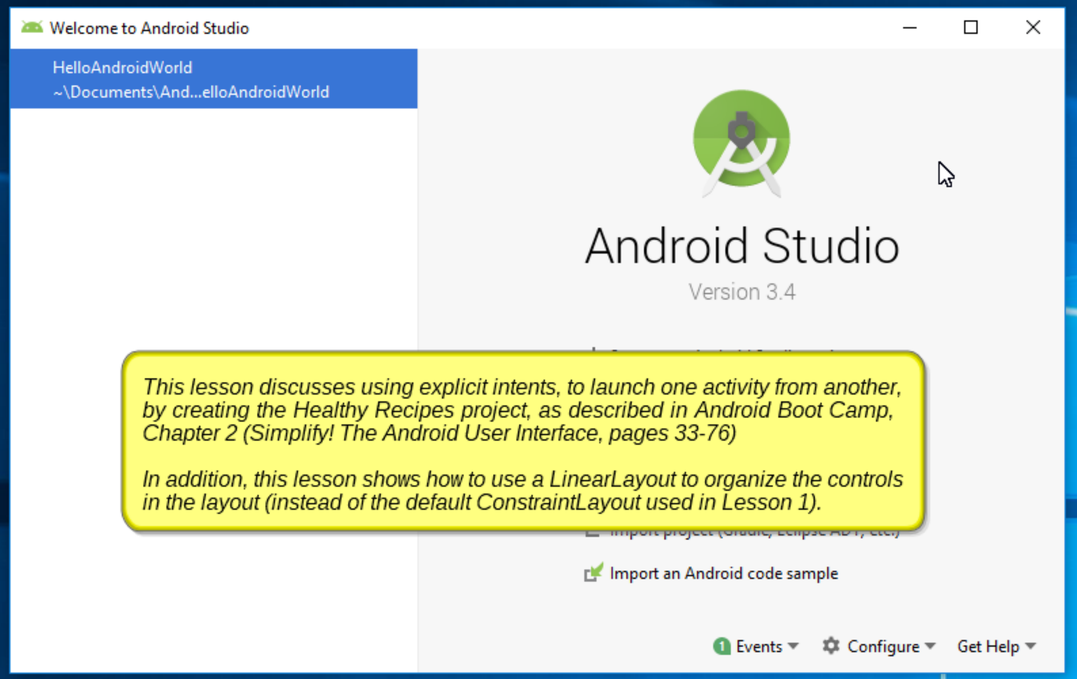
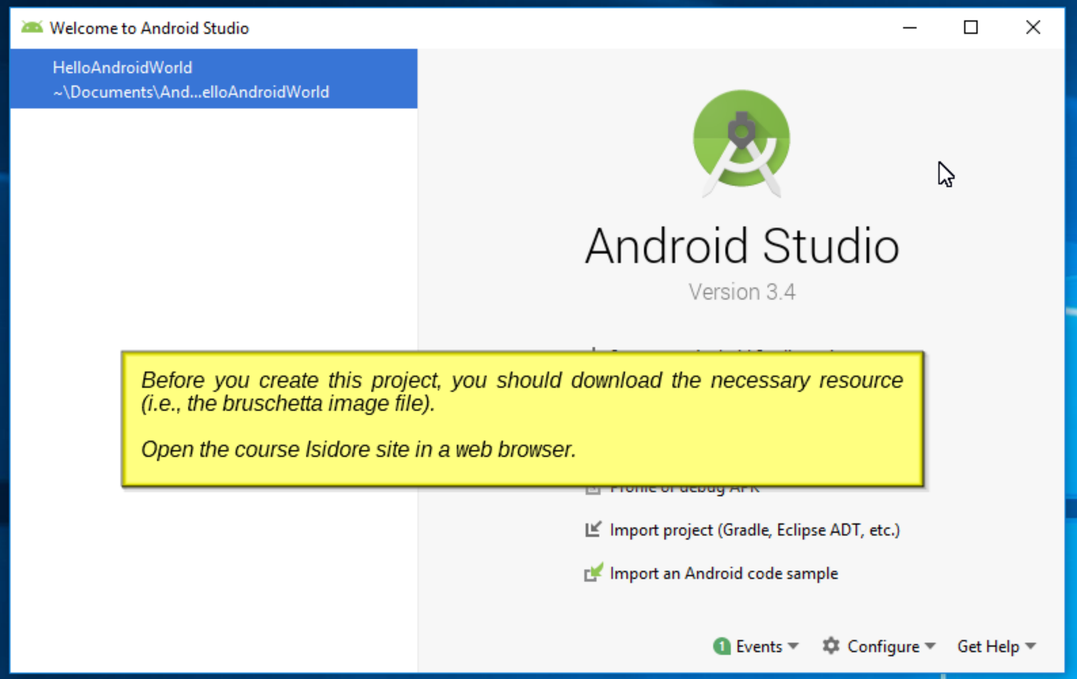


This lesson discusses using explicit intents, to launch one activity from another, by creating the Healthy Recipes project, as described in Android Boot Camp, Chapter 2 (Simplify! The Android User Interface, pages 33-76)

In addition, this lesson shows how to use a LinearLayout to organize the controls in the layout (instead of the default ConstraintLayout used in Lesson 1).



Before you create this project, you should download the necessary resource (i.e., the bruschetta image file).

Open the course Isidore site in a web browser.

Overview
Announcements
Android How Tos
Assigned Work
Downloads
Final Project
Gradebook
Lessons
References
Syllabus
Support

DOWNLOADS

Print view | Index of pages | Link | Help
Back | Next

Downloads > **Android Boot Camp Data Files**

1. Navigate to the Android Boot Camp Data Files page in the Downloads section.

"Chapter 2 Data Files (Google Drive folder)

You can also download these files as a single ZIP file"

2. Click to open the Google Drive folder with the data files for Chapter 2 of Android Boot Camp.

Alternatively, you can click this link to download a zip file containing all Chapter 2 data files.

"Chapter 3 Data Files (Google Drive folder)

You can also download these files as a single ZIP file"

Isidore : 19_SU_FT_CPS_49 | Chapter02 - Google Drive

drive.google.com/drive/folders/0BwMJHp7Ks2pYN0ZFNFJhMlhIYmM

Add your first bookmark by using the heart in the address bar or Import bookmarks now

Drive

Sign in

Chapter02

DOWNLOAD ALL

Files

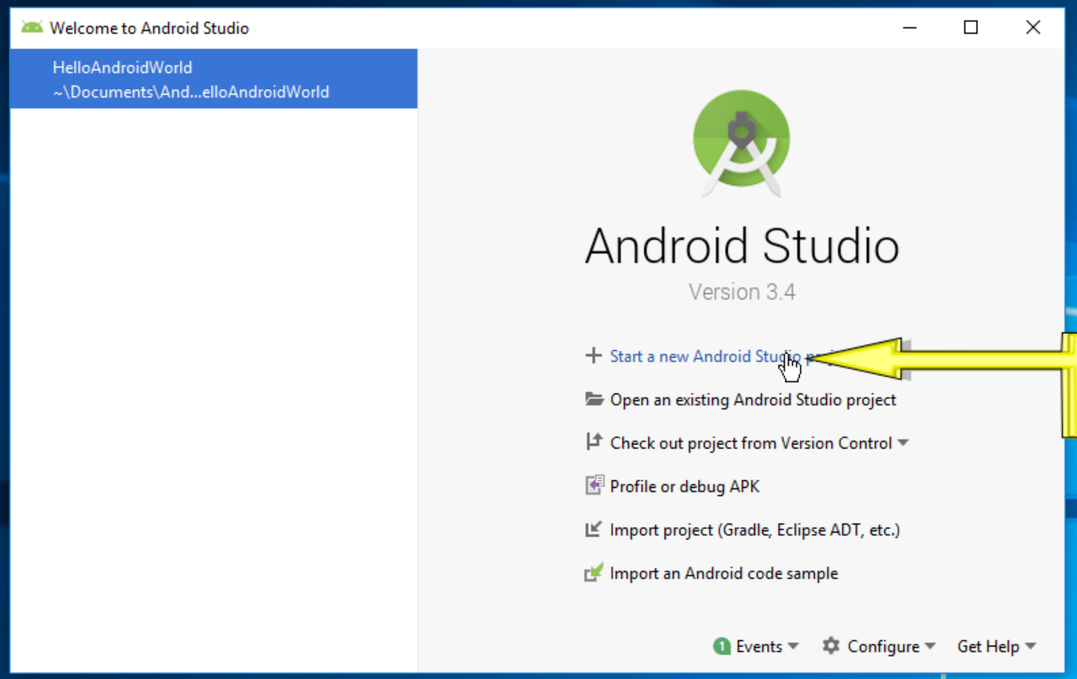
Name

Click to download the bruschetta image file.

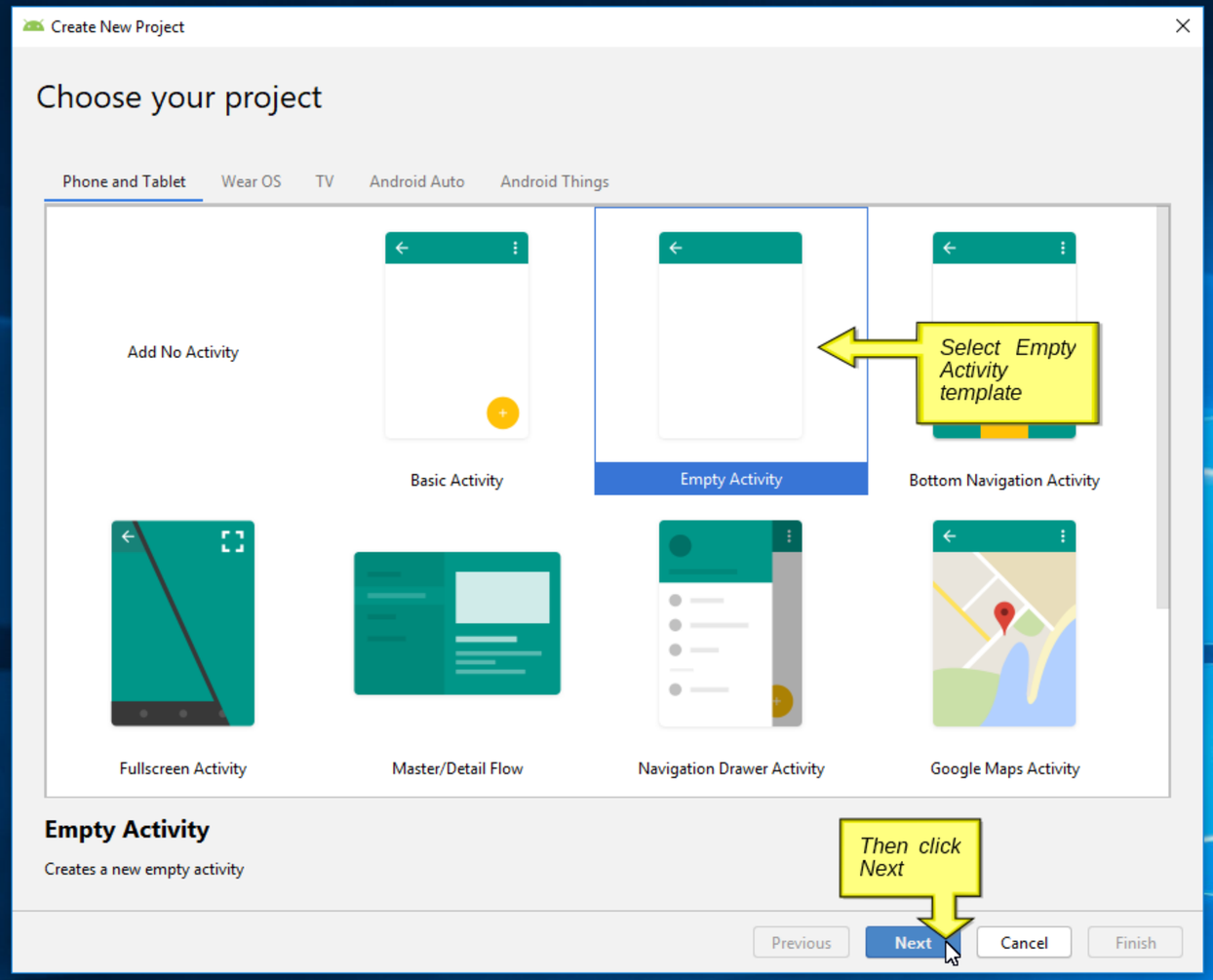
bruschetta.png

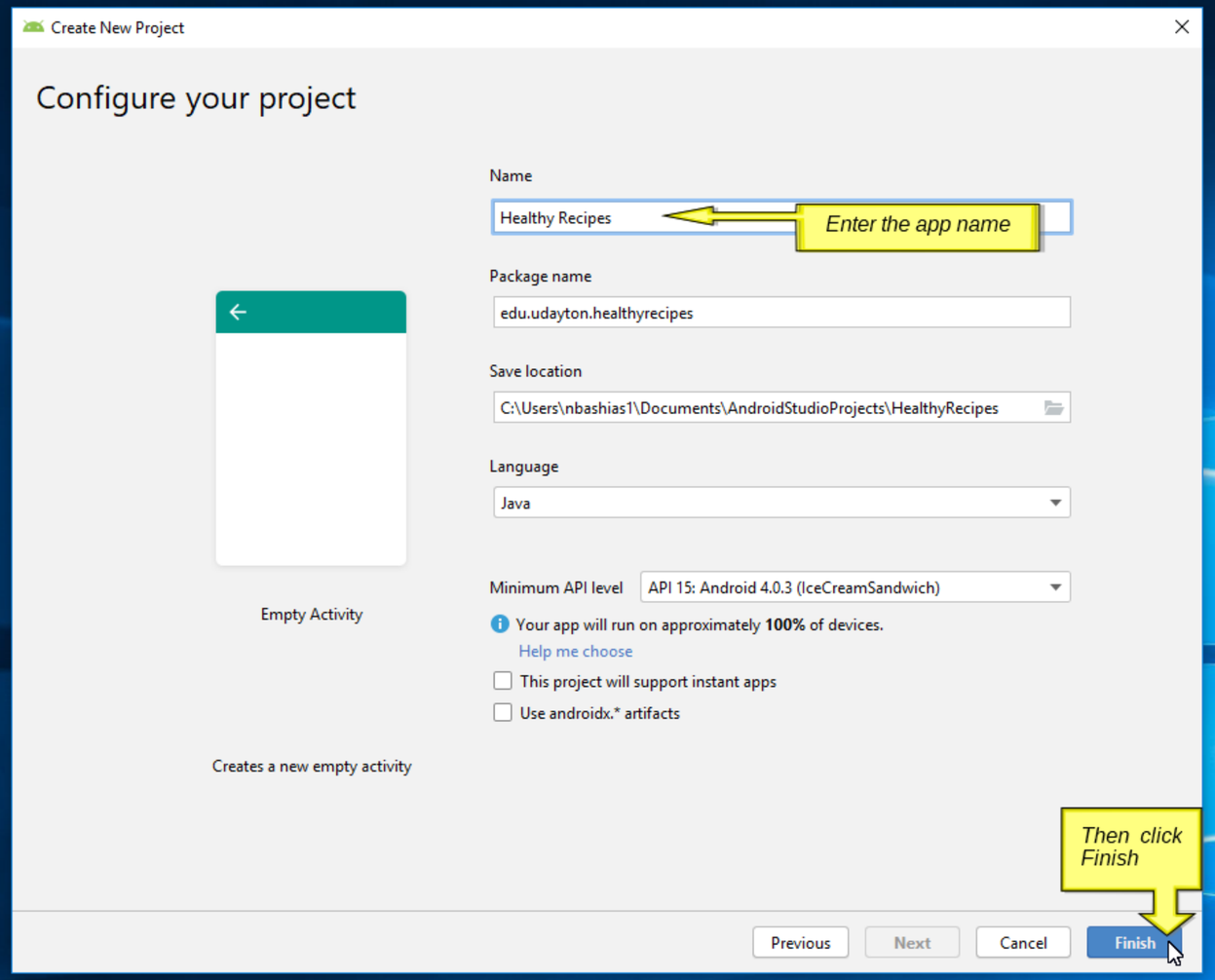
hostel.png

segway.png



Using the same steps as in Lesson 1, create a new Android Studio project named "Healthy Recipes"


