

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Design Text

activity\_main.xml

MainActivity.java

Palette

Common Ab TextView

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

Pixel 28 Default (en-us) 32% Attributes

Attributes

Ab <unnamed> TextView

id

Declared Attributes

Layout

In Part 1 of Lesson 4, we customized our app's launcher icon, and created (string, dimension and color) resources.

In this part of Lesson 4, we customize the app's layout.

In Part 3 of Lesson 4, we will add the Java code for the app's functionality, and (of course) run and test our app.

Component Tree

ConstraintLayout

Ab TextView- "Hello World!"

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (10 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle Scripts

Build Variants

Structure

Layout Captures

2: Favorites

As in previous lessons,  
we'll change the layout to a  
vertical LinearLayout

We start by switching to the  
layout's text view

Design Text

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

ConstraintLayout

Ab TextView- "Hello World!"

Attributes

Ab <unnamed> TextView

id

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

visibility

visibility

Common Attributes

text Hello World!

text

contentDescription

textAppearance @android:style/TextAp

fontFamily

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

Gradle

Event Log

Gradle build finished in 5 s 71 ms (10 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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Project

Resource Manager

Preview

Palette

Gradle

Preview

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    - styles.xml
- Gradle Scripts

Build Variants

Structure

Favorites

Layout Captures

2: Favorites

Layout

Design

Text

Event Log

Gradle build finished in 5 s 71 ms (10 minutes ago)

43 chars 2:45 CRLF 4 spaces

1

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
```

Select the current ConstraintLayout path name, then type 'Linear' ...

Hello World!

Device File Explorer

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MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project Resource Manager

Preview

... select the LinearLayout from the code completion menu

Linear

Design Text

Linear

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (11 minutes ago) 2:8 CRLF UTF-8 4 spaces

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

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

</LinearLayout>
```

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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MedicalCalculator app src main res layout activity\_main.xml

