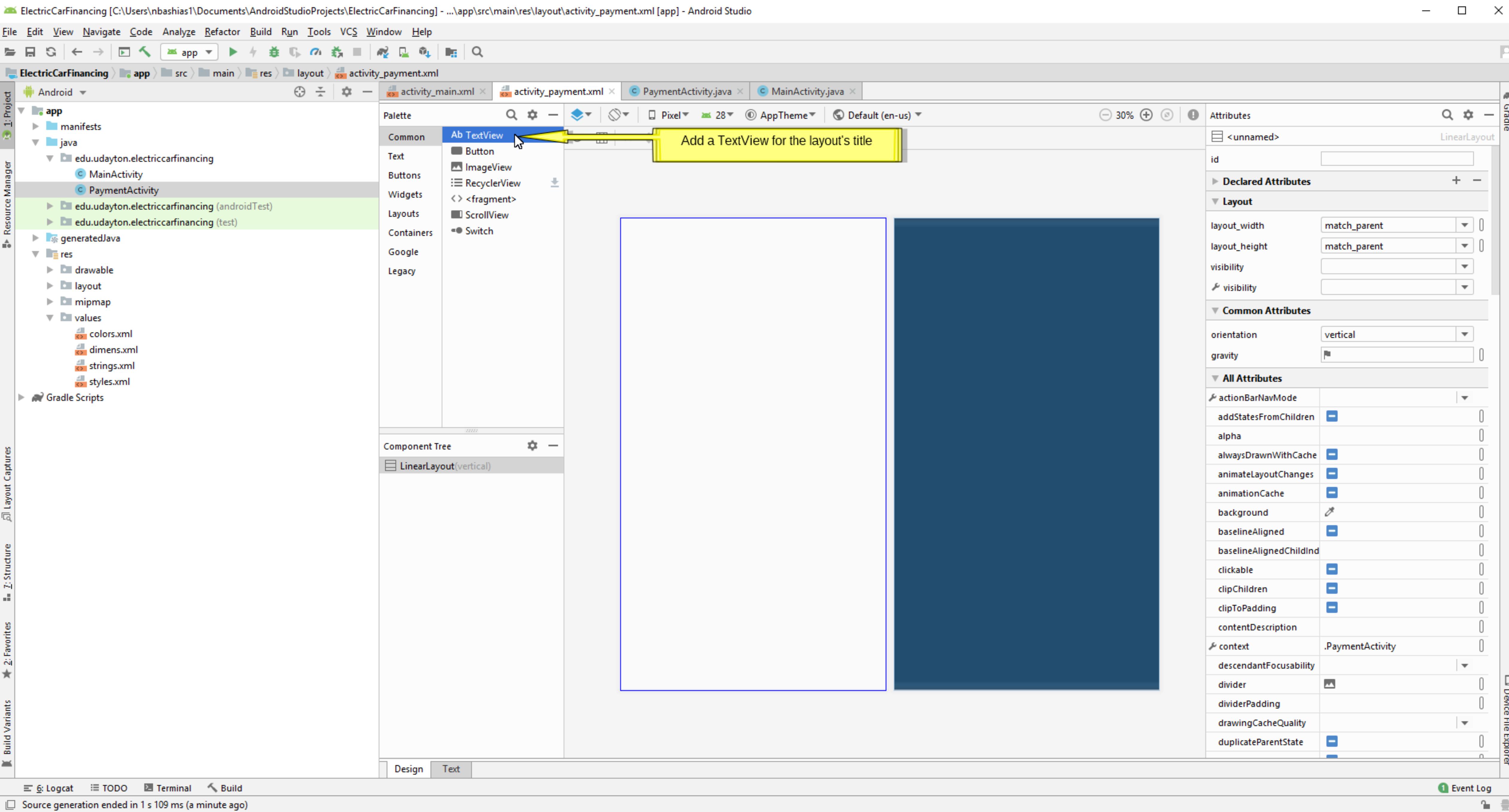
Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (a minute ago) Event Log

Change its orientation to vertical

The screenshot shows the Android Studio interface with the 'activity_payment.xml' layout file open. The layout contains a single horizontal LinearLayout. In the attributes panel, the 'orientation' attribute is currently set to 'horizontal'. A yellow callout with the text 'Change its orientation to vertical' has an arrow pointing to the dropdown menu where 'vertical' is selected. Other attributes like 'gravity' are also visible.



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

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

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

1:Project

Resource Manager

1:Layout Captures

2:Favorites

Build Variants

Android

app

manifests

java

edu.udayton.electriccarfinancing

- MainActivity
- PaymentActivity

edu.udayton.electriccarfinancing (androidTest)

edu.udayton.electriccarfinancing (test)

generatedJava

res

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

Gradle Scripts

Layout Captures

Structure

Favorites

Build Variants

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (a minute ago)

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Ab TextView

Add to Design Enter

✓ Favorite

Android Documentation Shift+F1

Recycler View

ScrollView

Switch

Component Tree

LinearLayout(vertical)

Attributes

<unnamed>

id

Declared Attributes

Layout

layout_width

layout_height

visibility

✓ visibility

Common Attributes

orientation

gravity

All Attributes

ActionBarNavMode

addStatesFromChildren

alpha

alwaysDrawnWithCache

animateLayoutChanges

animationCache

background

baselineAligned

baselineAlignedChildInd

clickable

clipChildren

clipToPadding

contentDescription

✓ context .PaymentActivity

descendantFocusability

divider

dividerPadding

drawingCacheQuality

duplicateParentState

Device File Explorer

Design Text

30%

Pixel 28 AppTheme Default (en-us)

The screenshot shows the Android Studio interface for editing the 'activity_payment.xml' layout file. The layout editor displays a single 'LinearLayout' with a vertical orientation. A context menu is open over the layout area, with the 'Add to Design' option highlighted. The 'Attributes' panel on the right lists various layout and common attributes for the selected view. The 'Component Tree' shows the single 'LinearLayout' node. The 'Text' tab at the bottom is visible.

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

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

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

1:Project

Resource Manager

2: Favorites

Build Variants

Layout Captures

2: Structure

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (a minute ago)

Event Log

Android

app manifests java edu.udayton.electriccarfinancing MainActivity PaymentActivity 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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette Common Text Buttons Widgets Layouts Containers Google Legacy Component Tree LinearLayout(vertical) Ab textView- "TextView"

Attributes

Declared Attributes

Layout

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

Common Attributes

- text TextView
- text
- contentDescription
- textAppearance @android:style/TextAppeara
- fontFamily
- typeface
- textSize 14sp
- lineSpacingExtra
- textColor @android:color/secondary_text
- textStyle B I Tr

All Attributes

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

Design Text

Change the TextView's ID

txtPaymentTitle

Device File Explorer

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_payment.xml' layout file is selected. The layout contains a single TextView element within a LinearLayout. The TextView's ID is highlighted with a yellow callout box containing the text 'Change the TextView's ID'. The Attributes panel on the right shows the current ID as 'txtPaymentTitle'. The palette on the left shows the 'Common' category selected, displaying various UI components like TextView, Button, ImageView, etc.