Create New Project
Choose your project
Phone and Tablet
Wear OS
TV
Android Auto
Android Things
Add No Activity
Basic Activity
Empty Activity
Bottom Navigation Activity
Select Empty Activity template
Fullscreen Activity
Master/Detail Flow
Navigation Drawer Activity
Google Maps Activity
Empty Activity
Creates a new empty activity
Then click Next
Previous
Next
Cancel
Finish


Create New Project
Configure your project
Name
Healthy Recipes
Enter the app name
Package name
edu.udayton.healthyrecipes
Save location
C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes
Language
Java
Minimum API level
API 15: Android 4.0.3 (IceCreamSandwich)
Your app will run on approximately 100% of devices.
Help me choose
This project will support instant apps
Use androidx.* artifacts
Empty Activity
Creates a new empty activity
Then click Finish
Previous
Next
Cancel
Finish

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

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

app

HealthyRecipes > app > src > main > java > edu > udayton > healthyrecipes > MainActivity

Android

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

activity_main.xml | MainActivity.java

```
package edu.udayton.healthyrecipes;

import ...

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

Tip of the Day

Did you know that you can close tabs in the editor and the tool windows of Android Studio without actually using the context menu commands? It is enough to point with your mouse cursor to a tab to be closed, and click the middle mouse button, or just use the `Shift+click` combination.

Show tips on startup | Previous Tip | Next Tip | Close

Close the Tip of the Day window

Build: Sync

- **Healthy Recipes:** synced successfully at 5/23/2019 1:40 PM — 17 s 802 ms
  - Starting Gradle Daemon — 1 s 941 ms
  - Run build C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes — 15 s 401 ms
    - Load build — 1 s 349 ms
    - Configure build — 6 s 848 ms
    - Calculate task graph — 124 ms
    - Run tasks — 6 s 913 ms

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant

1:1 CRLF UTF-8 4 spaces

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

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

app

HealthyRecipes > app > src > main > java > edu

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

Click its tab to work on the main layout file

Android

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

activity_main.xml

```
1  package edu.udayton.he
2
3  import ...
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
```

Build: Sync

- Healthy Recipes: synced successfully at 5/23/2019 1:40 PM — 17 s 802 ms
  - Starting Gradle Daemon — 1 s 941 ms
  - Run build C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes — 15 s 401 ms
    - Load build — 1 s 349 ms
    - Configure build — 6 s 848 ms
    - Calculate task graph — 124 ms
    - Run tasks — 6 s 913 ms

TODO Terminal Build 6: Logcat Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant

1:1 CRLF UTF-8 4 spaces

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

- ConstraintLayout
  - TextView- "Hello World!"

Pixel | 28 | AppTheme | Default (en-us) | 17% | 8dp

Hello World!

Attributes

No component selected.

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

Design | Text

Hide (Shift+Escape)

As you did in lesson 1, hide the build pane

Build: Sync

- **Healthy Recipes:** synced successfully at 5/23/2019 1:40 PM — 17 s 802 ms
  - Starting Gradle Daemon — 1 s 941 ms
  - Run build C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes — 15 s 401 ms
    - Load build — 1 s 349 ms
    - Configure build — 6 s 848 ms
    - Calculate task graph — 124 ms
    - Run tasks — 6 s 913 ms

TODO | Terminal | Build | 6: Logcat | Event Log

Hide active tool window

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

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

app

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

Android

- app
  - manifests
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      - MainActivity
    - edu.udayton.healthyrecipes (androidTest)
    - edu.udayton.healthyrecipes (test)
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  - res
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activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

TextView

Ab TextView - "Hello World!"

Pixel 28 AppTheme Default (en-us) 33%

8dp

Hello World!

As you did in Lesson 1, delete the "Hello World" TextView

Design | Text

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/TextApp

fontFamily

typeface

textSize: 14sp

lineSpacingExtra

textColor: @android:color/secondary

textStyle

All Attributes

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (a minute ago)

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

ConstraintLayout

Pixel | 28 | AppTheme | Default (en-us) | 33% | 8dp

Attributes

No component selected.

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

Design | Text

Click on the Text tab to switch to Text view so that we can change the layout to a LinearLayout

The LinearLayout is described in Android Boot Camp on page 43, in the section titled "Relative Layouts and Linear Layouts"

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (a minute ago)

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

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

app

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

Android

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    - edu.udayton.healthyrecipes (androidTest)
    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
- Gradle Scripts

activity_main.xml | MainActivity.java

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <android.support.constraint.ConstraintLayout
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".MainActivity"/>
```

Select the full path of the ContraintLayout in the Text View

Then, right-click the selected text ...

android.support.constraint.ConstraintLayout

Design | Text

Preview

AppTheme 34%

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (2 minutes ago)

43 chars 2:45 CRLF UTF-8 4 spaces

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.
3     xmlns:app="http://schemas.and
4     xmlns:tools="http://schemas.a
5     android:layout_width="match_p
6     android:layout_height="match_
7     tools:context=".MainActivity"
```

Cut Ctrl+X
Copy Ctrl+C
Copy as Plain Text
Copy Reference Ctrl+Alt+Shift+C
Paste
Paste from History... Ctrl
Paste without Formatting Ctrl+Alt
Column Selection Mode Alt+Shi
Find Usages Alt+F7
Find Sample Code Alt+F8
Refactor
Folding
Analyze
Search with Google
Go To
Generate... Alt+Insert
Show in Explorer
Open in Terminal
Open in Browser
Validate
Local History
Compare with Clipboard
File Encoding
Generate DTD from XML File
Generate XSD Schema from XML File...
Create Gist...

... and select the Refactor > Rename... menu option

Rename... Shift+F6
Move... F6
Copy... F5
Safe Delete... Alt+Delete
Extract
Inline... Ctrl+Alt+N
Migrate...
Remove Unused Resources...
Migrate App To AppCompat...
Migrate to AndroidX...
Inline Style...
Add RTL Support Where Possible...

Preview

Pixel 28 AppTheme 34% 8dp

android.support.constraint.ConstraintLayout

Design Text

TODO Terminal Build 6: Logcat Event Log

Rename the selected symbol and correct all references

43 chars 2:34 CRLF UTF-8 4 spaces

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <Linear xmlns:android=...apk/res/android"
3 LinearLayout
4 android.support.v7.widget.LinearLayoutCompat
5 Press Ctrl+Space to view tags from other namespaces
6     android:layout_height="match_parent"
7     tools:context=".MainActivity"/>
```

Type "Linear" here ...

Linear

Design | Text

Preview

Pixel 28 AppTheme 35%

Linear

TODO Terminal Build 6: Logcat

Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (2 minutes ago)

2:8 CRLF UTF-8 4 spaces

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <Linear xmlns:android="http://schemas.android.com/apk/res/android"
3      LinearLayout
4      android.support.v7.widget.LinearLayoutCo
5      Press Ctrl+Space to view tags from other namespaces
6          android:layout_height="match_parent"
7          tools:context=".MainActivity"/>
```

... and then select the LinearLayout option from the code completion menu that appears

Linear

Design | Text

Preview

Pixel | 28 | AppTheme | 35%

Linear

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (2 minutes ago)

2:8 CRLF UTF-8 4 spaces

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

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

app

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

Android

- app
  - manifests
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    - edu.udayton.healthyrecipes
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    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
- Gradle Scripts

activity_main.xml | MainActivity.java

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

Hit the Enter key to commit the change

LinearLayout

Design | Text

Preview

Pixel 28 AppTheme 35%

Palette

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (2 minutes ago)

2:14 CRLF UTF-8 4 spaces

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