Android

Project

Resource Manager

Gradle Scripts

Build Variants

Layout Captures

2 Favorites

Layout

Design

Text

Preview

Palette

Gradle

Event Log

2:14 CRLF 4 spaces

1

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

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

</LinearLayout>
```

Hello World!

Switch back to the layout's design view

Gradle build finished in 5 s 71 ms (11 minutes ago)

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MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2:Favorites

3:Structure

4:Layout Captures

5:Favorites

Android

app

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

Gradle Scripts

Component Tree

LinearLayout(horizontal)  
Ab TextView- "Hello World!"

Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

Common Attributes

All Attributes

Design Text

32% 32%

Pixel 28 Light Default (en-us)

Orientation: Vertical

Text: Hello World!

Visibility: Visible

Gravity: Center

Background: Dark Blue

Context: MainActivity

Event Log

Gradle build finished in 5 s 71 ms (11 minutes ago)

To change its orientation, first select the LinearLayout in the Component Tree

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The 'activity\_main.xml' layout file is being edited. The layout contains a single TextView with the text 'Hello World!'. A yellow callout box with an arrow points to the 'Component Tree' section of the palette, which shows the selected 'LinearLayout(horizontal)' node. A tooltip on the callout box says: 'To change its orientation, first select the LinearLayout in the Component Tree'. The palette also lists other components like Button, ImageView, RecyclerView, ScrollView, and Switch. The attributes panel on the right shows settings for the LinearLayout, including layout\_width: match\_parent, layout\_height: match\_parent, visibility: visible, and gravity: center. The status bar at the bottom indicates a successful Gradle build.

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MedicalCalculator app src main res layout activity\_main.xml

1:Project

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2:Structure

Layout Captures

2: Favorites

1:Project

Android

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    - styles.xml

Component Tree

LinearLayout(horizontal)  
Ab TextView- "Hello World!"

Design Text

Palette

Common Ab TextView

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

Default (en-us)

32% Attributes

<unnamed> LinearLayout

id

Declared Attributes

Layout

layout\_width match\_parent

layout\_height match\_parent

visibility

visibility

Common Attributes

orientation

gravity

All Attributes

actionBarNavMode

addStatesFromChild

alpha

alwaysDrawnWithCa

animateLayoutChani

animationCache

background

baselineAligned

baselineAlignedChil

clickable

clipChildren

clipToPadding

contentDescription

context .MainActivity

descendantFocusab

divider

dividerPadding

drawingCacheQualit

duplicateParentState

Click to view the orientation values

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (11 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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MedicalCalculator app src main res layout activity\_main.xml

1:Project

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2: Favorites

1:Project

Android

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  - layout
  - mipmap
  - values
    - colors.xml
    - dimens.xml
    - strings.xml
    - styles.xml
- Gradle Scripts

activity\_main.xml

MainActivity.java

Attributes

32% 32%

Pixel 28 Light Default (en-us)

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Hello World!

Hello World!

Component Tree

LinearLayout(horizontal)  
Ab TextView- "Hello World!"

Select the vertical orientation value

Attributes

orientation horizontal vertical

onBarNavMode

addStatesFromChild

alpha

alwaysDrawnWithCa

animateLayoutChani

animationCache

background

baselineAligned

baselineAlignedChil

clickable

clipChildren

clipToPadding

contentDescription

context .MainActivity

descendantFocusab

divider

dividerPadding

drawingCacheQualit

duplicateParentState

Device File Explorer

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (11 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The 'activity\_main.xml' layout file is selected. In the center, there is a preview window showing a white rectangular area with a blue border containing the text 'Hello World!'. Below the preview is a component tree showing a 'LinearLayout(horizontal)' containing a 'TextView' with the text 'Hello World!'. To the right of the preview is the 'Attributes' panel, which lists various XML attributes for the selected view. A yellow callout box with the text 'Select the vertical orientation value' points to the 'gravity' dropdown in the 'Common Attributes' section, where 'horizontal' is currently selected. Other options like 'vertical' are visible in the dropdown. The 'Orientation' dropdown in the Attributes panel is also highlighted with a yellow arrow.