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

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

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

1:Project Resource Manager

Activity Main.xml Activity_payment.xml PaymentActivity.java MainActivity.java

Attributes

Ab txtPaymentTitle TextView

id txtPaymentTitle

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

✓ visibility

Common Attributes

text TextView

✓ text

contentDescription

textAppearance @android:style/Text

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary_text

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

Use the Resources manager to set the title text

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

Ab txtPaymentTitle "TextView"

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (a minute ago)

Event Log

Gradle

Device File Explorer

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager

Android app manifests java edu.udayton.electriccarfinancing MainActivity PaymentActivity edu.udayton.electriccarfinancing (androidTest) edu.udayton.electriccarfinancing (test) 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 activity_payment.xml PaymentActivity.java MainActivity.java

30% Attributes

Resources Add new resource

Name: txtTitleText

Default Electric Car Financing

txtTitleText Electric Car Financing

1. Select the txtTitleText string resource

2. Click OK

OK Cancel

Attributes

Ab txtPaymentTitle TextView

id txtPaymentTitle

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text TextView

text

contentDescription

textAppearance @android:style/TextAppeara...

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary_text

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

Gradle

Device File Explorer

Logcat TODO Terminal Build

Event Log

Source generation ended in 1 s 109 ms (a minute ago)

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

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

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

1:Project Resource Manager

Activity Main XML Activity Payment XML PaymentActivity.java MainActivity.java

Attributes

Ab txtPaymentTitle TextView

id txtPaymentTitle

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

✓ visibility

Common Attributes

text @string/txtTitleText

✓ text

contentDescription

textAppearance @android:style/TextAppeara

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary_text

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

Component Tree

LinearLayout(vertical)

Ab txtPaymentTitle

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (2 minutes ago)

Event Log

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

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_payment.xml' layout file is selected. The layout itself is very simple, containing a single TextView with the id 'txtPaymentTitle'. In the Properties panel on the right, the 'text' attribute is set to '@string/txtTitleText', which is highlighted with a yellow background. A yellow callout box with the text 'Use the Resources manager to set the title's text size' points to this attribute. The bottom right corner of the Properties panel also has a yellow border.

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager

Android

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

Gradle Scripts

Layout Captures

2:Structure Favorites Build Variants

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette 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 |
| txtMnthyPaymentTopMargin | 40dp |
| txtMonthlyPaymentTextSize | 25sp |
| txtPaymentTitleTextSize | 30sp |
| txtPaymentTitleTopMargin | 30dp |
| yearSpinnerTopMargin | 20dp |
| android | |
| app_icon_size | 48dip |
| dialog_min_width_major | 55% |

Name: txtPaymentTitleTextSize

Default 30sp

Attributes

Ab txtPaymentTitle TextView id txtPaymentTitle Declared Attributes Layout layout_width match_parent layout_height wrap_content layout_weight visibility visibility Common Attributes text @string/txtTitleText text contentDescription textAppearance @android:style/TextAppearing fontFamily typeface textSize 14sp lineSpacingExtra textColor @android:color/secondary_text textStyle All Attributes alpha autoLink autoSizeMaxTextSize autoSizeMinTextSize autoSizePresetSizes autoSizeStepGranularity autoSizeTextType autoText background bufferType

30% 30% 30%

1. Select the txtPaymentTitleTextSize dimension resource

OK Cancel

2. Click OK

Design Text

Logcat TODO Terminal Build

Event Log

Source generation ended in 1 s 109 ms (2 minutes ago)

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

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

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

1:Project Resource Manager

Activity Main XML Activity Payment XML PaymentActivity.java MainActivity.java

Attributes

Ab txtPaymentTitle TextView

id txtPaymentTitle

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

✓ visibility

Common Attributes

text @string/txtTitleText

✓ text

contentDescription

textAppearance @android:style/TextAppeara

fontFamily

typeface

textSize men/txtPaymentTitleTextSize

lineSpacingExtra

textColor @android:color/secondary_text

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

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

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

Ab txtPaymentTitle "@string/txt..."

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (2 minutes ago)

Event Log

Gradle

The screenshot shows the Android Studio interface for editing the 'activity_payment.xml' layout file. The layout consists of two side-by-side cards, each titled 'Electric Car Financing'. The left card is the preview area, and the right card is the XML code editor. In the XML editor, a TextView named 'txtPaymentTitle' is selected. The 'Attributes' panel on the right shows various properties for this view, including 'text' set to '@string/txtTitleText'. A yellow callout box with the text 'Use the Resources manager to change the title text color to black' points to the 'textColor' attribute, which is currently set to '@android:color/secondary_text'. The 'Component Tree' panel at the bottom shows the structure of the layout: a single LinearLayout containing the 'txtPaymentTitle' TextView.

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

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

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

1:Project Resource Manager

Android

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

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette Resources
Common Text Button Widget Layouts Container Google Legacy
Add new resource

Project colorAccent
colorPrimary
colorPrimaryDark

Theme attributes

Expand the android system colors

No Preview

OK Cancel

Attributes

Ab txtPaymentTitle
id txtPaymentTitle
Declared Attributes
Layout
layout_width match_parent
layout_height wrap_content
layout_weight
visibility
visibility
Common Attributes
text @string/txtTitleText
text
contentDescription
textAppearance @android:style/TextAppearing
fontFamily
typeface
textSize men/txtPaymentTitleTextSize
lineSpacingExtra
textColor @android:color/secondary_text
textStyle B I Tr
All Attributes
alpha
autoLink
autoSizeMaxTextSize
autoSizeMinTextSize
autoSizePresetSizes
autoSizeStepGranularity
autoSizeTextType
autoText
background
bufferType

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (2 minutes ago)

Event Log

Device File Explorer

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

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

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

1:Project Resource Manager

Android

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

Layout Captures

2:Favorites

Build Variants

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Attributes

Ab txtPaymentTitle
id txtPaymentTitle
Declared Attributes
Layout
Common Attributes
text
text
contentDescription
textAppearance
fontFamily
typeface
textSize
lineSpacingExtra
textColor
textStyle
All Attributes
alpha
autoLink
autoSizeMaxTextSize
autoSizeMinTextSize
autoSizePresetSizes
autoSizeStepGranularity
autoSizeTextType
autoText
background
bufferType

Palette

Resources

Add new resource

Name: black Default

Project

colorAccent
colorPrimary
colorPrimaryDark

android

background_dark
background_light
black
darker_gray
holo_blue_bright
holo_blue_dark
holo_blue_light
holo_green_dark
holo_green_light
holo_orange_dark
holo_orange_light

1. Select the black (system) color

2. Click OK

OK Cancel

Design Text

Logcat TODO Terminal Build

Source generation ended in 1s 109 ms (2 minutes ago)

Event Log

Device File Explorer

The screenshot shows the 'Resources' dialog in Android Studio. A yellow callout box labeled '1. Select the black (system) color' points to the 'black' color swatch in the list. Another yellow callout box labeled '2. Click OK' points to the 'OK' button at the bottom right of the dialog. The 'Name' field is set to 'black' and the 'Default' dropdown is selected. The preview area shows a solid black square. The code section below shows the declaration: '@android:color/black' and its hex value '#ff000000'. The 'Attributes' tab on the right lists various properties for the TextView component.