```xml
<?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"/>
```

Click on its tab to switch back to Design view

Design | Text

Preview

Pixel 28 AppTheme 35%

TODO Terminal Build 6: Logcat

Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (3 minutes ago)

2:14 CRLF UTF-8 4 spaces

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

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

app

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

Android

- app
  - manifests
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    - edu.udayton.healthyrecipes (test)
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  - res
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

LinearLayout (horizontal)

Pixel | 28 | AppTheme | Default (en-us) | 33%

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout_width: match_parent

layout_height: match_parent

visibility

visibility

Common Attributes

orientation

gravity

All Attributes

Notice the LinearLayout's orientation is wrong (it should be vertical, not horizontal)

Select the LinearLayout in the Component Tree

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (3 minutes ago)

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

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

app

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

Android

- app
  - manifests
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- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

LinearLayout(horizontal)

Pixel | 28 | AppTheme | Default (en-us) | 33%

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout_width: match_parent

layout_height: match_parent

visibility

visibility

Common Attributes

orientation

gravity

All Attributes

Click to display the orientation attribute's pull-down menu

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (3 minutes ago)

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

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

app

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

Android

- app
  - manifests
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- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

LinearLayout(horizontal)

Pixel | 28 | AppTheme | Default (en-us) | 33%

... and change the LinearLayout's orientation to vertical

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout_width: match_parent

layout_height: match_parent

visibility

visibility

Common Attributes

orientation: horizontal / vertical

gravity

All Attributes

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (3 minutes ago)

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

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

app

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

Android

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    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

Common: Ab TextView, Button, ImageView, RecyclerView, <fragment>, ScrollView, Switch

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

LinearLayout(vertical)

Using the same steps as in Lesson 1, add a TextView to the layout

Keep in mind that it will be automatically placed at the top of the vertical LinearLayout

33%

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout_width: match_parent

layout_height: match_parent

visibility

visibility

Common Attributes

orientation: vertical

gravity

All Attributes

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (4 minutes ago)

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

Palette

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

Ab TextView
Button
ImageView
RecyclerVie
<fragment>
ScrollView
Switch

Add to Design
Favorite
Android Documentation Shift+F1
Material Guidelines

The new TextView will appear at the top edge of the layout

Pixel | 28 | AppTheme | Default (en-us) | 33%

Component Tree

LinearLayout(vertical)

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout_width: match_parent
layout_height: match_parent
visibility
visibility

Common Attributes

orientation: vertical
gravity

All Attributes

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView - "TextView"

Pixel | 28 | AppTheme | Default (en-us) | 33%

Change the TextView's ID

TextView

TextView

Attributes

titleTextView — TextView

id: titleTextView

Declared Attributes

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

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

All Attributes

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "TextView"

Pixel | 28 | AppTheme | Default (en-us) | 33%

TextView

TextView

Attributes

Ab titleTextView TextView

id: titleTextView

Declared Attributes

Layout

layout_width: match_parent

layout_height: wrap_content

layout_weight

visibility

visibility

Common Attributes

typeface

textSize: 14sp

lineSpacingExtra

textColor: @android:color/secondary_

textStyle

All Attributes

In this lesson, we'll directly add resources for the various attributes (instead of extracting them, as we did in Part 3 of Lesson 1).

We'll start by adding a string resource for the title's text

Click this button (next to the text attribute) to display the Resource manager

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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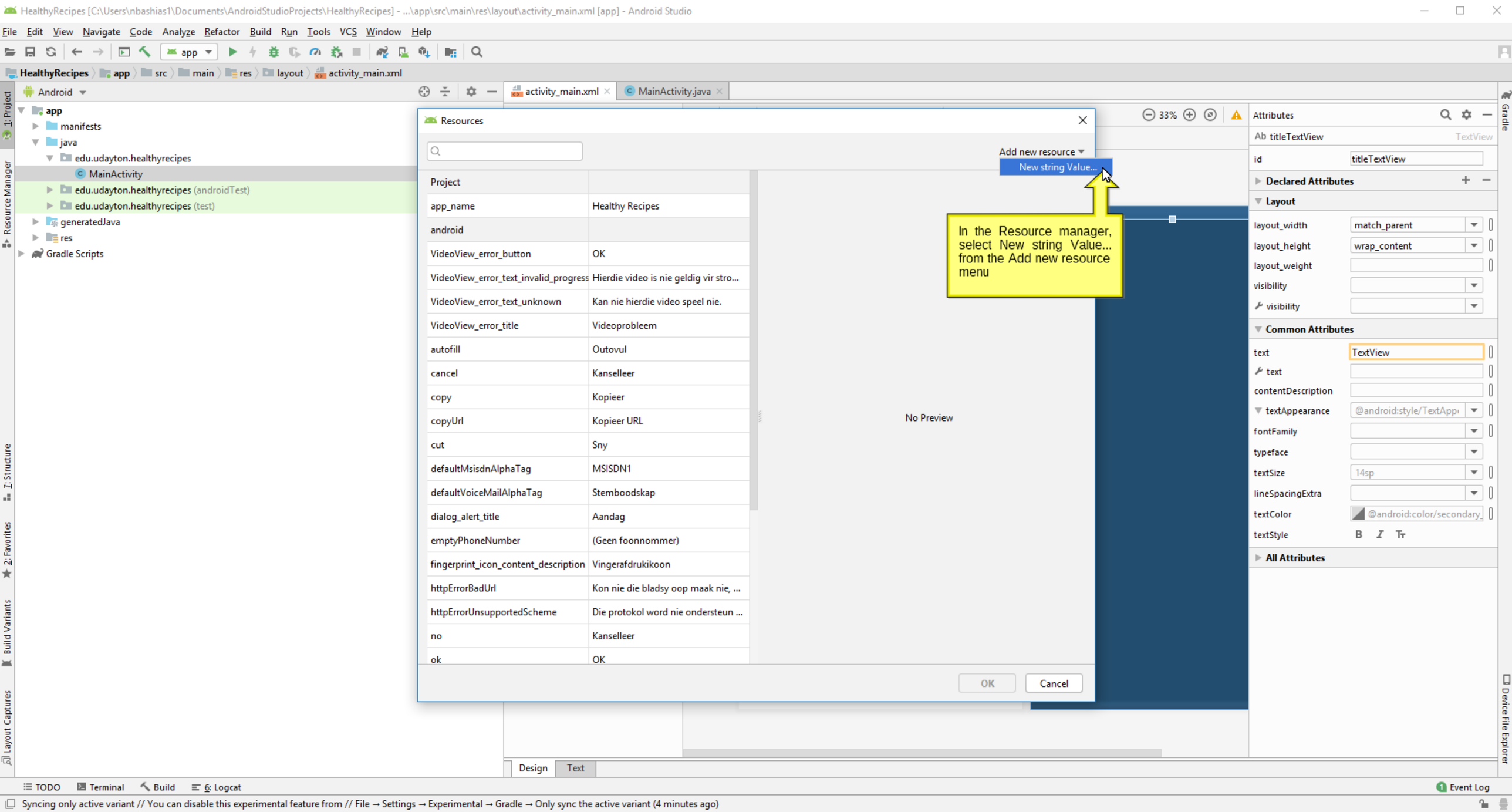
HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio
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HealthyRecipes app src main res layout activity_main.xml
Android
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edu.udayton.healthyrecipes (test)
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res
Gradle Scripts
activity_main.xml
MainActivity.java
Resources
Add new resource
New string Value...
In the Resource manager, select New string Value... from the Add new resource menu
Project
app_name Healthy Recipes
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
defaultVoiceMailAlphaTag Stemboodskap
dialog_alert_title Aandag
emptyPhoneNumber (Geen foonnommer)
fingerprint_icon_content_description Vingerafdrukikoon
httpErrorBadUrl Kon nie die bladsy oop maak nie, ...
httpErrorUnsupportedScheme Die protokol word nie ondersteun ...
no Kanselleer
ok OK
No Preview
OK
Cancel
Attributes
titleTextView TextView
id titleTextView
Declared Attributes
Layout
layout_width match_parent
layout_height wrap_content
layout_weight
visibility
visibility
Common Attributes
text TextView
text
contentDescription
textAppearance @android:style/TextApp
fontFamily
typeface
textSize 14sp
lineSpacingExtra
textColor @android:color/secondary
textStyle
All Attributes
Design Text
TODO Terminal Build 6: Logcat
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app

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

Android

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    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

Project	
app_name	Healthy Recipes
android	
VideoView_error_button	OK
VideoView_error_text_invalid_progress	Hierdie video
VideoView_error_title	Videoproblee
autofill	Outovul
cancel	Kanselleer
copy	Kopieer
copyUrl	Kopieer URL
cut	Sny
defaultMsisdnAlphaTag	MSISDN1
defaultVoiceMailAlphaTag	Stemboodska
dialog_alert_title	Aandag
emptyPhoneNumber	
fingerprint_icon_content_description	Vingerafdrukikoon
httpErrorBadUrl	Kon nie die bladsy oop maak nie, ...
httpErrorUnsupportedScheme	Die protokol word nie ondersteun ...
no	Kanselleer
ok	OK

1. Enter the Resource name

New String Value Resource

Resource name: txtTitle

Resource value: Bruschetta Recipe

2. Enter the Resource value (string)

Source set: main

File name: strings.xml

Create the resource in directories:

values

3. Click OK

OK Cancel

No Preview

OK Cancel

Attributes

Ab titleTextView TextView

id titleTextView

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text TextView

text

contentDescription

textAppearance @android:style/TextApp

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle

All Attributes

Design Text

TODO Terminal Build 6: Logcat

Event Log

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activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Attributes

titleTextView — TextView

id: titleTextView

Declared Attributes

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

text	@string/txtTitle
text	
contentDescription	
textAppearance	@android:style/TextApp
fontFamily	
typeface	

Let's now add a new dimension resource for the title's text size

Click the textSize button to bring up the Resource manager

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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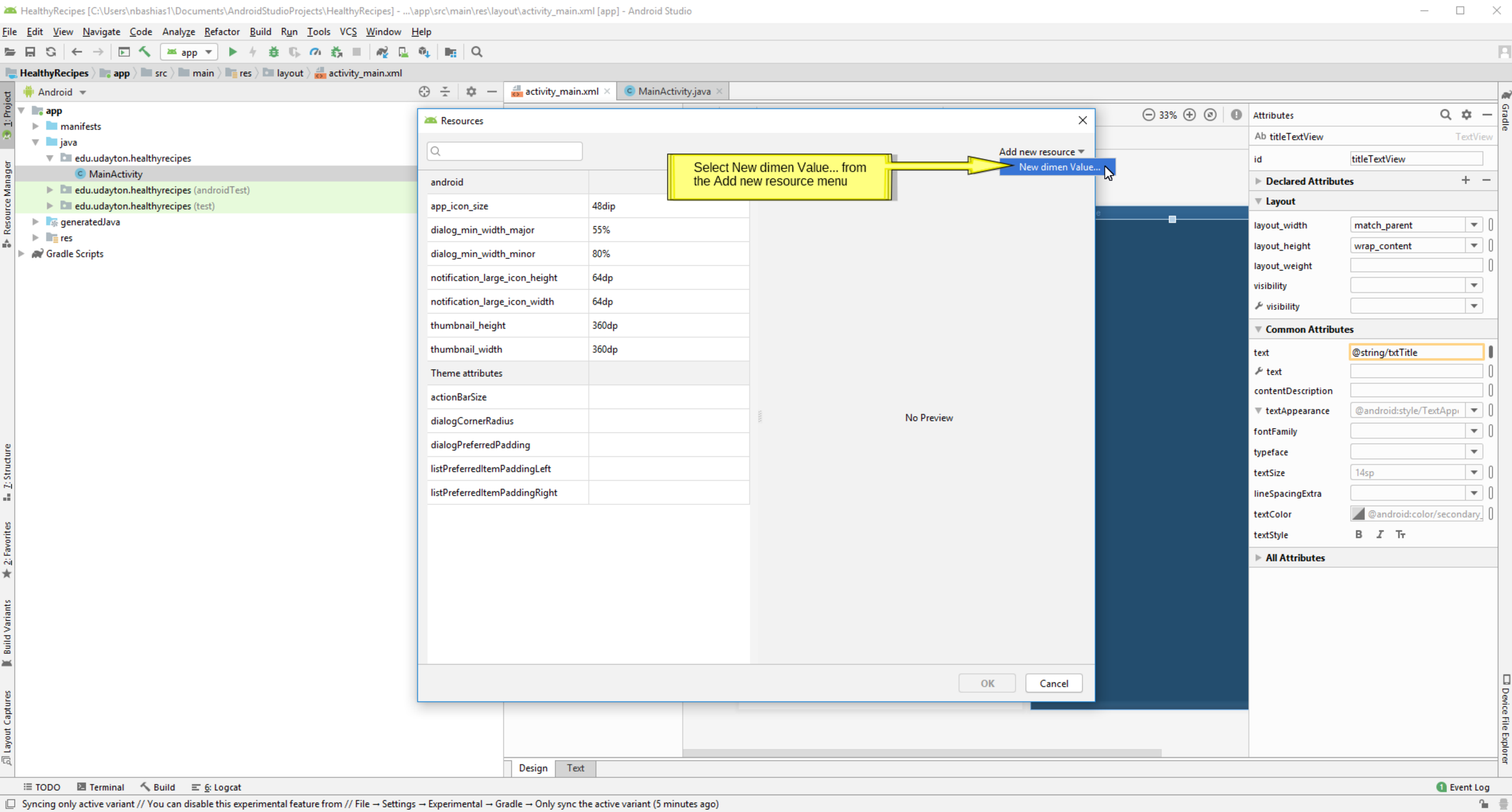
HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio
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edu.udayton.healthyrecipes (test)
generatedJava
res
Gradle Scripts
activity_main.xml
MainActivity.java
Resources
Add new resource
New dimen Value...
Select New dimen Value... from the Add new resource menu
android
app_icon_size 48dip
dialog_min_width_major 55%
dialog_min_width_minor 80%
notification_large_icon_height 64dp
notification_large_icon_width 64dp
thumbnail_height 360dp
thumbnail_width 360dp
Theme attributes
actionBarSize
dialogCornerRadius
dialogPreferredPadding
listPreferredItemPaddingLeft
listPreferredItemPaddingRight
No Preview
OK
Cancel
Attributes
titleTextView TextView
id titleTextView
Declared Attributes
Layout
layout_width match_parent
layout_height wrap_content
layout_weight
visibility
visibility
Common Attributes
text @string/txtTitle
text
contentDescription
textAppearance @android:style/TextApp
fontFamily
typeface
textSize 14sp
lineSpacingExtra
textColor @android:color/secondary
textStyle
All Attributes
Design Text
TODO Terminal Build 6: Logcat
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app

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  - generatedJava
  - res
- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

android	
app_icon_size	48dip
dialog_min_width_major	55%
dialog_min_width_minor	80%
notification_large_icon_height	64dp
thumbnail_height	360dp
thumbnail_width	360dp
Theme attributes	
actionBarSize	
dialogCornerRadius	
dialogPreferredPadding	
listPreferredItemPaddingLeft	
listPreferredItemPaddingRight	

OK Cancel