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1:Project

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

Component Tree

LinearLayout(vertical)  
Ab TextView "Hello World!"

Attributes

Ab <unnamed>  
id  
Declared Attributes  
Layout  
layout\_width: wrap\_content  
layout\_height: wrap\_content  
layout\_weight:  
visibility:  
visibility  
Common Attributes  
text: Hello World!  
text  
contentDescription:  
textAppearance: @android:style/TextAp  
typeface:  
textSize: 14sp  
lineSpacingExtra:  
textColor: @android:color/secondary  
textStyle: B I Tr  
All Attributes

Design Text

As in Lesson 3, we can customize the auto-generated Hello World! TextView for our title  
Select the TextView

Gradle build finished in 5 s 71 ms (11 minutes ago)

Event Log

The screenshot shows the Android Studio layout editor for the 'activity\_main.xml' file. The left sidebar displays the project structure, and the top navigation bar includes File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, and Help. The main area features a palette of UI components like TextView, Button, ImageView, RecyclerView, ScrollView, and Switch. A component tree on the left lists the layout structure: LinearLayout (vertical) containing an Ab TextView with the text "Hello World!". The right side shows a preview of the layout with the text "Hello World!" and the properties panel for the selected TextView, which is currently set to bold text. A yellow callout box with the text "As in Lesson 3, we can customize the auto-generated Hello World! TextView for our title" and "Select the TextView" is overlaid on the interface, pointing to the component tree entry.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle Scripts

Build Variants

2: Favorites

Layout Captures

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

Component Tree

LinearLayout(vertical)  
Ab titleTextView- "Hello World!"

Pixel 28 Light Default (en-us) 32% Attributes

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Legacy

titleTextView

Set the TextView's ID

Attributes

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text Hello World!

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (12 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle Scripts

Build Variants

2: Favorites

Layout Captures

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    - dimens.xml
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    - styles.xml

Component Tree

LinearLayout(vertical)  
Ab titleTextView- "Hello World!"

Palette

Common Ab TextView

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

Pixel 28 Light Default (en-us) 32% Attributes

Ab titleTextView

id titleTextView

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text Hello World!

text

contentDescription

textAppearance

@and

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Device File Explorer

Design Text

Use the Resource Manager to set the text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (12 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The 'activity\_main.xml' layout file is selected. The left sidebar shows the project structure with the 'values' folder expanded, displaying files like 'colors.xml', 'dimens.xml', 'strings.xml', and 'styles.xml'. The main area shows the layout editor with a white preview screen containing the text 'Hello World!' and a component tree below it. The right side has a palette of UI components and an attributes panel for the selected 'titleTextView'. The 'text' attribute is currently set to 'Hello World!', with a note in the attributes panel suggesting to 'Use the Resource Manager to set the text'. The bottom navigation bar includes tabs for 'Design' and 'Text', with 'Text' being active.

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project Resource Manager

Android

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    - dimens.xml
    - strings.xml
    - styles.xml
- Gradle Scripts

Resource Manager

1:Project

Resources

Common Text Buttons Widgets Layouts Containers Google Legacy

Add new resource

Name: txtTitleText

Default Convert Patient Weight

Project	Default
app_name	Medical Calculator
btnConvertText	Convert Weight