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

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

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

1:Project Resource Manager

Attributes

Ab txtPaymentTitle
layout_height wrap_content
layout_margin [?, ?, ?, ?, ?]
layout_weight
layout_width match_parent
lineHeight
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

Common Text Buttons Widgets Layouts Containers Google Legacy

Component Tree

LinearLayout(vertical)
Ab txtPaymentTitle "@string/txt..."

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (2 minutes ago)

Event Log

Expand the layout_margin attribute group

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

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

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

1:Project Resource Manager

Attributes

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

Use the Resources manager to set the top margin

Electric Car Financing

Electric Car Financing

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Component Tree

LinearLayout(vertical)
Ab txtPaymentTitle "@string/txt..."

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (2 minutes ago)

Event Log

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1: Project Resource Manager

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

Gradle Scripts

Layout Captures

2: Favorites

Build Variants

6: Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (2 minutes ago)

Event Log

Android

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette Resources

Common Text Button Widget Layouts Container Google Legacy

Components Lines

Add new resource

Name: txtPaymentTitleTopMargin

Default 30dp

txtPaymentTitleTopMargin 30dp

1. Select the txtPaymentTitleTopMargin dimension resource

OK Cancel

2. Click OK

Attributes

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

30% 30%

Device File Explorer

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

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

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

1:Project Resource Manager 2:Favorites

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
PaymentActivity
edu.udayton.electriccarfinancing (androidTest)
edu.udayton.electriccarfinancing (test)
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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

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

txtPaymentTitle
foreground
foregroundGravity
freezesText
gravity
hapticFeedbackEnabled
height
hint
id txtPaymentTitle
imeActionId
imeActionLabel
imeOptions
includeFontPadding
inputMethod
inputType
isScrollContainer
keepScreenOn
lastBaselineToBottomHei
layerType
layout_gravity
layout_height wrap_content
layout_margin [?, ?, @dimen/txtPaymentTitleTopMargin]
layout_margin
layout_marginLeft
layout_marginTop dimen/txtPaymentTitleTopMargin
layout_marginRight
layout_marginBottom
layout_weight
layout_width match_parent
lineHeight
lineSpacingExtra
lineSpacingMultiplier
lines

Component Tree
LinearLayout(vertical)
Ab txtPaymentTitle "@string/txt..."

Design Text

Logcat TODO Terminal Build Event Log

Source generation ended in 1 s 109 ms (3 minutes ago)

Expand the gravity attribute

The screenshot shows the Android Studio interface with the 'activity_payment.xml' layout file open. The layout consists of a single TextView with the text 'Electric Car Financing' centered. The 'Attributes' panel on the right shows various properties for this TextView, including 'gravity' which is currently set to 'center'. A yellow callout with the text 'Expand the gravity attribute' points to the 'gravity' entry in the list. The 'Component Tree' panel at the bottom shows the structure of the layout: a LinearLayout containing a TextView. The 'Design' tab is selected at the bottom.

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

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

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

1:Project Resource Manager

Palette Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Component Tree

LinearLayout(vertical)

Ab txtPaymentTitle "@string/txt..."

txtPaymentTitle

foreground

foregroundGravity

freezesText

gravity

center

clip_horizontal

center

Set the gravity as 'center'

center

clip_vertical

start

right

center_horizontal

fill

fill_horizontal

top

left

center_vertical

fill_vertical

end

hapticFeedbackEnabled

height

hint

id

imeActionId

imeActionLabel

imeOptions

includeFontPadding

inputMethod

inputType

isScrollContainer

keepScreenOn

lastBaselineToBottomHei

layerType

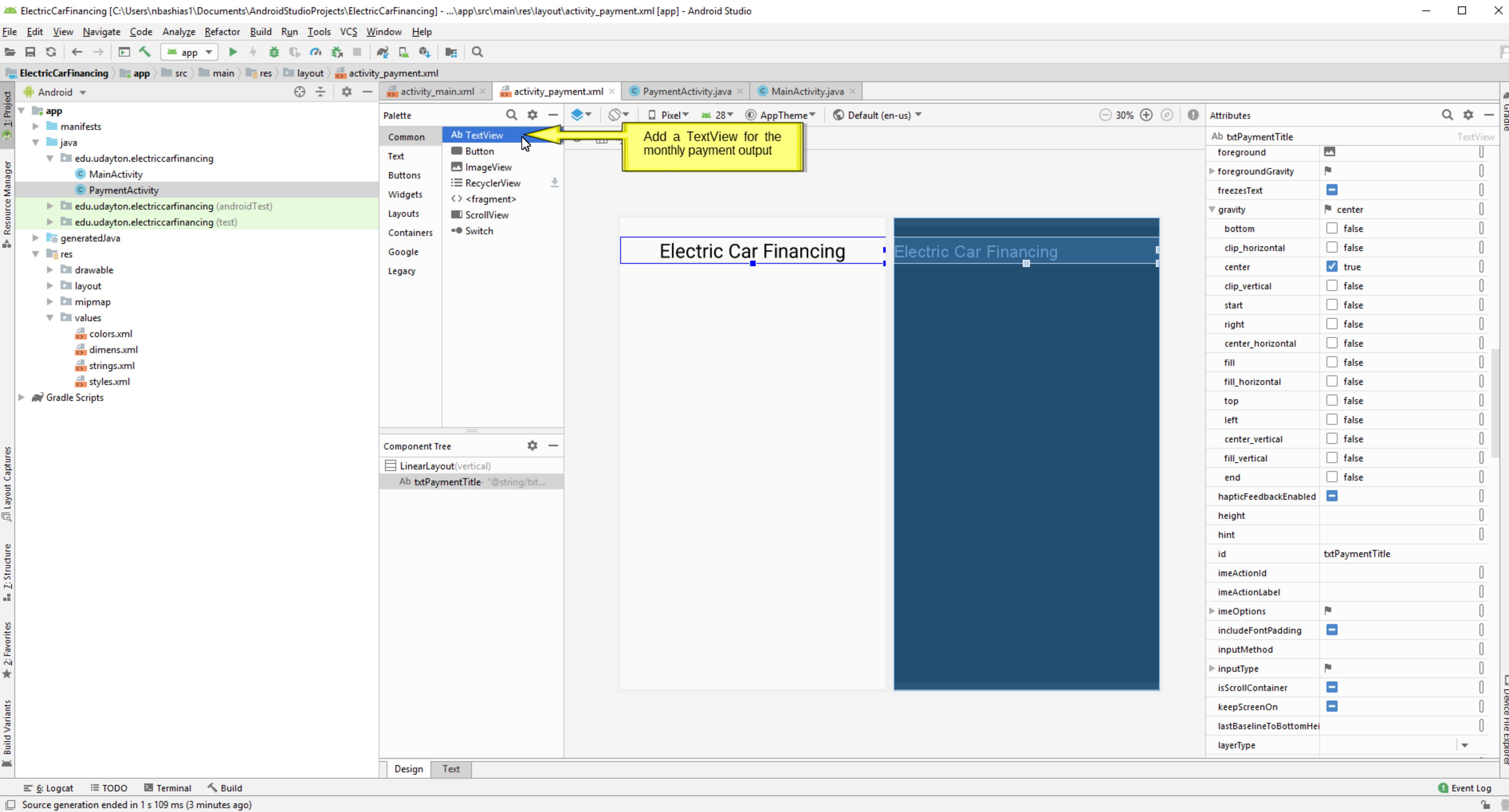
Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (3 minutes ago)