New Dimension Value Resource

Resource name: titleTextSize

Resource value: 40sp

Source set: main

File name: dimens.xml

Create the resource in directories:

values

OK Cancel

1. Enter the Resource name

2. Enter the Resource value

3. Click OK

OK, so what does "40sp" mean?

As described on page 45 of Android Boot Camp (in the section titled "Android Text Properties"), "sp" stands for "scaled-independent pixels", while "dp" stands for "density-independent pixels".

In general, as we will see in these lessons, sp dimension values are used for text sizes, while dp dimension values are used for other measures (like spacing).

Attributes

Ab titleTextView TextView

id titleTextView

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text @string/txtTitle

Description

Appearance @android:style/TextApp

14sp

textColor @android:color/secondary

textStyle

All Attributes

Design Text

TODO Terminal Build 6: Logcat

Event Log

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activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView - "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Attributes

Ab titleTextView — TextView

id: titleTextView

Declared Attributes

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

text	@string/txtTitle
text	
contentDescription	
textAppearance	@android:style/TextApp
fontFamily	
typeface	
textSize	@dimen/titleTextSize
lineSpacingExtra	

Using the same steps as in Lesson 1, change the text color to a more visible black

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

Project

- colorAccent
- colorPrimary
- colorPrimaryDark

android

Theme attributes

No Preview

OK Cancel

Click this triangle to expand the android system colors

Attributes

Ab titleTextView TextView

id titleTextView

Declared Attributes

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

text	@string/txtTitle
text	
contentDescription	
textAppearance	@android:style/TextApp
fontFamily	
typeface	
textSize	@dimen/titleTextSize
lineSpacingExtra	
textColor	@android:color/secondary
textStyle	B I Tr

All Attributes

Design Text

TODO Terminal Build 6: Logcat Event Log

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activity_main.xml | MainActivity.java

33%

Resources

Add new resource

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 resource

Name: black

Default

@android:color/black

⇒ #ff000000

2. Click OK

OK

Cancel

Attributes

Ab titleTextView TextView

id titleTextView

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

text @string/txtTitle

text

contentDescription

textAppearance @android:style/TextApp

fontFamily

typeface

textSize @dimen/titleTextSize

lineSpacingExtra

textColor @android:color/secondary

textStyle

All Attributes

Design | Text

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Component Tree

- LinearLayout(vertical)
  - titleTextView - "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Click this triangle to expand and view all attributes for this TextView

Attributes

Ab titleTextView — TextView

id: titleTextView

Declared Attributes

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

text	@string/txtTitle
text	
contentDescription	
textAppearance	@android:style/TextApp
fontFamily	
typeface	
textSize	@dimen/titleTextSize
lineSpacingExtra	
textColor	@android:color/black
textStyle	B I Tr

All Attributes

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Then, scroll to and expand the gravity attribute

Attributes

Ab titleTextView TextView

firstBaselineToTopH	
fitsSystemWindows	
focusable	
focusableInTouchMo	
fontFamily	
foreground	
gravity	
hapticFeedbackEnab	
height	
hint	
id	titleTextView
imeActionId	
imeActionLabel	
imeOptions	
includeFontPadding	
inputMethod	
inputType	
isScrollContainer	
keepScreenOn	
lastBaselineToBottor	
layerType	
layout_gravity	
layout_height	wrap_content
layout_margin	[?, ?, ?, ?, ?]
layout_weight	
layout_width	match_parent
lineHeight	
lineSpacingExtra	
lineSpacingMultiplie	
lines	

android:gravity:
Specifies how an object should position its content, on both the X and Y axes, within its own bounds.

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView - "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Attributes

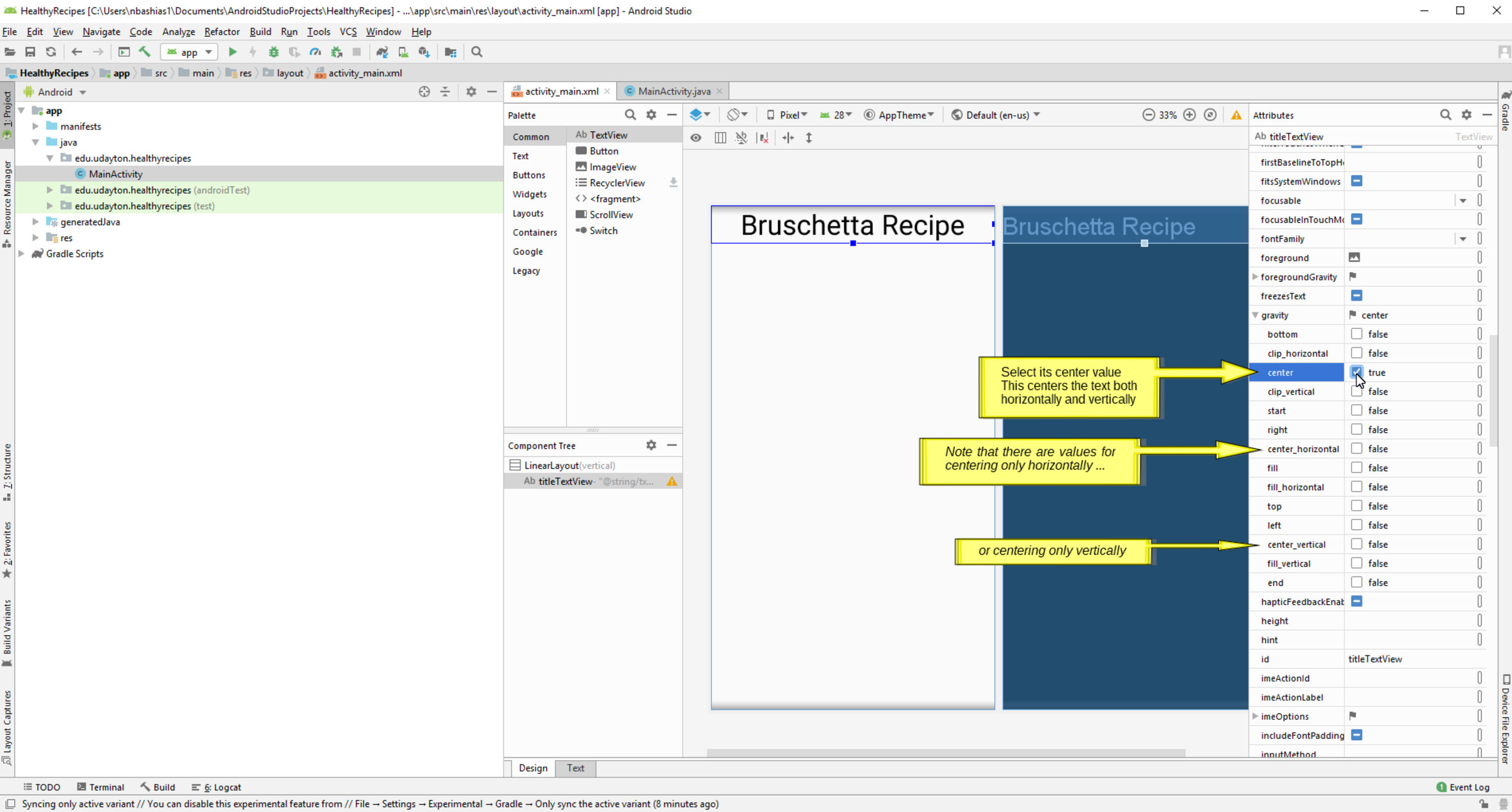
titleTextView — TextView

firstBaselineToTopH	
fitsSystemWindows	
focusable	
focusableInTouchMo	
fontFamily	
foreground	
foregroundGravity	
freezesText	
gravity	
bottom	false
clip_horizontal	false
center	false
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
hapticFeedbackEnab	
height	
hint	
id	titleTextView
imeActionId	
imeActionLabel	
imeOptions	
includeFontPadding	
inputMethod	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (8 minutes ago)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generatedJava
res
Gradle Scripts
activity_main.xml
MainActivity.java
Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy
TextView
Button
ImageView
RecyclerView
<fragment>
ScrollView
Switch
Component Tree
LinearLayout(vertical)
titleTextView- "@string/tx...
Pixel
28
AppTheme
Default (en-us)
33%
Bruschetta Recipe
Bruschetta Recipe
Select its center value
This centers the text both
horizontally and vertically
Note that there are values for
centering only horizontally ...
or centering only vertically
Attributes
titleTextView
TextView
firstBaselineToTopH
fitsSystemWindows
focusable
focusableInTouchMo
fontFamily
foreground
foregroundGravity
freezesText
gravity
center
bottom
clip_horizontal
center
clip_vertical
start
right
center_horizontal
fill
fill_horizontal
top
left
center_vertical
fill_vertical
end
hapticFeedbackEnab
height
hint
id
imeActionId
imeActionLabel
imeOptions
includeFontPadding
inputMethod
Design
Text
TODO
Terminal
Build
6: Logcat
Event Log
Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (8 minutes ago)

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Scroll down to and click to expand the Padding attribute

Our title looks OK.
However, it does look a bit cramped on the top and bottom.
We can correct this by adding spacing (called "padding") to the top and bottom of this control.

In fact, we'll again add this spacing as a dimension resource, and then re-use it to pad all of the controls on this layout.

Attributes

Ab titleTextView — TextView

nextFocusUp	
numeric	
onClick	
overScrollMode	
padding	[?, ?, ?, ?, ?]
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
selectAllOnFocus	
shadowColor	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (8 minutes ago)

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

Palette

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

TextView
Button
ImageView
RecyclerView
<fragment>
ScrollView
Switch

Component Tree

LinearLayout(vertical)
titleTextView- "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

As with the title TextView's text size, click this button to set the "paddingBottom" attribute using the Resource manager

Attributes

titleTextView — TextView

nextFocusUp
numeric
onClick
overScrollMode
padding [?, ?, ?, ?, ?]
padding
paddingLeft
paddingTop
requiresFadingEdge
rotation
rotationX
rotationY
saveEnabled
scaleX
scaleY
scrollHorizontally
scrollX
scrollY
scrollbarAlwaysDraw
scrollbarAlwaysDraw
scrollbarDefaultDela 400
scrollbarFadeDuratic 250
scrollbarSize 4dp
scrollbarStyle
scrollbarThumbHoriz @android:drawable/scroll
scrollbarThumbVerti @android:drawable/scroll

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (8 minutes ago)

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

33%

Resources

Select "New dimen Value..." from the "Add new resource" pull-down menu

Add new resource

New dimen Value...

Project	
titleTextSize	40sp
android	
app_icon_size	48dip
dialog_min_width_major	55%
dialog_min_width_minor	80%
notification_large_icon_height	64dp
notification_large_icon_width	64dp
thumbnail_height	360dp
thumbnail_width	360dp
Theme attributes	
actionBarSize	
dialogCornerRadius	
dialogPreferredPadding	
listPreferredItemPaddingLeft	
listPreferredItemPaddingRight	

No Preview

OK Cancel

ta Recipe

Attributes

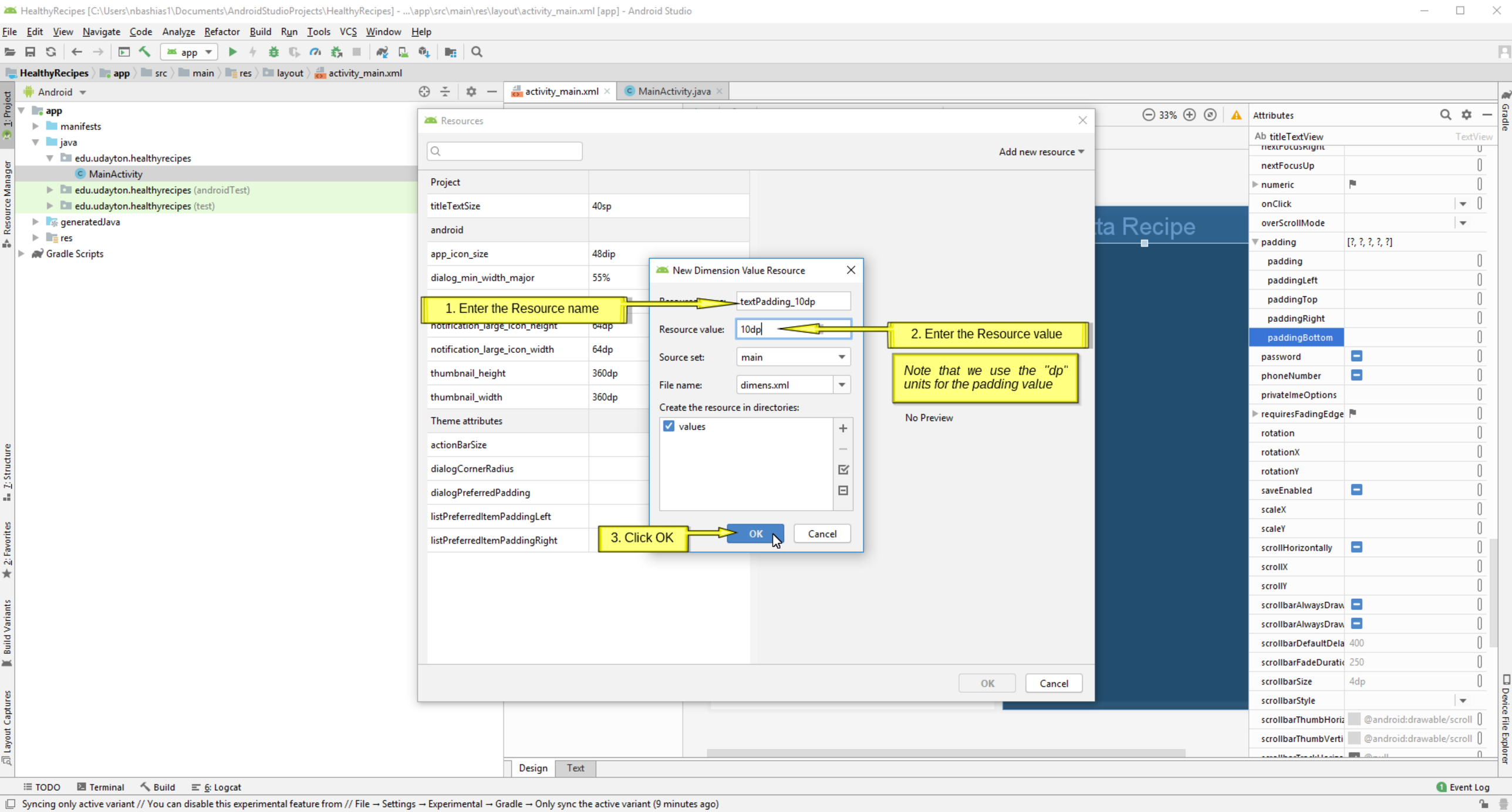
Ab titleTextView TextView

nextFocusUp	
numeric	
onClick	
overScrollMode	
padding	[?, ?, ?, ?, ?]
padding	
paddingLeft	
paddingTop	
paddingRight	
paddingBottom	
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll

Design Text

TODO Terminal Build 6: Logcat Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (8 minutes ago)


HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
HealthyRecipes app src main res layout activity_main.xml
activity_main.xml
MainActivity.java
Resources
Add new resource
Project
titleTextSize 40sp
android
app_icon_size 48dip
dialog_min_width_major 55%
notification_large_icon_height 64dp
notification_large_icon_width 64dp
thumbnail_height 360dp
thumbnail_width 360dp
Theme attributes
actionBarSize
dialogCornerRadius
dialogPreferredPadding
listPreferredItemPaddingLeft
listPreferredItemPaddingRight
1. Enter the Resource name
New Dimension Value Resource
textPadding_10dp
Resource value: 10dp
2. Enter the Resource value
Source set: main
File name: dimens.xml
Create the resource in directories:
values
3. Click OK
OK
Cancel
Note that we use the "dp" units for the padding value
No Preview
Attributes
Ab titleTextView TextView
nextFocusUp
numeric
onClick
overScrollMode
padding [?, ?, ?, ?, ?]
paddingLeft
paddingTop
paddingRight
paddingBottom
password
phoneNumber
privateImeOptions
requiresFadingEdge
rotation
rotationX
rotationY
saveEnabled
scaleX
scaleY
scrollHorizontally
scrollX
scrollY
scrollbarSize 4dp
scrollbarStyle
Design
Text
TODO
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6: Logcat
Event Log
Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (9 minutes ago)

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

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

app

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

Android

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  - java
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      - MainActivity
    - edu.udayton.healthyrecipes (androidTest)
    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Click this button to set the "paddingTop" attribute using the Resource manager

Attributes

Ab titleTextView | TextView

nextFocusUp
numeric
onClick