txtRadKilosToLbs	Convert Kilograms to Pounds
txtRadLbsToKilos	Convert Pounds to Kilograms
<b>txtTitleText</b>	<b>Convert Patient Weight</b>
txtWeightHint	Weight of Patient
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 foornommer)

Component Tree

LinearLayout

Ab titleTextView

1. Select the txtTitleText string resource

2. Click OK

Attributes

Ab titleTextView

id titleTextView

Declared Attributes

Layout

Common Attributes

All Attributes

EDIT TRANSLATIONS

OK Cancel

Design Text

TODO Terminal Build Logcat Profiler Run

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Event Log

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1:Project

Resource Manager

1:Project

Java

edu.udayton.medicalcalculator

MainActivity

edu.udayton.medicalcalculator (androidTest)

edu.udayton.medicalcalculator (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Layout

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Ab TextView

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab titleTextView

id titleTextView

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text @string/txtTitleText

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Device File Explorer

Convert Patient Weight

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Use the Resource Manager to set the text size

Gradle build finished in 5 s 71 ms (13 minutes ago)

Event Log

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Gradle Scripts

Build Variants

2: Favorites

Layout Captures

Android

Palette

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

Resources

Add new resource

Name: titleTextSize

Default: 36sp

Dimension	Value
btnConvertTextSize	25sp
margin5dp	5dp
radBtnTextSize	20sp
textFieldTextSize	25sp
titleTextSize	36sp
topMargin15dp	15dp
txtResultTextSize	25sp
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

Component Tree

- LinearLayout
  - Ab titleTextView

1. Select the titleTextSize dimension resource

2. Click OK

OK Cancel

Attributes

- Ab titleTextView
- id titleTextView
- Declared Attributes
- Layout
  - layout\_width wrap\_content
  - layout\_height wrap\_content
  - layout\_weight
  - visibility
  - visibility
- Common Attributes
  - text @string/txtTitleText
  - text
  - contentDescription
  - textAppearance @android:style/TextAp
  - typeface
  - textSize 14sp
  - lineSpacingExtra
  - textColor @android:color/secondary
  - textStyle B I Tr
- All Attributes
  - alpha
  - autoLink
  - autoText
  - background
  - bufferType
  - capitalize
  - clickable
  - contentDescription
  - cursorVisible
  - digits
  - drawableBottom

Design Text

TODO Terminal Build Logcat Profiler Run

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Convert Patient Weight

Expand the padding attribute group

Attributes

	Ab titleTextView
numeric	■
onClick	▼
overScrollMode	▼
padding	[?, ?, ?, ?, ?]
password	■
phoneNumber	■
privateImeOptions	■
requiresFadingEdge	■
rotation	■
rotationX	■
rotationY	■
saveEnabled	■
scaleX	■
scaleY	■
scrollHorizontally	■
scrollI	■
scrollL	■
scrollbarAlwaysDraw	■
scrollbarAlwaysDraw	■
scrollbarDefaultDela	300
scrollbarFadeDuratio	250
scrollbarSize	10dip
scrollbarStyle	▼
scrollbarThumbHoriz	• @android:drawable/scrollk
scrollbarThumbVerti	• @android:drawable/scrollk
scrollbarTrackHorizo	■ @null
scrollbarTrackVertica	■ @null
scrollbars	■
selectAllOnFocus	■
shadowColor	■
shadowDx	■
shadowDy	■

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (13 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Convert Patient Weight

Convert Patient Weight

Attributes

Ab titleTextView

numeric

onClick

overScrollMode

padding

paddingLeft

paddingTop

paddingRight

paddingBottom

password

phoneNumber

privateImeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollIX

scrollY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela

scrollbarFadeDuratio

scrollbarSize

scrollbarStyle

scrollbarThumbHoriz

scrollbarThumbVerti

scrollbarTrackHorizo

scrollbarTrackVertica

Use the Resource Manager to set the top padding

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

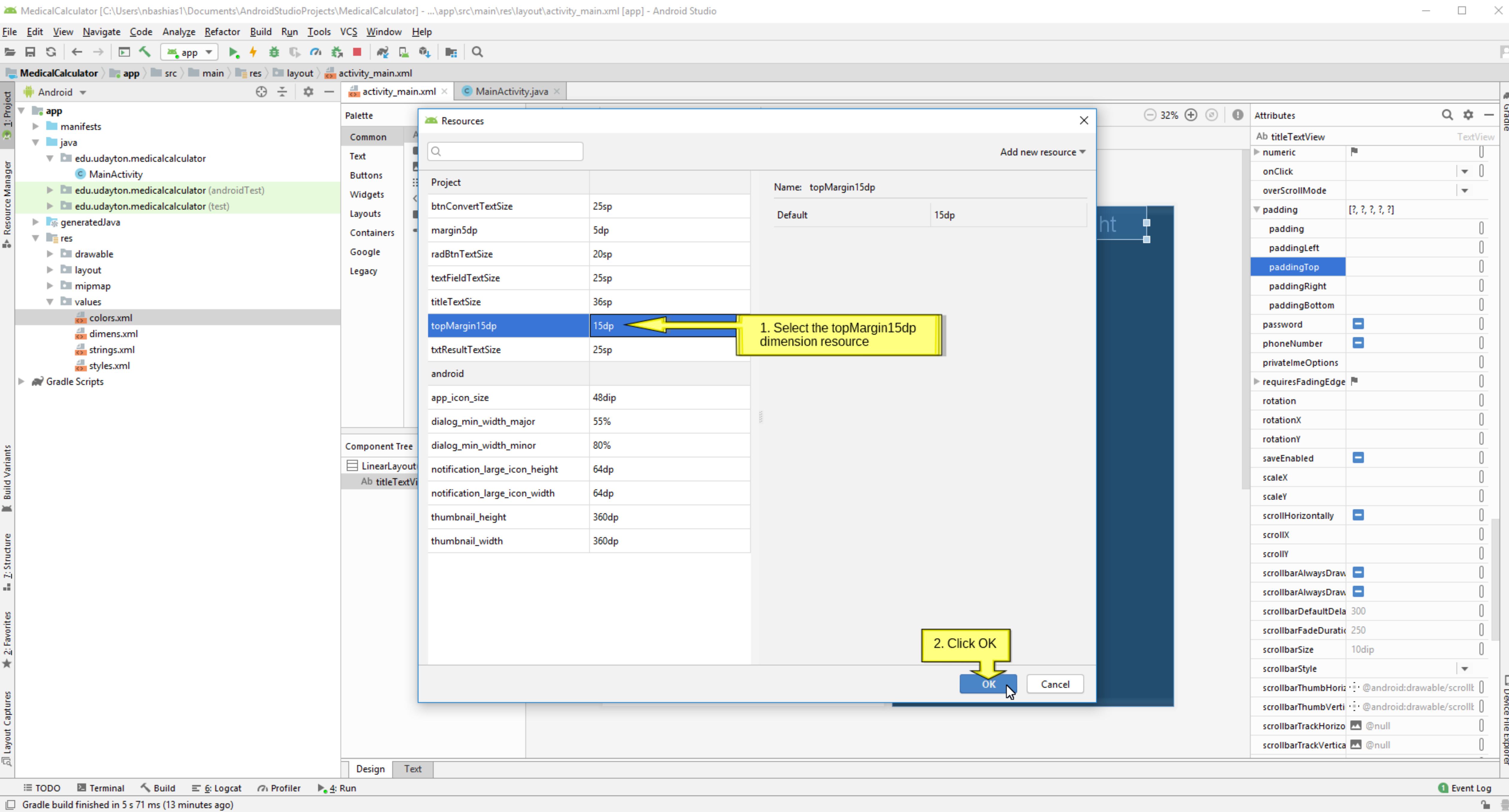
Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (13 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The 'activity\_main.xml' layout is being edited. The layout contains a single TextView with the text 'Convert Patient Weight'. The Android Studio interface includes a Project tree, Resource Manager, and various toolbars and panels for editing XML and Java code.



MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

1:Project

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

Resource Manager