Event Log

The screenshot shows the Android Studio interface for editing the 'activity_payment.xml' layout file. The layout consists of a single 'LinearLayout' with a vertical orientation, containing a single 'TextView' with the ID 'txtPaymentTitle'. The 'txtPaymentTitle' view is centered horizontally within its parent layout. The 'Attributes' panel on the right shows the 'center' attribute under the 'gravity' section is checked. A yellow callout box with the text 'Set the gravity as 'center'' has an arrow pointing to the checked 'center' checkbox. The 'Component Tree' panel at the bottom left shows the same structure: 'LinearLayout(vertical)' containing 'Ab txtPaymentTitle "@string/txt..."'.



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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project

Resource Manager

1: Favorites

Build Variants

Layout Captures

2: Structure

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (3 minutes ago)

Event Log

Android

app manifests java edu.udayton.electriccarfinancing MainActivity PaymentActivity 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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Add TextView to Design Enter
✓ Favorite Android Documentation Shift+F1 Material Guidelines

Component Tree

LinearLayout(vertical)
Ab txtPaymentTitle "@string/txt..."

Attributes

txtPaymentTitle TextView
foreground image
foregroundGravity flag
freezesText flag
gravity center
bottom false
clip_horizontal false
center true
clip_vertical false
start false
right false
center_horizontal false
fill false
fill_horizontal false
top false
left false
center_vertical false
fill_vertical false
end false
hapticFeedbackEnabled flag
height
hint
id txtPaymentTitle
imeActionId
imeActionLabel
imeOptions flag
includeFontPadding flag
inputMethod
inputType
isScrollContainer flag
keepScreenOn flag
lastBaselineToBottomHei
layerType

Design Text

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

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

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

1:Project

Resource Manager

Component Tree

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (3 minutes ago)

Event Log

Android

app manifests java edu.udayton.electriccarfinancing MainActivity PaymentActivity edu.udayton.electriccarfinancing (androidTest) edu.udayton.electriccarfinancing (test) 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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

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

Ab TextView

Ab Button

Ab ImageView

Ab RecyclerView

Ab <fragment>

Ab ScrollView

Ab Switch

Change this TextView's ID

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text TextView

text

contentDescription

textAppearance @android:style/TextAppeara

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary_text

textStyle B I Tr

All Attributes

alpha

autoLink

autoSizeMaxTextSize

autoSizeMinTextSize

autoSizePresetSizes

autoSizeStepGranularity

autoSizeTextType

autoText

background

bufferType

Component Tree

LinearLayout(vertical)

Ab txtPaymentTitle- "@string/txt..."

Ab textView2- "TextView"

Electric Car Financing

Electric Car Financing

Device File Explorer

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

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

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

1:Project

Resource Manager

2: Favorites

Build Variants

Layout Captures

2: Structure

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (4 minutes ago)

Activity Layout Editor for activity_payment.xml

Palette: Common (TextView, Button, ImageView, RecyclerView, <fragment>, ScrollView, Switch)

Component Tree: LinearLayout(vertical) containing TextView (txtPaymentTitle) and TextView (txtMonthlyPayment)

Design View: Two TextViews labeled "Electric Car Financing" and "TextView". The second TextView is selected.

Text View: The selected TextView has its text attribute set to "TextView".

Attributes Panel:

- Declared Attributes:
 - id: txtMonthlyPayment
- Layout:
 - layout_width: match_parent
 - layout_height: wrap_content
 - layout_weight: 0.0
 - visibility: visible
- Common Attributes:
 - text: TextView
 - text: TextView
 - contentDescription: style/TextAppearing
 - fontFamily: sans-serif
 - type: Text
 - text: TextView
 - lineSpacingExtra: 0dp
 - textColor: @android:color/secondary_text
 - textStyle: B I Tr
- All Attributes: alpha, autoLink, autoSizeMaxTextSize, autoSizeMinTextSize, autoSizePresetSizes, autoSizeStepGranularity, autoSizeTextType, autoText, background, bufferType

A yellow callout box with an arrow points to the "text" attribute in the Common Attributes section, with the following note:

This output TextView will have no initial text, so select and delete its text attribute's value

Gradle

Device File Explorer

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

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

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

1:Project Resource Manager

Electric Car Financing

Electric Car Financing

Activity Layout Editor

Palette:

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

Component Tree:

- LinearLayout(vertical)
 - Ab txtPaymentTitle- "@string/txt..."
 - Ab txtMonthlyPayment

Attributes:

- Ab txtMonthlyPayment
- id txtMonthlyPayment
- Declared Attributes
- Layout
 - layout_width match_parent
 - layout_height wrap_content
 - layout_weight
 - visibility
 - ✓ visibility
- Common Attributes
 - text
 - ✓ text
 - contentDescription
 - textAppearance
 - @android:style/TextAppeara...
 - fontFamily
 - typeface
 - textSize 14sp
 - lineSpacingExtra
 - textColor @android:color/secondary_text
 - textStyle
- All Attributes
 - alpha
 - autoLink
 - autoSizeMaxTextSize
 - autoSizeMinTextSize
 - autoSizePresetSizes
 - autoSizeStepGranularity
 - autoSizeTextType
 - autoText
 - background
 - bufferType