overScrollMode
padding [?, ?, ?, ?, @dimen/textPadding_10
padding
paddingLeft
dimen/textPadding_10dp
password
phoneNumber
privateImeOptions
requiresFadingEdge
rotation
rotationX
rotationY
saveEnabled
scaleX
scaleY
scrollHorizontally
scrollX
scrollY
scrollbarAlwaysDraw
scrollbarAlwaysDraw
scrollbarDefaultDela 400
scrollbarFadeDuratic 250
scrollbarSize 4dp
scrollbarStyle
scrollbarThumbHoriz @android:drawable/scroll
scrollbarThumbVerti @android:drawable/scroll

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (9 minutes ago)

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

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

app

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

Android

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

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

Project	
textPadding_10dp	10dp
titleTextSize	40sp
android	
app_icon_size	48dip
dialog_min_width_major	55%
dialog_min_width_minor	80%
notification_large_icon_height	64dp
notification_large_icon_width	64dp
thumbnail_height	360dp
thumbnail_width	360dp
Theme attributes	
actionBarSize	
dialogCornerRadius	
dialogPreferredPadding	
listPreferredItemPaddingLeft	
listPreferredItemPaddingRight	

Click to select the same padding dimension resource we used for the top padding.

Here is why we create and use named resources instead of hard-coded values!

Then click OK

OK Cancel

Attributes

Ab titleTextView TextView

nextFocusUp	
numeric	
onClick	
overScrollMode	
padding	[?, ?, ?, ?, @dimen/textPadding_1(
padding	
paddingLeft	
paddingTop	
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll

Design Text

TODO Terminal Build 6: Logcat Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (9 minutes ago)

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

At this point, switch to your desktop (i.e., minimize Android Studio)

Minimize

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

app

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

Android

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

activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

See Android Boot Camp: Adding a File to the Resources folder (pages 49-52)

We need to add a picture (PNG image) file to our project's resources

The next steps assume that you have downloaded the image file "bruschetta.png" from the course Isidore site:
Downloads > Android Boot Camp Data Files > Chapter 2 Data Files

Component Tree

- LinearLayout(vertical)
  - titleTextView - "@stri

Attributes

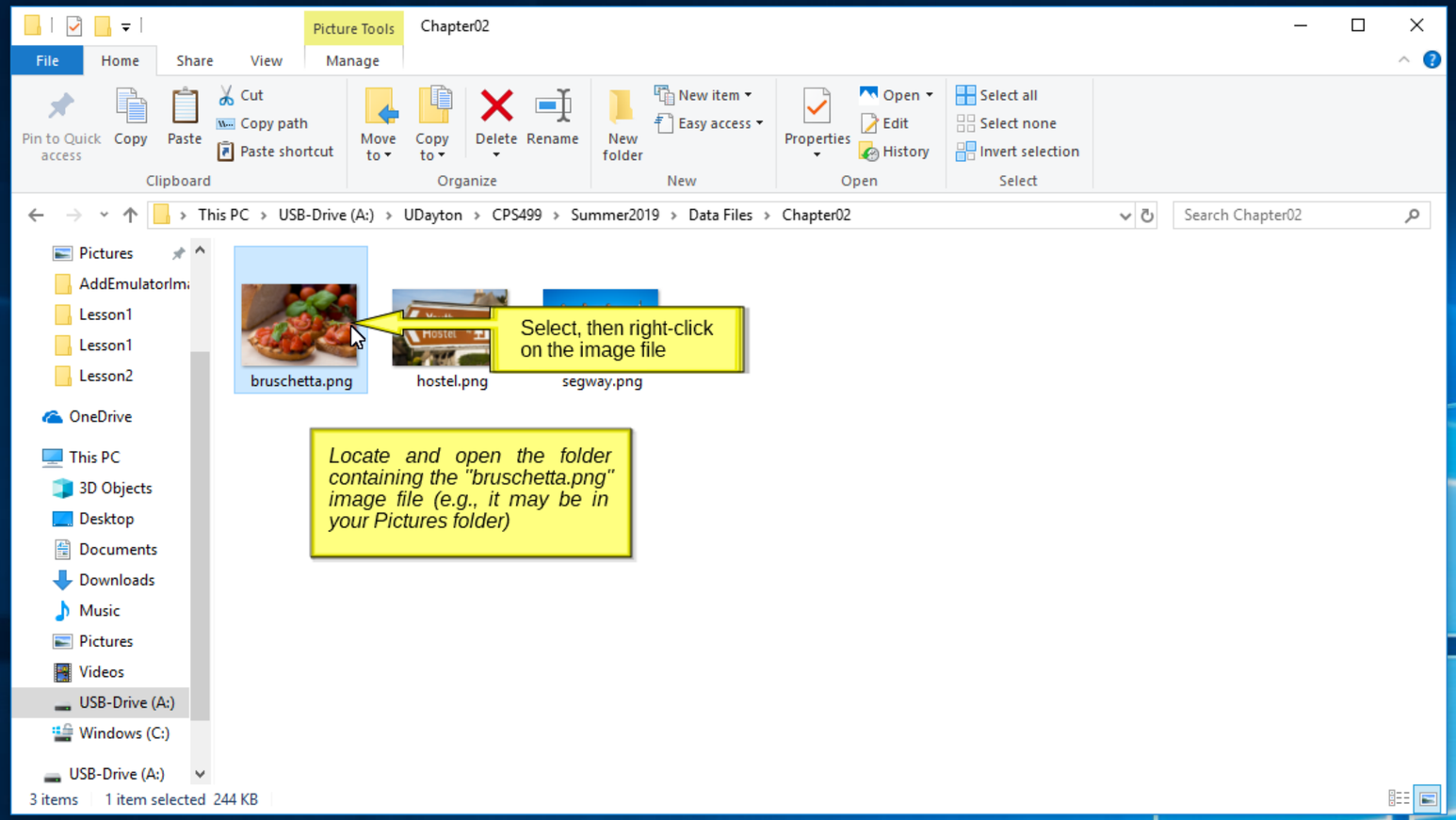
titleTextView — TextView

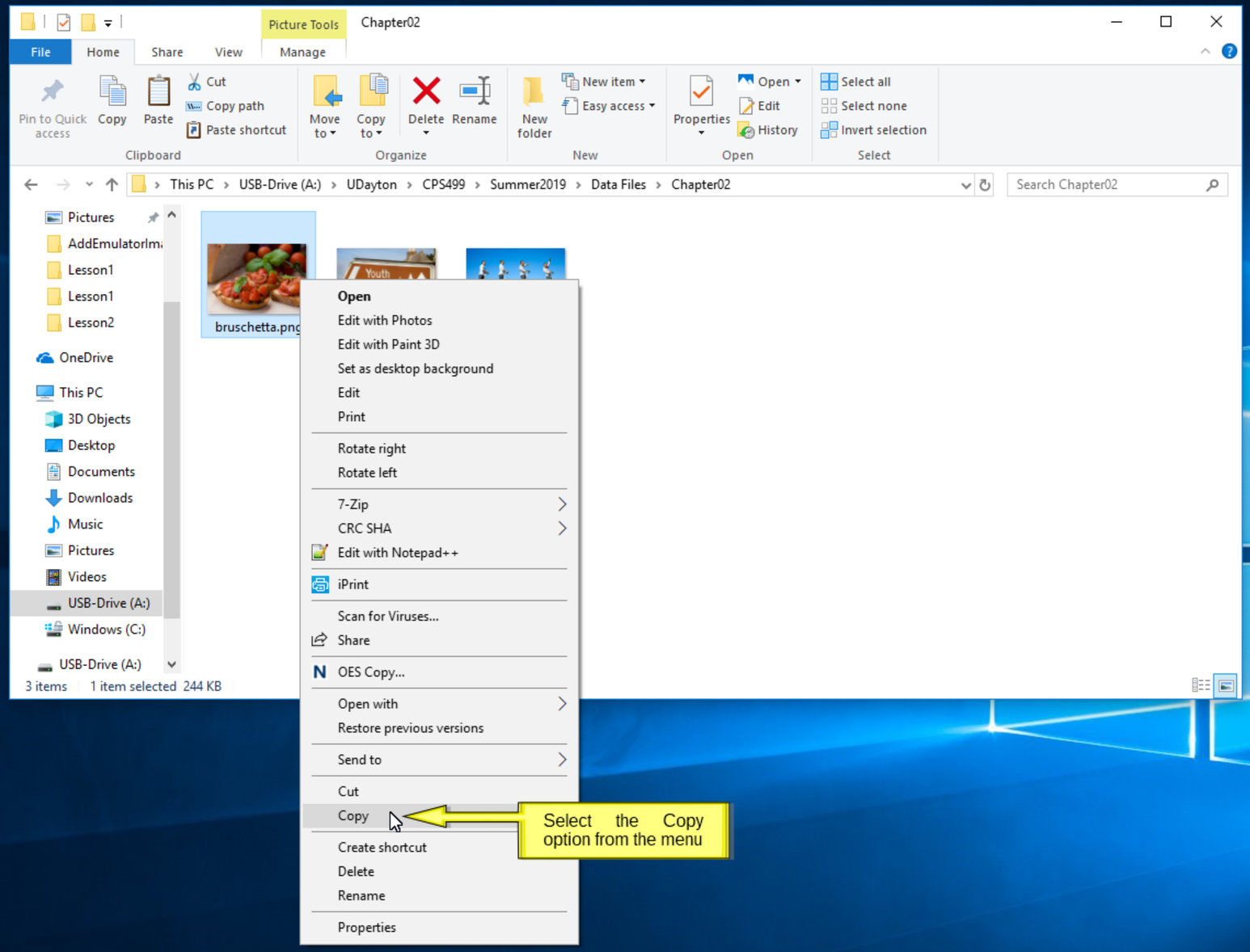
numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (10 minutes ago)


Picture Tools
Chapter02
File
Home
Share
View
Manage
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
This PC › USB-Drive (A:) › UDayton › CPS499 › Summer2019 › Data Files › Chapter02
Search Chapter02
Pictures
AddEmulatorIm
Lesson1
Lesson1
Lesson2
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
USB-Drive (A:)
Windows (C:)
USB-Drive (A:)
bruschetta.png
hostel.png
segway.png
Select, then right-click on the image file
Locate and open the folder containing the "bruschetta.png" image file (e.g., it may be in your Pictures folder)
3 items
1 item selected 244 KB


Picture Tools
Chapter02
File
Home
Share
View
Manage
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
This PC › USB-Drive (A:) › UDayton › CPS499 › Summer2019 › Data Files › Chapter02
Search Chapter02
Pictures
AddEmulatorIm
Lesson1
Lesson1
Lesson2
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
USB-Drive (A:)
Windows (C:)
USB-Drive (A:)
bruschetta.png
3 items
1 item selected 244 KB
Open
Edit with Photos
Edit with Paint 3D
Set as desktop background
Edit
Print
Rotate right
Rotate left
7-Zip
CRC SHA
Edit with Notepad++
iPrint
Scan for Viruses...
Share
OES Copy...
Open with
Restore previous versions
Send to
Cut
Copy
Create shortcut
Delete
Rename
Properties
Select the Copy option from the menu

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

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

app

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

Android

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

Click this triangle to expand the 'res' folder in the Project Explorer

In any Android Studio project, "res" is the resources folder.

It is described in detail on pages 49 - 50 of Android Boot Camp, in the section titled "Adding a File to the Resources Folder".

In particular, pay attention to the Critical Thinking notice at the bottom of page 49, in that all images used in Android apps should be in PNG format.

activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView - "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Attributes

titleTextView — TextView

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (12 minutes ago)

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

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

app

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

Android

- app
  - manifests
  - java
    - edu.udayton.healthyrecipes
      - MainActivity
    - edu.udayton.healthyrecipes (androidTest)
    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
    - drawable
    - layout
    - mipmap
    - values
- Gradle Scripts

Select, then right-click on the res/drawable folder ...

As described in Table 2-3 on page 50 of Android Boot Camp, the "drawable" folder is for images ("drawables" in Android terminology).

activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Attributes

Ab titleTextView — TextView

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (12 minutes ago)

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

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

app

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

Android

app
- manifests
- java
  - edu.udayton.healthyrecipes
    - MainActivity
  - edu.udayton.healthyrecipes (androidTest)
  - edu.udayton.healthyrecipes (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 Alt+F7
Analyze
Refactor
Add to Favorites
Show Image Thumbnails Ctrl+Shift+T
Reformat Code Ctrl+Alt+L
Optimize Imports Ctrl+Alt+O
Delete... 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...

... and select the Paste option from the menu that appears

activity_main.xml | MainActivity.java

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

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

Component Tree
- LinearLayout(vertical)
  - titleTextView - "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

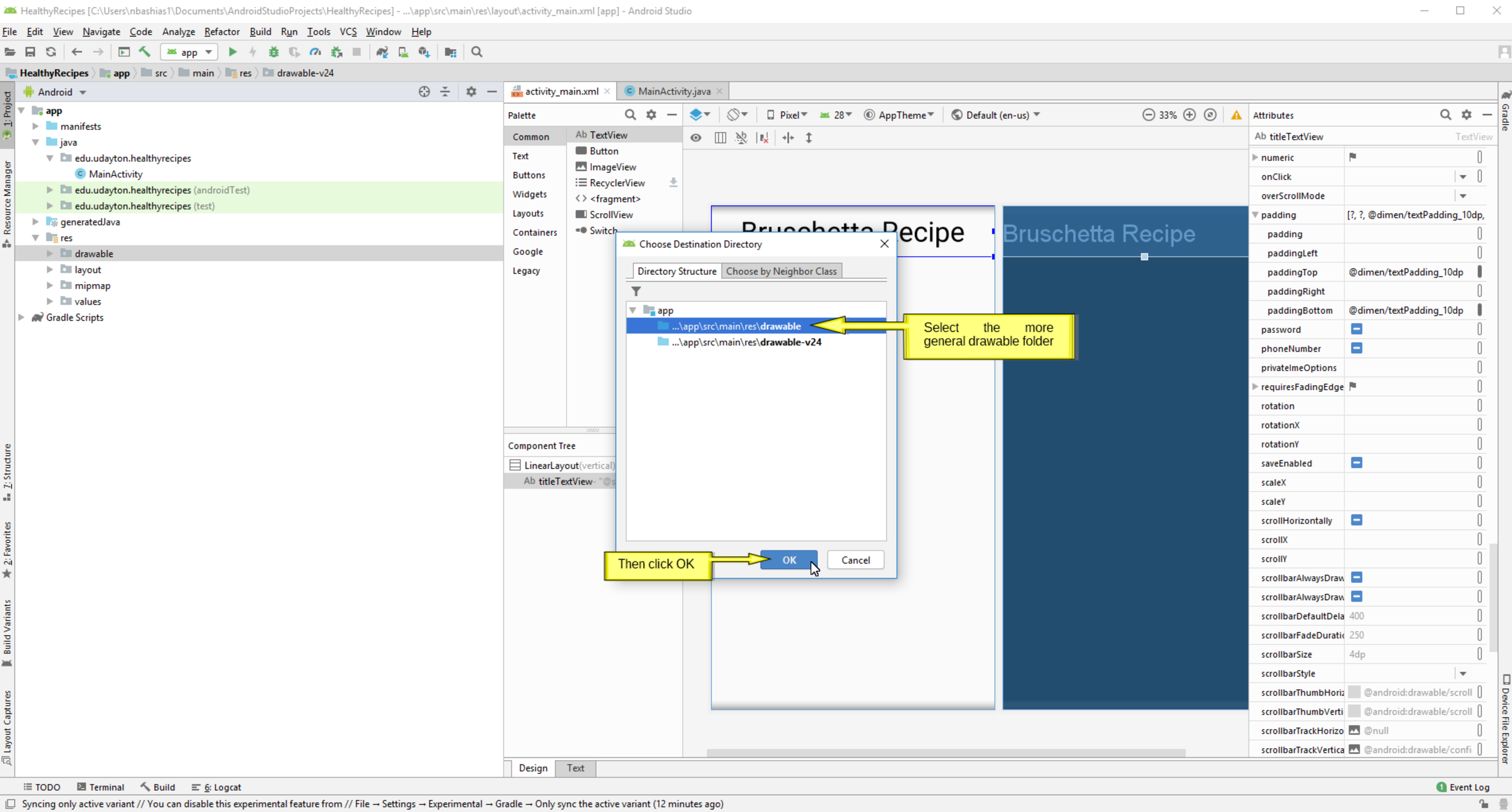
Design | Text

Attributes — titleTextView (TextView)

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratio	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

TODO | Terminal | Event Log

Paste from clipboard


HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
app
HealthyRecipes app src main res drawable-v24
Android
app
manifests
java
edu.udayton.healthyrecipes
MainActivity
edu.udayton.healthyrecipes (androidTest)
edu.udayton.healthyrecipes (test)
generatedJava
res
drawable
layout
mipmap
values
Gradle Scripts
activity_main.xml
MainActivity.java
Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy
TextView
Button
ImageView
RecyclerView
<fragment>
ScrollView
Switch
Component Tree
LinearLayout(vertical)
titleTextView
Pixel
28
AppTheme
Default (en-us)
33%
Bruschetta Recipe
Choose Destination Directory
Directory Structure
Choose by Neighbor Class
app
...\app\src\main\res\drawable
...\app\src\main\res\drawable-v24
Select the more general drawable folder
Then click OK
OK
Cancel
Attributes
titleTextView
TextView
numeric
onClick
overScrollMode
padding
[?, ?, @dimen/textPadding_10dp,
padding
paddingLeft
paddingTop
@dimen/textPadding_10dp
paddingRight
paddingBottom
@dimen/textPadding_10dp
password
phoneNumber
privateImeOptions
requiresFadingEdge
rotation
rotationX
rotationY
saveEnabled
scaleX
scaleY
scrollHorizontally
scrollX
scrollY
scrollbarAlwaysDraw
scrollbarAlwaysDraw
scrollbarDefaultDela
400
scrollbarFadeDuratic
250
scrollbarSize
4dp
scrollbarStyle
scrollbarThumbHoriz
@android:drawable/scroll
scrollbarThumbVerti
@android:drawable/scroll
scrollbarTrackHorizo
@null
scrollbarTrackVertica
@android:drawable/confi
Design
Text
TODO
Terminal
Build
6: Logcat
Event Log
Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (12 minutes ago)

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

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

app

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

Android

- app
  - manifests
  - java
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      - MainActivity
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    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
    - drawable
    - layout
    - mipmap
    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

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

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Copy

Copy file A:\UDayton\CPS499\Summer2019\Data Files\Chapter02\bruschetta.png

New name: bruschetta.png

To directory: :nts\AndroidStudioProjects\Hea

Use Ctrl+Space for path comple

Make sure that the file name conforms to the Android resource naming rules:

1. name contains only lower-case letters

2. name must start with a letter

3. name has no spaces

4. parts of a name are underscore (_) separated

This is important!!!
If any drawable name does not conform to the Android resource naming rules, your app will not work!!!

Attributes

Ab titleTextView TextView

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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1:15

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

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

app

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

Android

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    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

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

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Copy

Copy file A:\UDayton\CPS499\Summer2019\Data Files\Chapter02\bruschetta.png

New name: bruschetta.png

To directory: :nts\AndroidStudioProjects\HealthyRecipes\app\src\main\res\drawable