Use the Resources manager to set the output text size

Gradle

Device File Explorer

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

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

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

1:Project Resource Manager

Activity Main XML Activity Payment XML PaymentActivity.java MainActivity.java

Attributes

Name: txtMonthlyPaymentTextSize
Default: 25sp

Declared Attributes

Layout

Common Attributes

Text

Button

Widget

Layouts

Containers

Google

Legacy

Components

Lines

Ab

Ab

1. Select the txtMonthlyPaymentTextSize dimension resource

OK Cancel

2. Click OK

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (4 minutes ago)

Event Log

This screenshot shows the Android Studio interface for editing a dimension resource in the R.java file. The 'Resources' dialog is open, displaying a list of dimension resources. A yellow arrow points to the 'txtMonthlyPaymentTextSize' entry, which has a value of '25sp'. A second yellow box contains the instruction '1. Select the txtMonthlyPaymentTextSize dimension resource'. Below the list is an 'OK' button with a mouse cursor over it, and a 'Cancel' button. A second yellow box below the 'OK' button contains the instruction '2. Click OK'. The right side of the screen shows the 'Attributes' panel for the selected resource, listing various properties like 'id', 'layout_width', 'text', etc., with their current values.

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

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

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

1:Project Resource Manager

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
PaymentActivity
edu.udayton.electriccarfinancing (androidTest)
edu.udayton.electriccarfinancing (test)
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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

Attributes
Ab txtMonthlyPayment
id txtMonthlyPayment
Declared Attributes
Layout
layout_width match_parent
layout_height wrap_content
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

Component Tree
LinearLayout(vertical)
Ab txtPaymentTitle- "@string/txt...
Ab txtMonthlyPayment

Design Text

Electric Car Financing

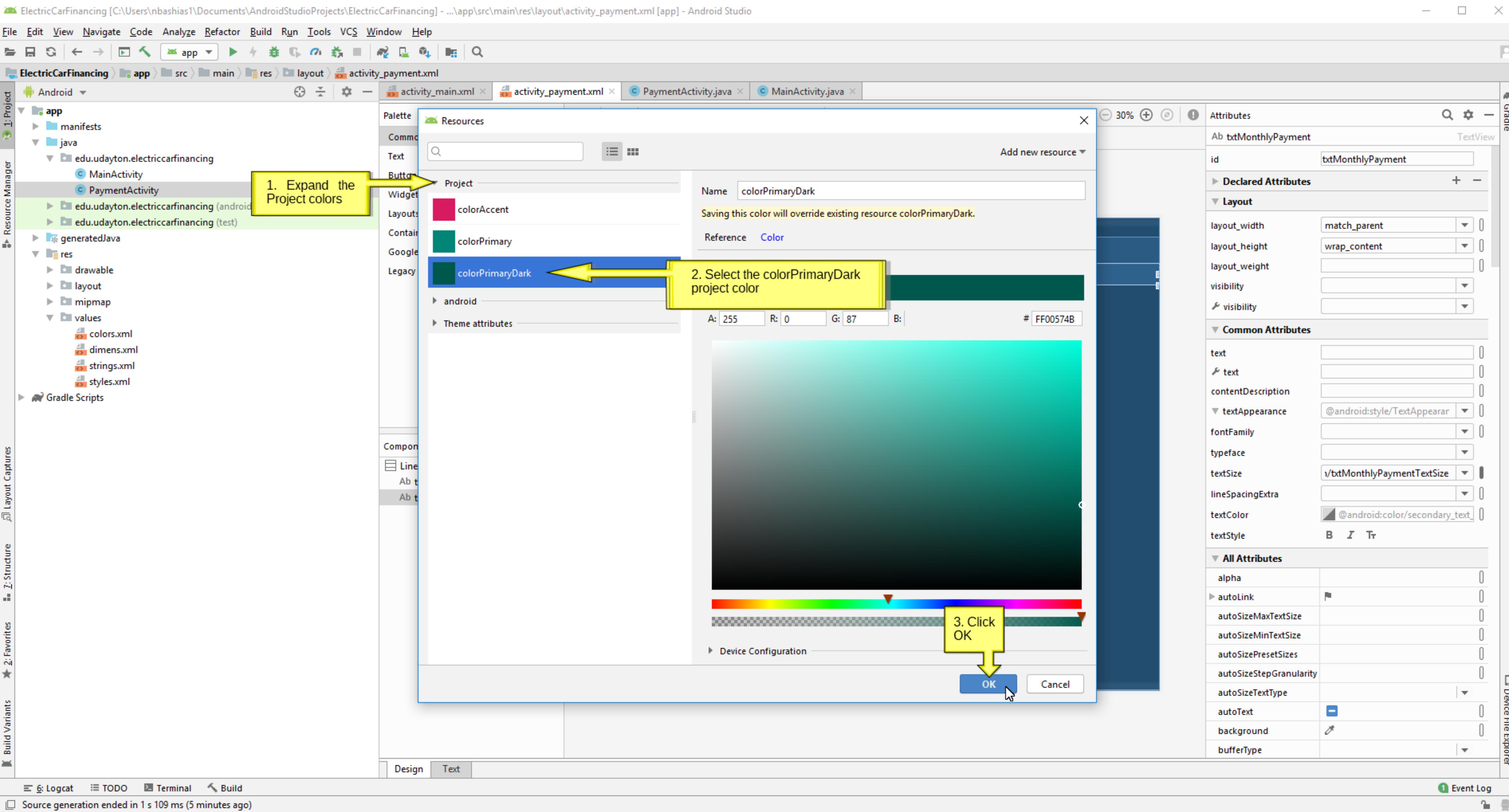
Electric Car Financing

Use the Resources manager to change the output text color (but not to black)

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (5 minutes ago)

Event Log



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

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

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

1:Project Resource Manager

Attributes

Ab txtMonthlyPayment
layout_height wrap_content
layout_margin [?, ?, ?, ?, ?]
layout_weight
layout_width match_parent
lineHeight
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

Common Text Buttons Widgets Layouts Containers Google Legacy

Component Tree

LinearLayout(vertical)
Ab txtPaymentTitle- "@string/txt...
Ab txtMonthlyPayment

Design Text

Expand the layout_margin attribute group

Source generation ended in 1 s 109 ms (5 minutes ago)

Event Log

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

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

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

1:Project Resource Manager

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
PaymentActivity
edu.udayton.electriccarfinancing (androidTest)
edu.udayton.electriccarfinancing (test)
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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

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

txtMonthlyPayment
layout_height wrap_content
layout_margin [?, ?, ?, ?, ?]
layout_margin
layout_marginLeft
layout_marginTop
layout_marginRight
layout_marginBottom
layout_weight match_parent
lineHeight
lineSpacingExtra
lineSpacingMultiplier
lines
linksClickable
longClickable
marqueeRepeatLimit
maxEms
maxHeight
maxLength
maxLines
maxWidth
minEms
minHeight
minLines
minWidth
nextFocusDown
nextFocusForward
nextFocusLeft
nextFocusRight
nextFocusUp
numeric
onClick

Component Tree
LinearLayout(vertical)
txtPaymentTitle
txtMonthlyPayment

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (5 minutes ago)

Event Log

Use the Resources manager to set the top margin

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager

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

Gradle Scripts

Layout Captures

2:Structure

Build Variants Favorites

Design Text

Resources

Add new resource

Name: txtMnthalPaymentTopMargin

Default 40dp

txtMnthalPaymentTopMargin 40dp

txtMonthlyPaymentTextSize 25sp

txtPaymentTitleTextSize 30sp

txtPaymentTitleTopMargin 30dp

yearSpinnerTopMargin 20dp

android

app_icon_size 48dip

dialog_min_width_major 55%

OK Cancel

Attributes

Ab txtMonthlyPayment TextView

layout_height wrap_content

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

layout_margin layout_marginLeft

layout_marginTop layout_marginRight

layout_marginBottom layout_weight

layout_width match_parent

lineHeight

lineSpacingExtra

lineSpacingMultiplier

lines

linksClickable

longClickable

marqueeRepeatLimit

maxEms

maxHeight

maxLength

maxLines

maxWidth

minEms

minHeight

minLines

minWidth

nextFocusDown

nextFocusForward

nextFocusLeft

nextFocusRight

nextFocusUp

numeric

onClick

30% 30% 30%

1. Select the txtMonthlyPaymentTopMargin dimension resource

2. Click OK

Source generation ended in 1 s 109 ms (5 minutes ago)

Event Log

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

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

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

1:Project Resource Manager

Attributes

Ab txtMonthlyPayment
layout_height wrap_content
layout_margin [?, ?, @dimen/txtMnthlyPaymentTopM:
layout_marginLeft
layout_marginTop @dimen/txtMnthlyPaymentTopMa:
layout_marginRight
layout_marginBottom
layout_weight
layout_width match_parent
lineHeight
lineSpacingExtra
lineSpacingMultiplier
lines
linksClickable
longClickable
marqueeRepeatLimit
maxEms
maxHeight
maxLength
maxLines
maxWidth
minEms
minHeight
minLines
minWidth
nextFocusDown
nextFocusForward
nextFocusLeft
nextFocusRight
nextFocusUp
numeric
onClick

Gradle

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

Ab txtPaymentTitle- "@string/txt...
Ab txtMonthlyPayment

Design Text

Add an ImageView to show an image reflecting the number of years

Electric Car Financing

Electric Car Financing

Source generation ended in 1 s 109 ms (6 minutes ago)

Event Log

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

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

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

1:Project Resource Manager

Android

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

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
RecyclerView
<> <fragment>
ScrollView
Switch

Pixel 28 AppTheme Default (en-us)

Attributes

Ab txtMonthlyPayment
layout_height wrap_content
layout_margin [?, ?, @dimen/txtMnthlyPaymentTopM:
layout_marginLeft
layout_marginTop @dimen/txtMnthlyPaymentTopMa:
layout_marginRight
layout_marginBottom
layout_weight
layout_width match_parent
lineHeight
lineSpacingExtra
lineSpacingMultiplier
lines
linksClickable
longClickable
marqueeRepeatLimit
maxEms
maxHeight
maxLength
maxLines
maxWidth
minEms
minHeight
minLines
minWidth
nextFocusDown
nextFocusForward
nextFocusLeft
nextFocusRight
nextFocusUp
numeric
onClick

30% 30%

Add to Design Enter
✓ Favorite
Android Documentation Shift+F1
Material Guidelines

Component Tree

LinearLayout(vertical)
Ab txtPaymentTitle- "@string/txt...
Ab txtMonthlyPayment

Design Text

Electric Car Financing

Electric Car Financing

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (6 minutes ago)

Event Log

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

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

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

1:Project Resource Manager

Android

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

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Resources

Add new resource

Drawable

Sample data
avatars
backgrounds/scenic
android
Theme attributes

No Preview

OK Cancel

Attributes

txtMonthlyPayment
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
numeric
onClick

As we did with the Picture activity in Part 3 of Lesson 5, we are simply setting a placeholder image for this ImageView. The actual image displayed will be set in PaymentActivity.java (Part 4 of this lesson).

Expand the Project drawables (images)

Device File Explorer

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

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

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

1:Project Resource Manager

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Attributes

Name: opening

Default PNG

Sample data

avatars

backgrounds/scenic

Project

- five
- four
- ic_launcher
- ic_launcher_background
- ic_launcher_foreground
- ic_launcher_foreground
- ic_launcher_round
- opening
- three

@drawable/opening
=> opening.png

1. Select the 'opening' drawable resource

2. Click OK

OK Cancel

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (6 minutes ago)

Event Log

Gradle Device File Explorer

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

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

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

1:Project Resource Manager

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
PaymentActivity
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)
txtPaymentTitle
txtMonthlyPayment
imageView

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

Pixel 28 AppTheme Default (en-us)

30% Attributes
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

Change the ImageView's ID
imgYears

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (6 minutes ago)

Event Log

The screenshot shows the Android Studio interface for the 'activity_payment.xml' layout file. The layout consists of two columns. The left column has a white background and contains a title 'Electric Car Financing' and a text input field labeled 'txtPaymentTitle'. The right column has a dark blue background and contains a title 'Electric Car Financing' and an 'ImageView' placeholder with the text 'ImageView'. A yellow callout box points to the 'imgYears' ID in the Attributes panel, with the text 'Change the ImageView's ID' overlaid. The 'attività_payment.xml' tab is selected in the top navigation bar. The bottom navigation bar includes tabs for Logcat, TODO, Terminal, Build, Design, and Text.

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

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

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

1:Project Resource Manager

Android

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

Layout Captures

2:Structure Favorites Build Variants

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

Pixel 28 AppTheme Default (en-us)

Attributes
imgYears ImageView
id imgYears
Declared Attributes
Layout
layout_width match_parent
layout_height wrap_content
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

30% 30% 30%

Electric Car Financing

Electric Car Financing

imgYears

Use the Resources manager to set the ImageView's layout_width

ImageView

Component Tree
LinearLayout(vertical)
txtPaymentTitle
txtMonthlyPayment
imgYears

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (6 minutes ago)

Event Log

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager

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

Resource Manager

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Attributes

imgYears

id imgYears

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

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (6 minutes ago)

Event Log

Resources

Add new resource

Name: imgYearsWidth

Default 350dp

1. Select the imgYearsWidth 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%

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

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

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

1:Project Resource Manager

Android

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

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

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

imgYears ImageView

id imgYears
Declared Attributes
Layout
layout_width @dimen/imgYearsWidth
layout_height wrap_content
layout_weight
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