Use Ctrl+Space for path completion

Click OK

OK | Cancel | Help

Attributes

titleTextView — TextView

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
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scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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

app

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

activity_main.xml | MainActivity.java

Android

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    - values
- Gradle Scripts

Palette

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

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

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Using the same steps for adding a TextView, add an ImageView to the layout, keeping in mind that the LinearLayout will automatically place it below the titleTextView

We need to add an ImageView component, in order to display our drawable

Bruschetta Recipe

Attributes

titleTextView — TextView

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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

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

app

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

Android

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activity_main.xml | MainActivity.java

Palette

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

TextView
Button
ImageView
RecyclerView
<fragment>
ScrollView
Switch

Add to Design
Favorite
Android Documentation Shift+F1
Material Guidelines

Component Tree

LinearLayout(vertical)
titleTextView- "@string/tx...

Pixel | 28 | AppTheme | Default (en-us) | 33%

The new ImageView will appear directly below the title TextView

Bruschetta Recipe

Attributes

titleTextView TextView

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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    - layout
    - mipmap
    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

Drawable

Color

Sample data

avatars

backgrounds/scenic

android

Theme attributes

Click its triangle to expand the Project drawable resource collection

The Resource manager automatically appears after the ImageView is added, so that its src attribute can be set to the drawable to be displayed.

No Preview

OK | Cancel

Recipe

Attributes

Ab titleTextView — TextView

numeric	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
password	
phoneNumber	
privateImeOptions	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleX	
scaleY	
scrollHorizontally	
scrollX	
scrollY	
scrollbarAlwaysDraw	
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scrollbarFadeDuratic	250
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scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
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Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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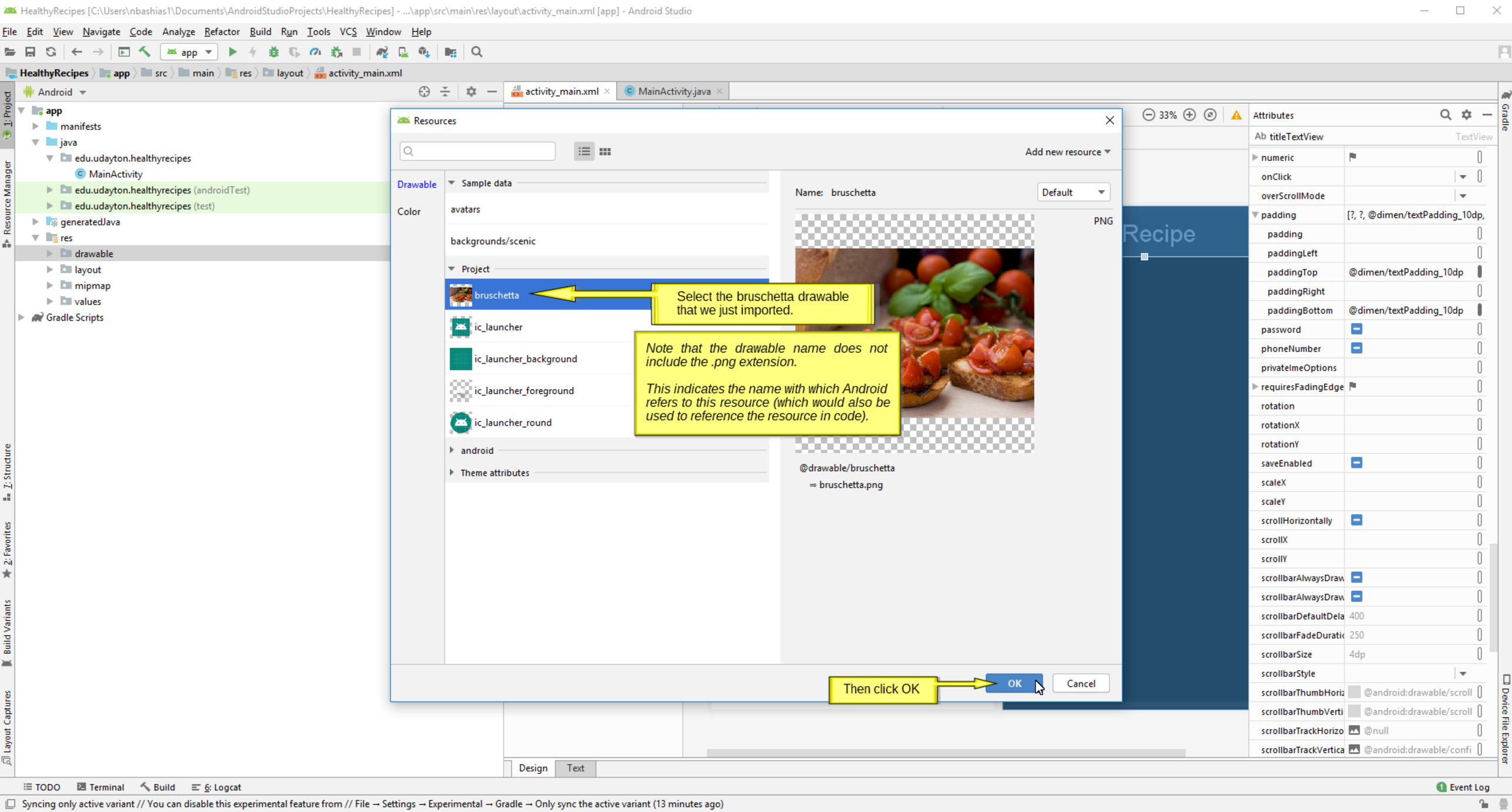
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activity_main.xml
MainActivity.java
Resources
Add new resource
Drawable
Color
Sample data
avatars
backgrounds/scenic
Project
bruschetta
ic_launcher
ic_launcher_background
ic_launcher_foreground
ic_launcher_round
android
Theme attributes
Name: bruschetta
Default
PNG
@drawable/bruschetta
= bruschetta.png
Select the bruschetta drawable that we just imported.
Note that the drawable name does not include the .png extension.
This indicates the name with which Android refers to this resource (which would also be used to reference the resource in code).
Then click OK
OK
Cancel
Attributes
titleTextView
TextView
numeric
onClick
overScrollMode
padding
[?, ?, @dimen/textPadding_10dp,
padding
paddingLeft
paddingTop
@dimen/textPadding_10dp
paddingRight
paddingBottom
@dimen/textPadding_10dp
password
phoneNumber
privateImeOptions
requiresFadingEdge
rotation
rotationX
rotationY
saveEnabled
scaleX
scaleY
scrollHorizontally
scrollX
scrollY
scrollbarAlwaysDraw
scrollbarAlwaysDraw
scrollbarDefaultDela
400
scrollbarFadeDuratic
250
scrollbarSize
4dp
scrollbarStyle
scrollbarThumbHoriz
@android:drawable/scroll
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@null
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TODO
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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

app

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

Android

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  - generatedJava
  - res
    - drawable
    - layout
    - mipmap
    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

- LinearLayout(vertical)
- titleTextView- "@string/tx...
- imageView

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

Ima

Click to create a string resource for the contentDescription attribute

Note that Android considers this to be critical, so that the image can be described by the Android device to visually-impaired users.

Attributes

imageView — ImageView

id: imageView

Declared Attributes

Layout

layout_width: match_parent
layout_height: wrap_content
layout_weight
visibility
visibility

Common Attributes

srcCompat: @drawable/bruschetta
srcCompat
scaleType
background
baseline
baselineAlignBotton
clickable
contentDescription
cropToPadding
drawingCacheQualit
duplicateParentState
fadeScrollbars
fadingEdge
fadingEdgeLength

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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- Gradle Scripts

activity_main.xml | MainActivity.java

Resources

As with the title's TextView, select New string Value... from the Add resource menu

Add new resource

New string Value...

Project	
app_name	Healthy Recipes
txtTitle	Bruschetta Recipe
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
defaultVoiceMailAlphaTag	Stemboodskap
dialog_alert_title	Aandag
emptyPhoneNumber	(Geen foonnommer)
fingerprint_icon_content_description	Vingerafdrukikoon
httpErrorBadUrl	Kon nie die bladsy oop maak nie, ...
httpErrorUnsupportedScheme	Die protokol word nie ondersteun ...
no	Kanselleer

No Preview

OK Cancel

33%

ta Recipe

ageView

Attributes

imageView ImageView

id imageView

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

srcCompat @drawable/bruschetta

srcCompat

contentDescription

background

scaleType

adjustViewBounds

cropToPadding

All Attributes

adjustViewBounds

alpha

background

baseline

baselineAlignBotton

clickable

contentDescription

cropToPadding

drawingCacheQualit

duplicateParentState

fadeScrollbars

fadingEdge

fadingEdgeLength

Design Text

TODO Terminal Build 6: Logcat Event Log

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- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

Project	
app_name	Healthy Recipes
txtTitle	Bruschetta Recipe
android	
VideoView_error_button	OK
VideoView_error_text_unknown	Kan nie hierdi
VideoView_error_title	Videoproblee
autofill	Outovul
cancel	Kanselleer
copy	Kopieer
copyUrl	Kopieer URL
cut	Sny
defaultMsisdnAlphaTag	MSISDN1
defaultVoiceMailAlphaTag	Stemboodska
dialog_alert_title	Aa
emptyPhoneNumber	(Geen foonnommer)
fingerprint_icon_content_description	Vingerafdrukikoon
httpErrorBadUrl	Kon nie die bladsy oop maak nie, ...
httpErrorUnsupportedScheme	Die protokol word nie ondersteun ...
no	Kanselleer

1. Enter the Resource name

New String Value Resource

Resource name: txtBruschettaImage

Resource value: Bruschetta Picture

2. Enter the Resource value (string)

Source set: main

File name: strings.xml

Create the resource in directories:

values

3. Click OK

OK Cancel

No Preview

OK Cancel

ta Recipe

ageView

Attributes

imageView ImageView

id imageView

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

srcCompat @drawable/bruschetta

srcCompat

contentDescription

background

scaleType

adjustViewBounds

cropToPadding

All Attributes

adjustViewBounds

alpha

background

baseline

baselineAlignBotton

clickable

contentDescription

cropToPadding

drawingCacheQualit

duplicateParentState

fadeScrollbars

fadingEdge

fadingEdgeLength

Design Text

TODO Terminal Build 6: Logcat Event Log

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Component Tree

- LinearLayout(vertical)
  - titleTextView - "@string/tx...
  - imageView

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

ImageView

Let's add some space (padding) above and below the bruschetta image.

Scroll down to and expand the padding attribute group

Attributes

imageView — ImageView

nextFocusRight	
nextFocusUp	
onClick	
overScrollMode	
padding	[?, ?, ?, ?, ?]
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleType	
scaleX	
scaleY	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratio	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
soundEffectsEnable	
srcCompat	@drawable/bruschetta
style	
tag	
targetApi	
theme	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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- LinearLayout(vertical)
  - titleTextView - "@string/tx...
  - imageView

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

ImageView

Click the button next to the paddingTop attribute

Attributes

imageView — ImageView

nextFocusRight	
nextFocusUp	
onClick	
overScrollMode	
padding	[?, ?, ?, ?, ?]
padding	
paddingLeft	
paddingBottom	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleType	
scaleX	
scaleY	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
soundEffectsEnable	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (15 minutes ago)

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

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

app

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

Android

- app
  - manifests
  - java
    - edu.udayton.healthyrecipes
      - MainActivity
    - edu.udayton.healthyrecipes (androidTest)
    - edu.udayton.healthyrecipes (test)
  - generatedJava
  - res
    - drawable
    - layout
    - mipmap
    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

Project	
textPadding_10dp	10dp
titleTextSize	40sp
android	
app_icon_size	48dip
dialog_min_width_major	55%
dialog_min_width_minor	80%
notification_large_icon_height	64dp
notification_large_icon_width	64dp
thumbnail_height	360dp
thumbnail_width	360dp
Theme attributes	
actionBarSize	
dialogCornerRadius	
dialogPreferredPadding	
listPreferredItemPaddingLeft	