Use the Resources manager to set the ImageView's layout_height

Electric Car Financing

Electric Car Financing

ImageView

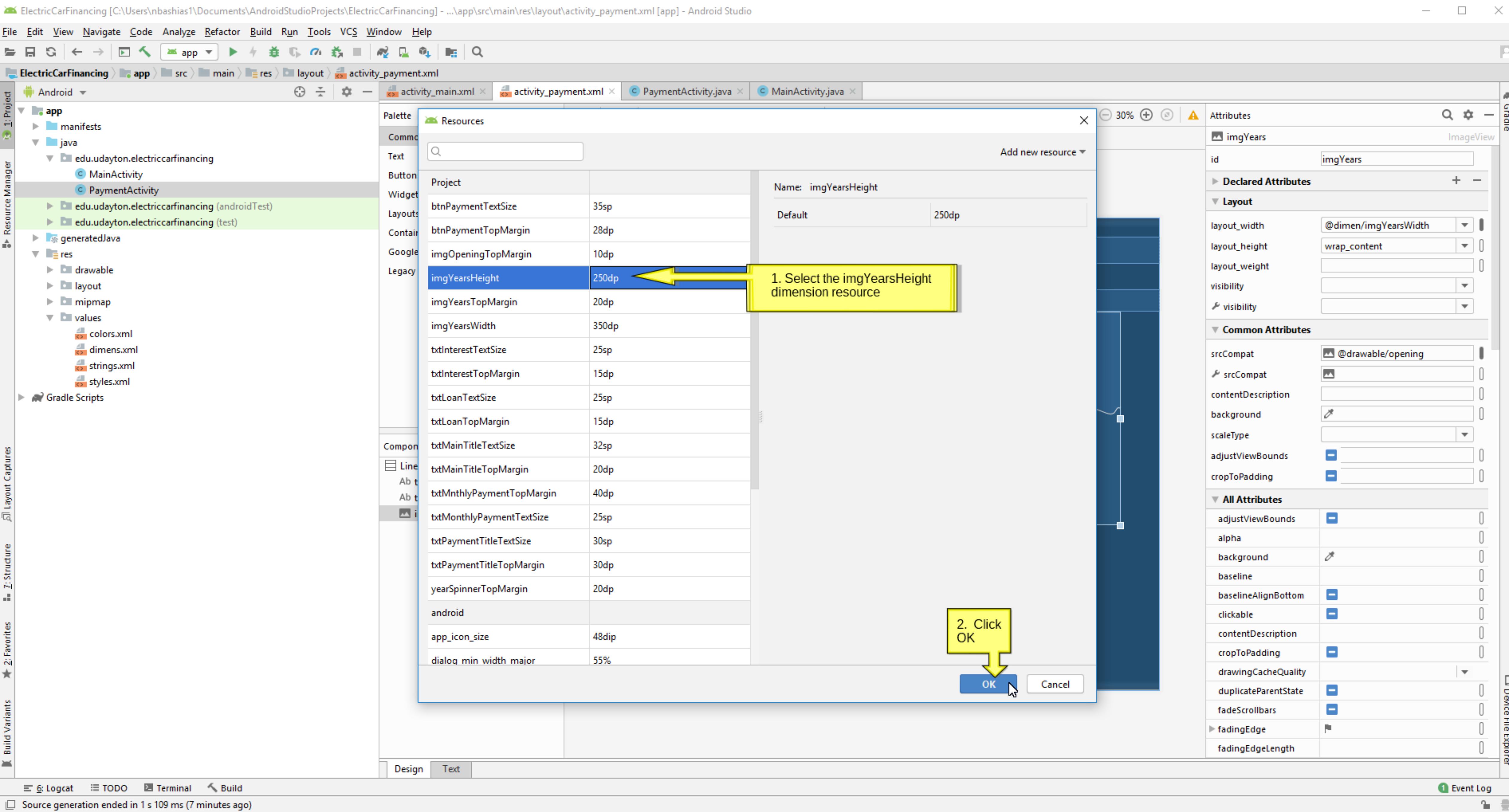
Component Tree
LinearLayout(vertical)
txtPaymentTitle
txtMonthlyPayment
imgYears

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (7 minutes ago)

Event Log



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

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

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

1:Project Resource Manager

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
PaymentActivity
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)
txtPaymentTitle
txtMonthlyPayment
imgYears

Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

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

imgYears

id imgYears

Declared Attributes

Layout

layout_width @dimen/imgYearsWidth
layout_height @dimen/imgYearsHeight
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

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

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (7 minutes ago)

Event Log

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager

Android

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

Resource Manager

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Attributes

imgYears

id imgYears

Declared Attributes

Layout

layout_width @dimen/imgYearsWidth

layout_height @dimen/imgYearsHeight

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

Resources

Add new resource

Name: imgYearsDescription

Default Number of Years Image

1. Select the imgYearsDescription string resource

2. Click OK

OK Cancel

EDIT TRANSLATIONS

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (7 minutes ago)

Event Log

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

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

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

1:Project Resource Manager

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MainActivity
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edu.udayton.electriccarfinancing (androidTest)
edu.udayton.electriccarfinancing (test)
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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
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Legacy

Component Tree
LinearLayout(vertical)
txtPaymentTitle
txtMonthlyPayment
imgYears

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

imgYears
layout_height @dimen/imgYearsHeight
layout_margin [?, ?, ?, ?, ?]
layout_weight
layout_width @dimen/imgYearsWidth
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
scrollbarDefaultDelayBef 400
scrollbarFadeDuration 250
scrollbarSize 4dp

Design Text

Expand the layout_margin attribute group

Electric Car Financing

Electric Car Financing

ImageView

The screenshot shows the Android Studio interface for editing the 'activity_payment.xml' layout file. The layout consists of a vertical LinearLayout containing three components: a title, a text input, and an ImageView. The ImageView displays a hand holding a pen writing a car outline. A yellow callout box with the text 'Expand the layout_margin attribute group' points to the 'layout_margin' attribute in the Attributes panel, which is currently set to '[?, ?, ?, ?, ?]'. The Attributes panel also lists other properties like layout_height, layout_width, and scroll-related settings. The Project, Resource Manager, and Component Tree toolbars are visible on the left, and various tabs like Logcat, TODO, Terminal, and Event Log are at the bottom.

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

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

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

1:Project Resource Manager

Android

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

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

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

imgYears
layout_height @dimen/imgYearsHeight
layout_margin [?, ?, ?, ?, ?]
layout_margin
layout_marginLeft
layout_marginTop
layout_marginRight
layout_marginBottom
layout_weight
layout_width @dimen/in
longClickable
maxHeight
maxWidth
minHeight
minWidth
nextFocusDown
nextFocusForward
nextFocusLeft
nextFocusRight
nextFocusUp
onClick
overScrollMode
padding [?, ?, ?, ?, ?]
requiresFadingEdge
rotation
rotationX
rotationY
saveEnabled
scaleType
scaleX
scaleY
scrollX
scrollY

Design Text

Logcat TODO Terminal Build Event Log

Source generation ended in 1 s 109 ms (7 minutes ago)

The screenshot shows the Android Studio interface for editing the layout file 'activity_payment.xml'. The left sidebar displays the project structure, and the top navigation bar includes File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, and Help. The main workspace shows the 'Design' tab of the layout editor. The layout consists of a white vertical linear layout containing a title 'Electric Car Financing' and two buttons labeled 'txtPaymentTitle' and 'txtMonthlyPayment'. Below this is an 'ImageView' containing a hand holding a pen drawing a car's outline. The right side of the screen shows the XML code for the layout, with the 'imgYears' ImageView highlighted. 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. The bottom navigation bar includes Logcat, TODO, Terminal, Build, Event Log, and a status message indicating source generation ended 7 minutes ago.

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

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

ElectricCarFinancing app src main res layout activity_payment.xml

1:Project Resource Manager

Android

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

Resource Manager

1:Structure Layout Captures

2:Favorites Build Variants

activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

Attributes

imgYears ImageView layout_height @dimen/imgYearsHeight layout_margin [?, ?, ?, ?, ?] layout_marginLeft layout_marginRight layout_marginTop layout_marginBottom layout_weight layout_width @dimen/imgYearsWidth longClickable maxHeight maxWidth minHeight minWidth nextFocusDown nextFocusForward nextFocusLeft nextFocusRight nextFocusUp onClick overScrollMode padding [?, ?, ?, ?, ?] requiresFadingEdge rotation rotationX rotationY saveEnabled scaleType scaleX scaleY scrollX scrollY

Gradle

Resources

Add new resource

Name: imgYearsTopMargin

Default 20dp

1. Select the imgYearsTopMargin dimension resource

2. Click OK

OK Cancel

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (7 minutes ago)

Event Log

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

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

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

1:Project Resource Manager

Palette Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Activity_main.xml activity_payment.xml PaymentActivity.java MainActivity.java

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

imgYears ImageView

keepScreenOn layerType

layout_gravity layout_height

layout_margin layout_marginLeft

layout_marginTop @dimen/imgYearsTopMargin

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

Expand the layout_gravity attribute

Electric Car Financing

Electric Car Financing

ImageView

Component Tree

LinearLayout(vertical)

txtPaymentTitle "@string/txt..."

txtMonthlyPayment

imgYears

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (8 minutes ago)

Event Log

Gradle Device File Explorer

The screenshot shows the Android Studio interface with the project 'ElectricCarFinancing' open. The 'activity_payment.xml' layout file is selected. The layout itself is a vertical linear layout containing three components: a text view with the title 'Electric Car Financing', another text view for monthly payment information, and an image view displaying a hand-drawn style illustration of a car's front end. The 'Attributes' panel on the right shows various properties for the 'imgYears' ImageView, with a yellow callout box highlighting the 'layout_gravity' attribute. The 'Component Tree' panel on the left shows the structure of the layout. The bottom navigation bar has 'Design' and 'Text' tabs, with 'Design' currently selected.

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

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

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

1:Project Resource Manager

Android

app
manifests
java
edu.udayton.electriccarfinancing
MainActivity
PaymentActivity
edu.udayton.electriccarfinancing (androidTest)
edu.udayton.electriccarfinancing (test)
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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy

Pixel 28 AppTheme Default (en-us)

Attributes

imgYears
keepScreenOn
layerType
layout_gravity
center_horizontal
bottom
clip_horizontal
center
clip_vertical
start
right
center_horizontal
fill
fill_horizontal
end
layout_height
layout_margin
layout_marginLeft
layout_marginTop
layout_marginRight
layout_marginBottom
layout_weight
layout_width
longClickable
maxHeight
maxWidth
minHeight
minWidth
nextFocusDown

30%

30% 30% 30%

Electric Car Financing

Electric Car Financing

ImageView

Component Tree

LinearLayout(vertical)
txtPaymentTitle
txtMonthlyPayment
imgYears

Design Text

Logcat TODO Terminal Build

Source generation ended in 1 s 109 ms (8 minutes ago)

Event Log

Set the layout_gravity to center_horizontal

A screenshot of the Android Studio interface showing the layout editor for the 'activity_payment.xml' file. The layout consists of a vertical LinearLayout containing three elements: a title TextView, a monthly payment TextView, and an ImageView. The ImageView displays a hand holding a pen writing a signature. A yellow callout box with an arrow points to the 'center_horizontal' attribute in the Attributes panel, which is currently set to 'true'. A tooltip says 'Set the layout_gravity to center_horizontal'. The 'Design' tab is selected at the bottom.

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

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

ElectricCarFinancing app src main res layout activity_payment.xml [app] C:\Users\nbashias1\Documents\AndroidStudioProjects\ElectricCarFinancing\app\src\main\java\edu\udayton\electriccarfinancing>MainActivity.java

1:Project Resource Manager

Android

app manifests java edu.udayton.electriccarfinancing MainActivity PaymentActivity edu.udayton.electriccarfinancing (androidTest) edu.udayton.electriccarfinancing (test) 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 activity_payment.xml PaymentActivity.java MainActivity.java

Palette Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView Button ImageView RecyclerView <fragment> ScrollView Switch

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

imgYears keepScreenOn layerType layout_gravity bottom clip_horizontal center clip_vertical start right center_horizontal fill fill_horizontal top left center_vertical fill_vertical end layout_height layout_margin layout_marginLeft layout_marginTop layout_marginRight layout_marginBottom layout_weight layout_width longClickable maxHeight maxWidth minHeight minWidth nextFocusDown

30%

Attributes

imgYears keepScreenOn layerType layout_gravity bottom clip_horizontal center clip_vertical start right center_horizontal fill fill_horizontal top left center_vertical fill_vertical end layout_height layout_margin layout_marginLeft layout_marginTop layout_marginRight layout_marginBottom layout_weight layout_width longClickable maxHeight maxWidth minHeight minWidth nextFocusDown

Electric Car Financing

This concludes Part 2 of this lesson.

So far in Lesson 7, we have created the project, added a second activity, and customized the layouts of both activities.

In Part 3, we will add the code to MainActivity.java that uses the app's default SharedPreferences file to transmit the input data from MainActivity to the PaymentActivity. Then, in Part 4, we add the code to PaymentActivity.java to use the data from MainActivity to calculate and display the monthly payment.

In this lesson's version of this app, we also add code to MainActivity.java to display previously-entered data (if any) using the same default SharedPreferences file.

View

Design Text

Logcat TODO Terminal Build

Event Log

Source generation ended in 1 s 109 ms (8 minutes ago)