listPreferredItemPaddingRight	

Name: textPadding_10dp

Again, select the textPadding_10dp dimension resource we previously created

Then click OK

OK Cancel

ta Recipe

ageView

Attributes

imageView ImageView

nextFocusRight	
nextFocusUp	
onClick	
overScrollMode	
padding	[?, ?, ?, ?, ?]
padding	
paddingLeft	
paddingTop	
paddingRight	
paddingBottom	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleType	
scaleX	
scaleY	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
soundEffectsEnable	

Design Text

TODO Terminal Build 6: Logcat Event Log

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

app

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

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  - generatedJava
  - res
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    - layout
    - mipmap
    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Text, Buttons, Widgets, Layouts, Containers, Google, Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/tx...
  - imageView

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

Bruschetta Recipe

ImageView

In the same way, use the Resource manager to set the paddingBottom attribute

Attributes

imageView — ImageView

nextFocusRight	
nextFocusUp	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
rotationX	
rotationY	
saveEnabled	
scaleType	
scaleX	
scaleY	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
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scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
soundEffectsEnable	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

Project	
textPadding_10dp	10dp
titleTextSize	40sp
android	
app_icon_size	48dip
dialog_min_width_major	55%
dialog_min_width_minor	80%
notification_large_icon_height	64dp
notification_large_icon_width	64dp
thumbnail_height	360dp
thumbnail_width	360dp
Theme attributes	
actionBarSize	
dialogCornerRadius	
dialogPreferredPadding	
listPreferredItemPaddingLeft	
listPreferredItemPaddingRight	

Name: textPadding_10dp

Again, select the textPadding_10dp dimension resource we previously created

Then click OK

OK Cancel

ta Recipe

ageView

Attributes

imageView ImageView

nextFocusRight	
nextFocusUp	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleType	
scaleX	
scaleY	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
soundEffectsEnable	

Design Text

TODO Terminal Build 6: Logcat Event Log

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

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

app

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    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Ab TextView
Button
ImageView
RecyclerView
<fragment>
ScrollView
Switch

Component Tree

LinearLayout(vertical)
Ab titleTextView- "@string/tx...
imageView

Pixel | 28 | AppTheme | Default (en-us) | 33%

Using the same steps for adding a TextView, add a Button to the layout, keeping in mind that the LinearLayout will automatically place it below the ImageView

We need to add a push button, which we will program in Java, so that the user can view the Bruschetta recipe as a second screen.

Recipe

Bruschetta Recipe

ImageView

Attributes

imageView — ImageView

nextFocusRight	
nextFocusUp	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleType	
scaleX	
scaleY	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
soundEffectsEnable	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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

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  - layout
  - mipmap
  - values
- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

Ab TextView
Button
ImageVi
Recycle
<fragm
ScrollVie
Switch

Add to Design
Favorite
Android Documentation Shift+F1
Material Guidelines

Component Tree
- LinearLayout(vertical)
- titleTextView - "@string/tx...
- imageView

Pixel | 28 | AppTheme | Default (en-us) | 33%

The new Button will appear directly below the bruschetta ImageView

Bruschetta Recipe

Bruschetta Recipe

ImageView

Design | Text

Attributes

imageView — ImageView

nextFocusRight	
nextFocusUp	
onClick	
overScrollMode	
padding	[?, ?, @dimen/textPadding_10dp,
padding	
paddingLeft	
paddingTop	@dimen/textPadding_10dp
paddingRight	
paddingBottom	@dimen/textPadding_10dp
requiresFadingEdge	
rotation	
rotationX	
rotationY	
saveEnabled	
scaleType	
scaleX	
scaleY	
scrollX	
scrollY	
scrollbarAlwaysDraw	
scrollbarAlwaysDraw	
scrollbarDefaultDela	400
scrollbarFadeDuratic	250
scrollbarSize	4dp
scrollbarStyle	
scrollbarThumbHoriz	@android:drawable/scroll
scrollbarThumbVerti	@android:drawable/scroll
scrollbarTrackHorizo	@null
scrollbarTrackVertica	@android:drawable/confi
scrollbars	
soundEffectsEnable	

TODO | Terminal | Build | 6: Logcat | Event Log

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- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

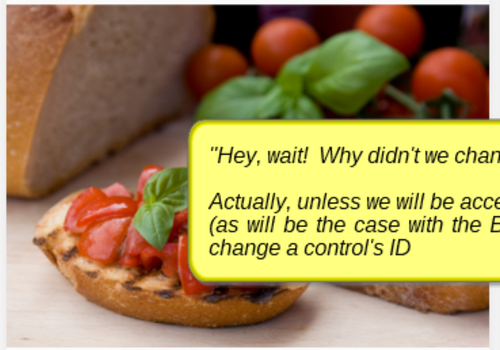
TextView
Button
ImageView
RecyclerView
<fragment>
ScrollView
Switch

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/tx...
  - imageView
  - btnRecipe- "Button"

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe



BUTTON

Bruschetta Recipe

View

BUTTON

"Hey, wait! Why didn't we change the imageView's ID?"

Actually, unless we will be accessing the control in code (as will be the case with the Button), we do not have to change a control's ID

Change the Button's ID

Attributes

btnRecipe — Button

Declared Attributes

btnRecipe

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

style	@android:style/Widget
onClick	
background	@android:drawable/btn_c
text	Button
text	
contentDescription	
textAppearance	@android:style/TextAp
typeface	
textSize	14sp
lineSpacingExtra	
textColor	@android:color/text_colo
textStyle	B I Tr

All Attributes

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

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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

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

app

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

Android

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- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

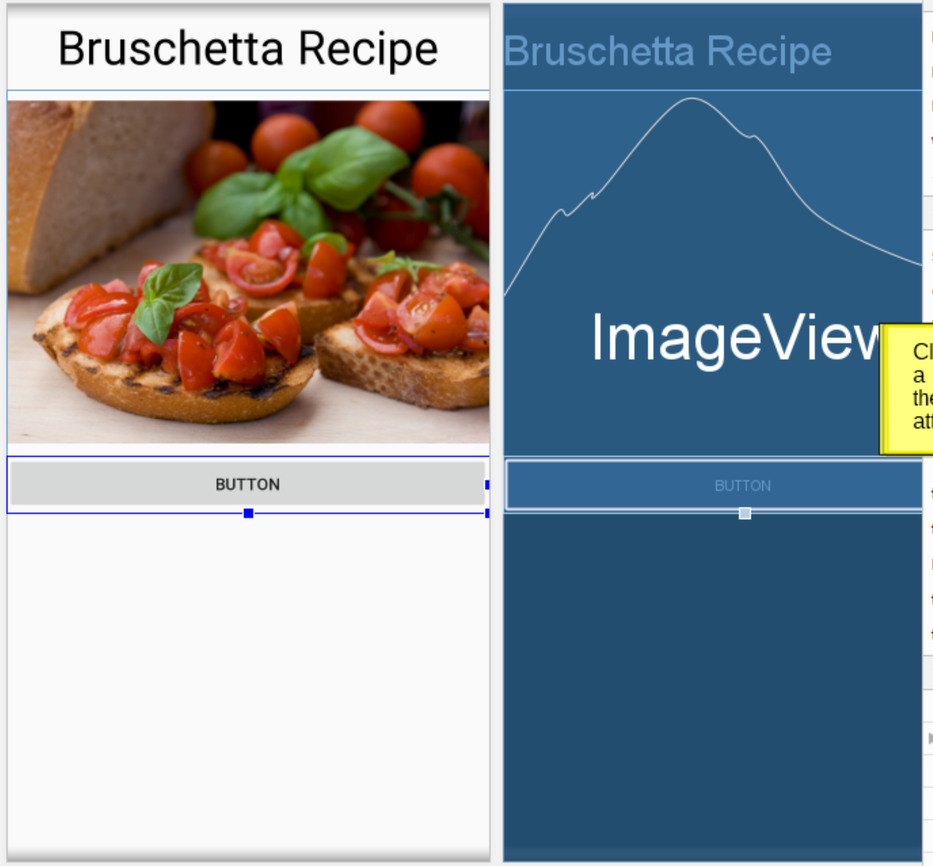
Common: TextView, Button, ImageView, RecyclerView, <fragment>, ScrollView, Switch

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/tx...
  - imageView
  - btnRecipe- "Button"

Pixel | 28 | AppTheme | Default (en-us) | 33%



Attributes

btnRecipe — Button

id: btnRecipe

Declared Attributes

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

style	@android:style/Widget
onClick	
textAppearance	@android:style/TextAp
typeface	
textSize	14sp
lineSpacingExtra	
textColor	@android:color/text_colo
textStyle	B I Tr

All Attributes

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

Click this button to add a string resource for the Button's text attribute

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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

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    - layout
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    - values
- Gradle Scripts

activity_main.xml | MainActivity.java

Resources

Select New string Value... from the Add new resource menu

Add new resource > New string Value...

Project	
app_name	Healthy Recipes
txtBruschettaImage	Bruschetta Picture
txtTitle	Bruschetta Recipe
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
defaultVoiceMailAlphaTag	Stemboodskap
dialog_alert_title	Aandag
emptyPhoneNumber	(Geen foonnommer)
fingerprint_icon_content_description	Vingerafdrukikoon
httpErrorBadUrl	Kon nie die bladsy oop maak nie, ...
httpErrorUnsupportedScheme	Die protokol word nie ondersteun ...

No Preview

OK Cancel

33%

ta Recipe

ageView

BUTTON

Attributes

btnRecipe Button

id btnRecipe

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

style @android:style/Widget

onClick

background @android:drawable/btn_c

text Button

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/text_colo

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_c

bufferType

capitalize

clickable true

contentDescription

Design Text

TODO Terminal Build 6: Logcat

Event Log

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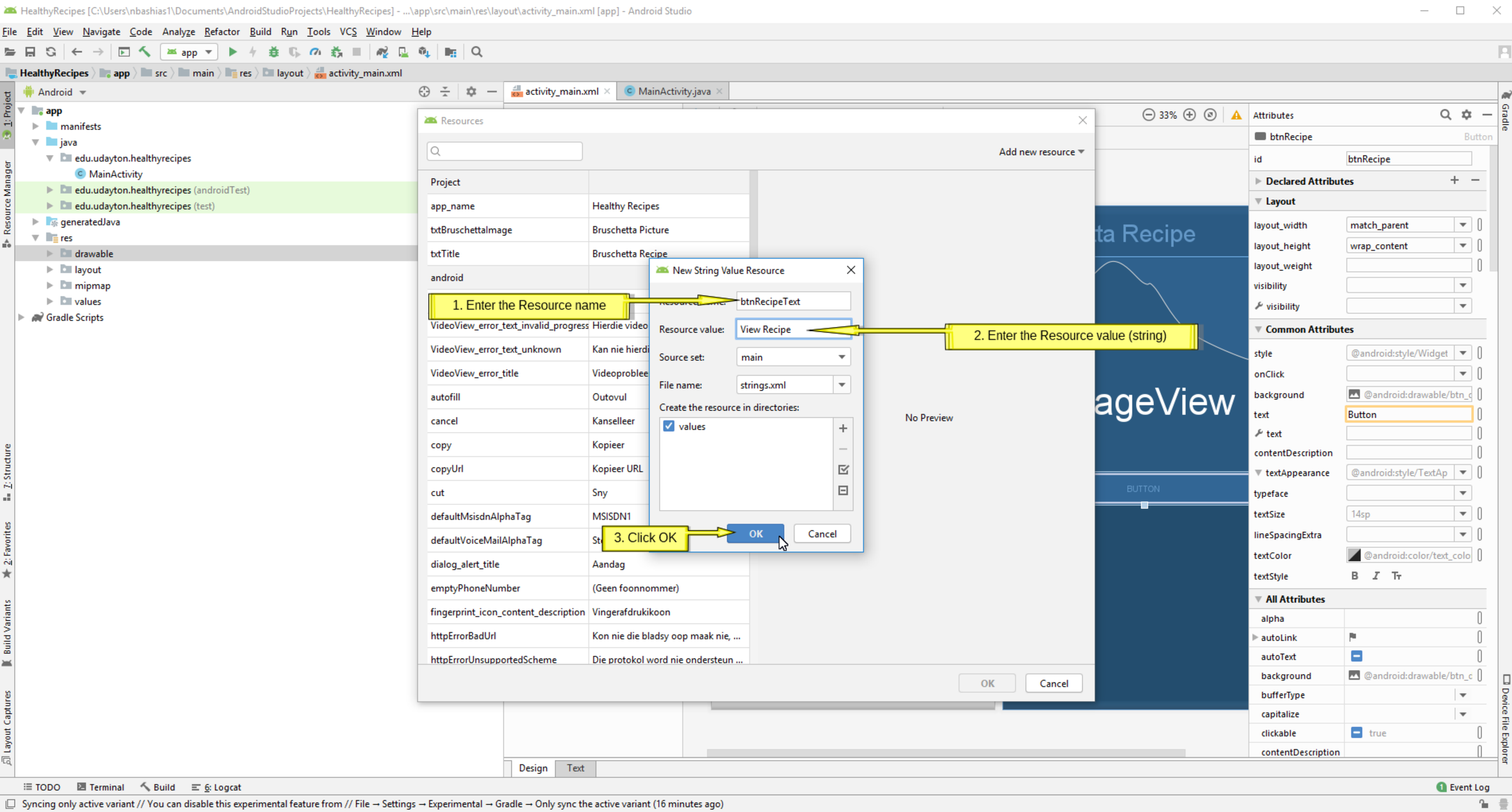
HealthyRecipes [C:\Users\nbashias1\Documents\AndroidStudioProjects\HealthyRecipes] - ...\app\src\main\res\layout\activity_main.xml [app] - Android Studio
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
HealthyRecipes app src main res layout activity_main.xml
activity_main.xml
MainActivity.java
Resources
Add new resource
Project
app_name Healthy Recipes
txtBruschettaImage Bruschetta Picture
txtTitle Bruschetta Recipe
1. Enter the Resource name
New String Value Resource
btnRecipeText
Resource value: View Recipe
2. Enter the Resource value (string)
Source set: main
File name: strings.xml
Create the resource in directories:
values
3. Click OK
OK
Cancel
No Preview
Attributes
btnRecipe
id btnRecipe
Declared Attributes
Layout
layout_width match_parent
layout_height wrap_content
Common Attributes
text Button
All Attributes
Design
Text
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activity_main.xml | MainActivity.java

Palette

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

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView - "@string/tx...
  - imageView
  - btnRecipe

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

VIEW RECIPE

Bruschetta Recipe

ImageView

VIEW RECIPE

Click this button to add a dimension resource for the Button's text size

Attributes

btnRecipe — Button

id: btnRecipe

Declared Attributes

Layout

layout_width	match_parent
layout_height	wrap_content
layout_weight	
visibility	
visibility	

Common Attributes

style	@android:style/Widget
onClick	
background	@android:drawable/btn_c
text	@string/btnRecipeText
text	
contentDescription	
textAppearance	@android:style/TextAp
typeface	
textColor	@android:color/text_colo
textStyle	B I Tr

All Attributes

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

Design | Text

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- Gradle Scripts

activity_main.xml | MainActivity.java

33%

Resources

Add new resource

New dimen Value...

Select New dimen Value... from the Add new resource menu

Project	
textPadding_10dp	10dp
titleTextSize	40sp
android	
app_icon_size	48dip
dialog_min_width_major	55%
dialog_min_width_minor	80%
notification_large_icon_height	64dp
notification_large_icon_width	64dp
thumbnail_height	360dp
thumbnail_width	360dp
Theme attributes	
actionBarSize	
dialogCornerRadius	
dialogPreferredPadding	
listPreferredItemPaddingLeft	
listPreferredItemPaddingRight	

No Preview

OK Cancel

ta Recipe

ageView

VIEW RECIPE

Attributes

btnRecipe Button

id btnRecipe

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

style @android:style/Widget

onClick

background @android:drawable/btn_c

text @string/btnRecipeText

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/text_colo

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_c

bufferType

capitalize

clickable true

contentDescription

Design Text

TODO Terminal Build 6: Logcat

Event Log

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activity_main.xml | MainActivity.java

Resources

Add new resource

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textPadding_10dp	10dp
titleTextSize	40sp
android	
app_icon_size	48dip
dialog_min_width_major	55%
dialog_min_width_minor	80%
notification_large_icon_height	64dp
notification_large_icon_width	64dp
thumbnail_height	360dp
thumbnail_width	360dp
Theme attributes	
actionBarSize	
dialogCornerRadius	
dialogPreferredPadding	
listPreferredItemPaddingLeft	
listPreferredItemPaddingRight	

No Preview

OK Cancel

New Dimension Value Resource

Resource name: btnRecipeTextSize

Resource value: 30sp

Source set: main

File name: dimens.xml

Create the resource in directories:

values

OK Cancel

2. Enter the Resource value (text size)

3. Click OK

Attributes

btnRecipe Button

id btnRecipe

Declared Attributes

Layout

layout_width match_parent

layout_height wrap_content

layout_weight

visibility

visibility

Common Attributes

style @android:style/Widget

onClick

background @android:drawable/btn_c

text @string/btnRecipeText

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/text_colo

textStyle

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn_c

bufferType

capitalize

clickable true

contentDescription

Design Text

TODO Terminal Build 6: Logcat

Event Log

Syncing only active variant // You can disable this experimental feature from // File → Settings → Experimental → Gradle → Only sync the active variant (17 minutes ago)

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

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

app

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

Android

- app
  - manifests
  - java
    - edu.udayton.healthyrecipes
      - MainActivity
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  - generatedJava
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- Gradle Scripts

activity_main.xml | MainActivity.java

Palette

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

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

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/tx...
  - imageView
  - btnRecipe- "@string/btnR...

Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

VIEW RECIPE

Bruschetta Recipe

VIEW RECIPE

Scroll down to the textAllCaps attribute.

Note that this is a boolean attribute.

Click on the associate check box to set the attribute to true ...

Hmmm... our button text is in all caps, but we did not type it that way.

We can fix this.

Attributes

btnRecipe — Button

scrollbarTrackVertica	@android:drawable/confi
scrollbars	
selectAllOnFocus	
shadowColor	
shadowDx	
shadowDy	
shadowRadius	
singleLine	
soundEffectsEnable	
style	@android:style/Widget
tag	
targetApi	
[default] "true"	
	true
	@android:color/text_colo
ghlight	@android:color/highlight
nt	@android:color/hint_fore
textColorLink	#D81B60
textCursorDrawable	@android:drawable/text_c
textIsSelectable	
textScaleX	
textSize	@dimen/btnRecipeText
textStyle	normal
theme	
transformPivotX	
transformPivotY	
translationX	
translationY	
typeface	
verticalScrollbarPosit	
visibility	
width	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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

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

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- LinearLayout(vertical)
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Pixel | 28 | AppTheme | Default (en-us) | 33%

Bruschetta Recipe

VIEW RECIPE

Bruschetta Recipe

VIEW RECIPE

Then click the check box a second time to set the attribute to false.

Attributes

btnRecipe — Button

scrollbarTrackVertica	@android:drawable/confi
scrollbars	
selectAllOnFocus	
shadowColor	
shadowDx	
shadowDy	
shadowRadius	
singleLine	
soundEffectsEnable	
style	@android:style/Widget
tag	
targetApi	
text	@string/btnRecipeText
[illegible]	true
textColor	@android:color/text_colo
textColorHighlight	@android:color/highlight
textColorHint	@android:color/hint_fore
textColorLink	#D81B60
textCursorDrawable	@android:drawable/text_c
textIsSelectable	
textScaleX	
textSize	@dimen/btnRecipeText
textStyle	normal
theme	
transformPivotX	
transformPivotY	
translationX	
translationY	
typeface	
verticalScrollbarPosit	
visibility	
width	

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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activity_main.xml | MainActivity.java

Palette

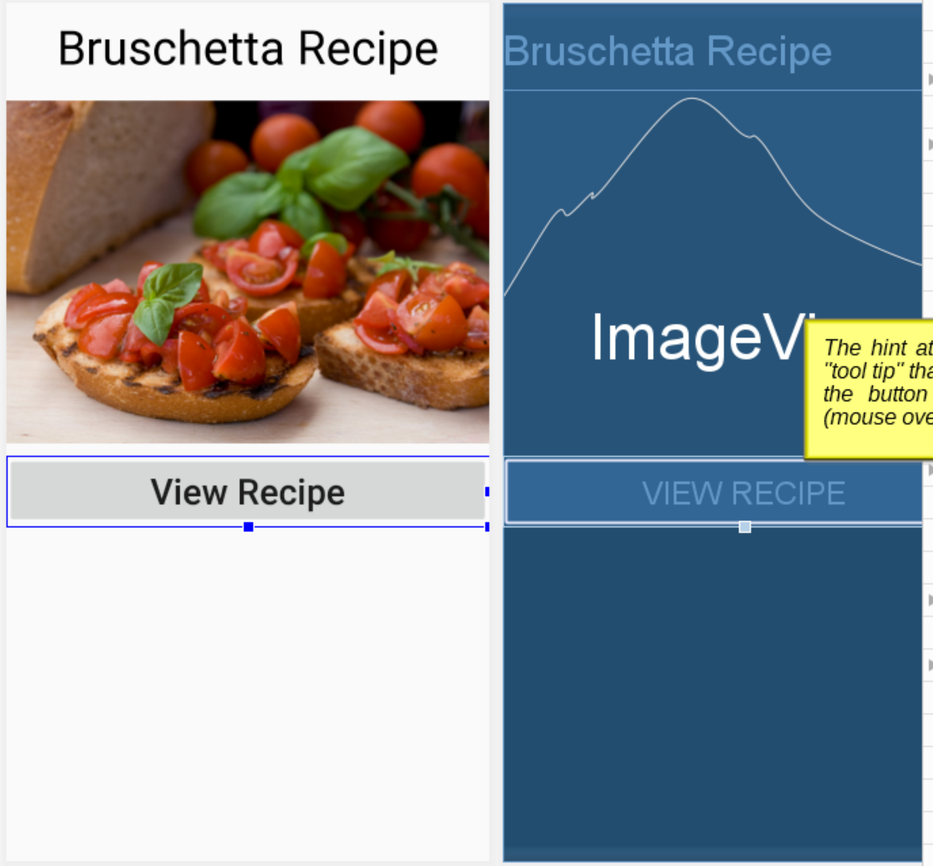
Common: TextView, Button, ImageView, RecyclerView, <fragment>, ScrollView, Switch

Text | Buttons | Widgets | Layouts | Containers | Google | Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView - "@string/tx...
  - imageView
  - btnRecipe - "@string/btnR...

Pixel | 28 | AppTheme | Default (en-us) | 33%



Attributes

btnRecipe — Button

filterTouchesWhenC	
fitsSystemWindows	
focusable	true
focusableInTouchMo	
foreground	
foregroundGravity	
freezesText	
gravity	center_vertical|center_hori
hapticFeedbackEnab	
height	
hint	
id	btnRecipe
imeActionId	
inputType	
isScrollContainer	
keepScreenOn	
layerType	
layout_gravity	
layout_height	wrap_content
layout_margin	[?, ?, ?, ?, ?]
layout_weight	
layout_width	match_parent
lineSpacingExtra	
lineSpacingMultiplie	
lines	
linksClickable	
longClickable	
marqueeRepeatLimit	

The hint attribute is like a "tool tip" that appears when the button is highlighted (mouse over).

Click this button to add a string resource for the button's hint text.

Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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activity_main.xml | MainActivity.java

33%

Resources

Add new resource

New string Value...

Select New string Value... from the Add new resource menu

Project	
app_name	Healthy Recipes
btnRecipeText	View Recipe
txtBruschettaImage	Bruschetta Picture
txtTitle	Bruschetta Recipe
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
defaultVoiceMailAlphaTag	Stemboodskap
dialog_alert_title	Aandag
emptyPhoneNumber	(Geen foonnommer)
fingerprint_icon_content_description	Vingerafdrukikoon
httpErrorBadUrl	Kon nie die bladsy oop maak nie, ...

No Preview

OK Cancel

Attributes

btnRecipe Button

filterTouchesWhenC	
fitsSystemWindows	
focusable	true
focusableInTouchMo	
foreground	
foregroundGravity	
freezesText	
gravity	center_vertical|center_hori
hapticFeedbackEnab	
height	
hint	
id	btnRecipe
imeActionId	
imeActionLabel	
imeOptions	
includeFontPadding	
inputMethod	
inputType	
isScrollContainer	
keepScreenOn	
layerType	
layout_gravity	
layout_height	wrap_content
layout_margin	[?, ?, ?, ?, ?]
layout_weight	
layout_width	match_parent
lineSpacingExtra	
lineSpacingMultiplie	
lines	
linksClickable	
longClickable	
marqueeRepeatLimit	

Design Text

TODO Terminal Build 6: Logcat Event Log

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Resources

Add new resource

Project	
app_name	Healthy Recipes
btnRecipeText	View Recipe
txtBruschettaImage	Bruschetta Picture
txtTitle	Bruschetta Re
VideoView_error_button	OK
VideoView_error_text_invalid_progress	Hierdie video
VideoView_error_text_unknown	Kan nie hierdi
VideoView_error_title	Videoproblee
autofill	Outovul
cancel	Kanselleer
copy	Kopieer
copyUrl	Kopieer URL
cut	Sny
defaultMsisdnAlphaTag	MSISDN1
defaultVoiceMailAlphaTag	Stemboodskap
dialog_alert_title	Aandag
emptyPhoneNumber	(Geen foonnommer)
fingerprint_icon_content_description	Vingerafdrukikoon
httpErrorBadUrl	Kon nie die bladsy oop maak nie, ...

1. Enter the Resource name

New String Value Resource

Resource name: btnRecipeHint

Resource value: Click to see Bruschetta recipe

2. Enter the Resource value (string)

Source set: main

File name: strings.xml

Create the resource in directories:

values

3. Click OK

OK Cancel

No Preview

OK Cancel

33%

Attributes

btnRecipe Button

filterTouchesWhenC	
fitsSystemWindows	
focusable	true
focusableInTouchMo	
foreground	
foregroundGravity	
freezesText	
gravity	center_vertical|center_hori
hapticFeedbackEnab	
height	
hint	
id	btnRecipe
imeActionId	
imeActionLabel	
imeOptions	
includeFontPadding	
inputMethod	
inputType	
isScrollContainer	
keepScreenOn	
layerType	
layout_gravity	
layout_height	wrap_content
layout_margin	[?, ?, ?, ?, ?]
layout_weight	
layout_width	match_parent
lineSpacingExtra	
lineSpacingMultiplie	
lines	
linksClickable	
longClickable	
marqueeRepeatLimit	

Design Text

TODO Terminal Build 6: Logcat Event Log

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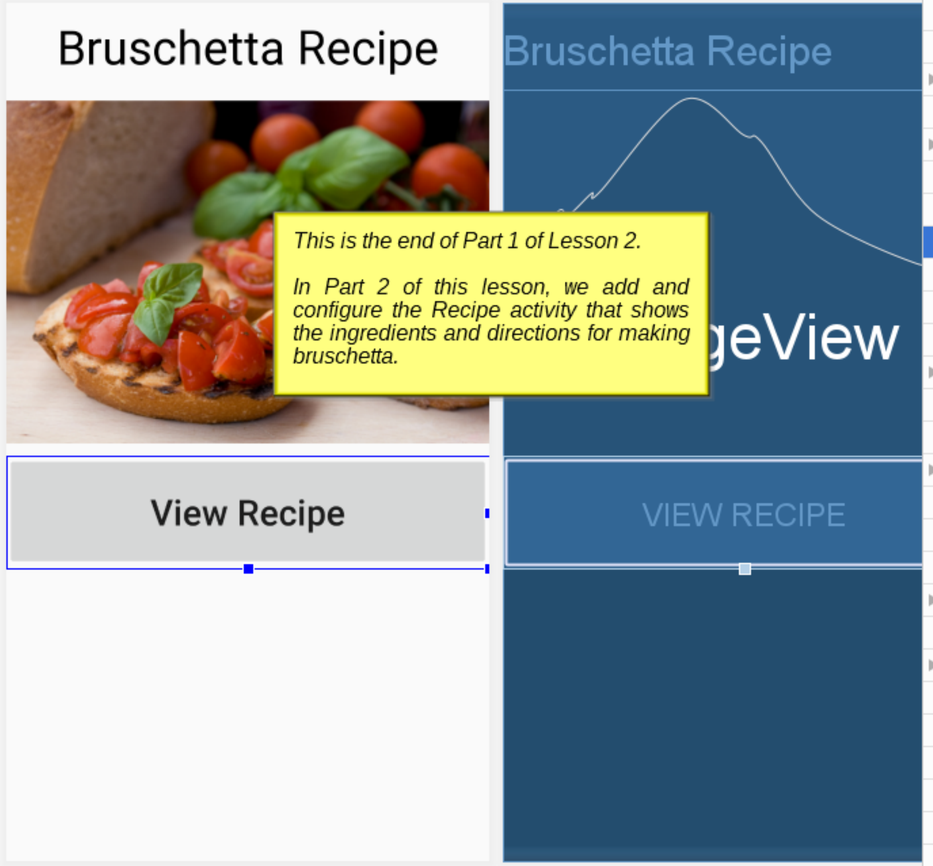
  - titleTextView - "@string/tx...
  - imageView
  - btnRecipe - "@string/btnR...

Pixel | 28 | AppTheme | Default (en-us) | 33%



Attributes — btnRecipe (Button)

filterTouchesWhenC	
fitsSystemWindows	
focusable	true
focusableInTouchMo	
foreground	
foregroundGravity	
freezesText	
gravity	center_vertical|center_hori
hapticFeedbackEnab	
height	
hint	@string/btnRecipeHint
id	btnRecipe
imeActionId	
imeActionLabel	
imeOptions	
includeFontPadding	
inputMethod	
inputType	
isScrollContainer	
keepScreenOn	
layerType	
layout_gravity	
layout_height	wrap_content
layout_margin	[?, ?, ?, ?, ?]
layout_weight	
layout_width	match_parent
lineSpacingExtra	
lineSpacingMultiplie	
lines	
linksClickable	
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Design | Text

TODO | Terminal | Build | 6: Logcat | Event Log

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