Activity Main

Attributes

Ab titleTextView

numerics

onClick

overScrollMode

padding

paddingTop @dimen/topMargin15dp

paddingLeft

paddingRight

paddingBottom

password

phoneNumber

privateImeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollIX

scrollY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDelta

scrollbarFadeDuration

scrollbarSize

scrollbarStyle

scrollbarThumbHorizontal

scrollbarThumbVertical

scrollbarTrackHorizontal

scrollbarTrackVertical

Device File Explorer

Gradle

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Design Text

Convert Patient Weight

Convert Patient Weight

Use the Resource Manager to set the bottom padding

Gradle build finished in 5 s 71 ms (13 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

1:Project

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

Resources

Common Text Buttons Widgets Layouts Containers Google Legacy

Name: margin5dp

Default 5dp

btnConvertTextSize 25sp

margin5dp 5dp

radBtnTextSize 20sp

textFieldTextSize 25sp

titleTextSize 36sp

topMargin15dp 15dp

txtResultTextSize 25sp

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

Add new resource

Component Tree

LinearLayout Ab titleTextVi

1. Select the margin5dp dimension resource

2. Click OK

OK Cancel

Attributes

Ab titleTextView

numeric

onClick

overScrollMode

padding

paddingLeft

paddingTop @dimen/topMargin15dp

paddingRight

paddingBottom

password

phoneNumber

privateImeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollI

scrollY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela 300

scrollbarFadeDuratio 250

scrollbarSize 10dip

scrollbarStyle

scrollbarThumbHoriz @android:drawable/scrol

scrollbarThumbVerti @android:drawable/scrol

scrollbarTrackHorizo @null

scrollbarTrackVertica @null

32% + - !

Gradle

Device File Explorer

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (13 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

1:Project

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

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTit..."

Attributes

Ab titleTextView

titleTextview

focusable

focusableInTouchMode

foreground

foregroundGravity

freezesText

gravity

hapticFeedbackEnabled

height

hint

id titleTextView

imeActionId

imeActionLabel

imeOptions

includeFontPadding

inputMethod

inputType

isScrollContainer

keepScreenOn

layerType

layout\_constraintBottom

layout\_constraintLeft

layout\_constraintRight

layout\_constraintTop

layout\_gravity

layout\_height wrap\_content

layout\_margin [?, ?, ?, ?]

layout\_weight

layout\_width wrap\_content

lineSpacingExtra

lineSpacingMultiplier

lines

linkClickable

Design Text

Convert Patient Weight

To center the title text in the TextView, first expand the gravity attribute

32% 32%

Pixel 28 Light Default (en-us)

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (14 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

1:Project

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

Palette

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Attributes

Ab titleTextView

titleTextview

focusable

focusableInTouchMode

foreground

foregroundGravity

freezesText

gravity

bottom

clip\_horizontal

clip\_vertical

start

right

center\_horizontal

fill

fill\_horizontal

top

left

center\_vertical

fill\_vertical

end

hapticFeedbackEnabled

height

hint

id titleTextView

imeActionId

imeActionLabel

imeOptions

includeFontPadding

inputMethod

inputType

isScrollContainer

keepScreenOn

Pixel 28 Light Default (en-us)

32% 32%

Convert Patient Weight

Select the 'center' setting (i.e., click to set it to true)

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (14 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

1:Project

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

Resource Manager

Convert Patient Weight

Convert Patient Weight

Palette

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

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txTtitl..."

Attributes

Ab titleTextView TextView id titleTextView Declared Attributes Layout layout\_width wrap\_content layout\_height wrap\_content layout\_weight visibility visibility Common Attributes text @string/txTtitl... text contentDescription textAppearance @android:style/TextAp... typeface textSize @dimen/titleTextSize lineSpacingExtra textColor @android:color/secondary textStyle All Attributes alpha autoLink autoText background bufferType capitalize clickable contentDescription cursorVisible digits drawableBottom

Let's change the text color to the true red color we set up in Part 1

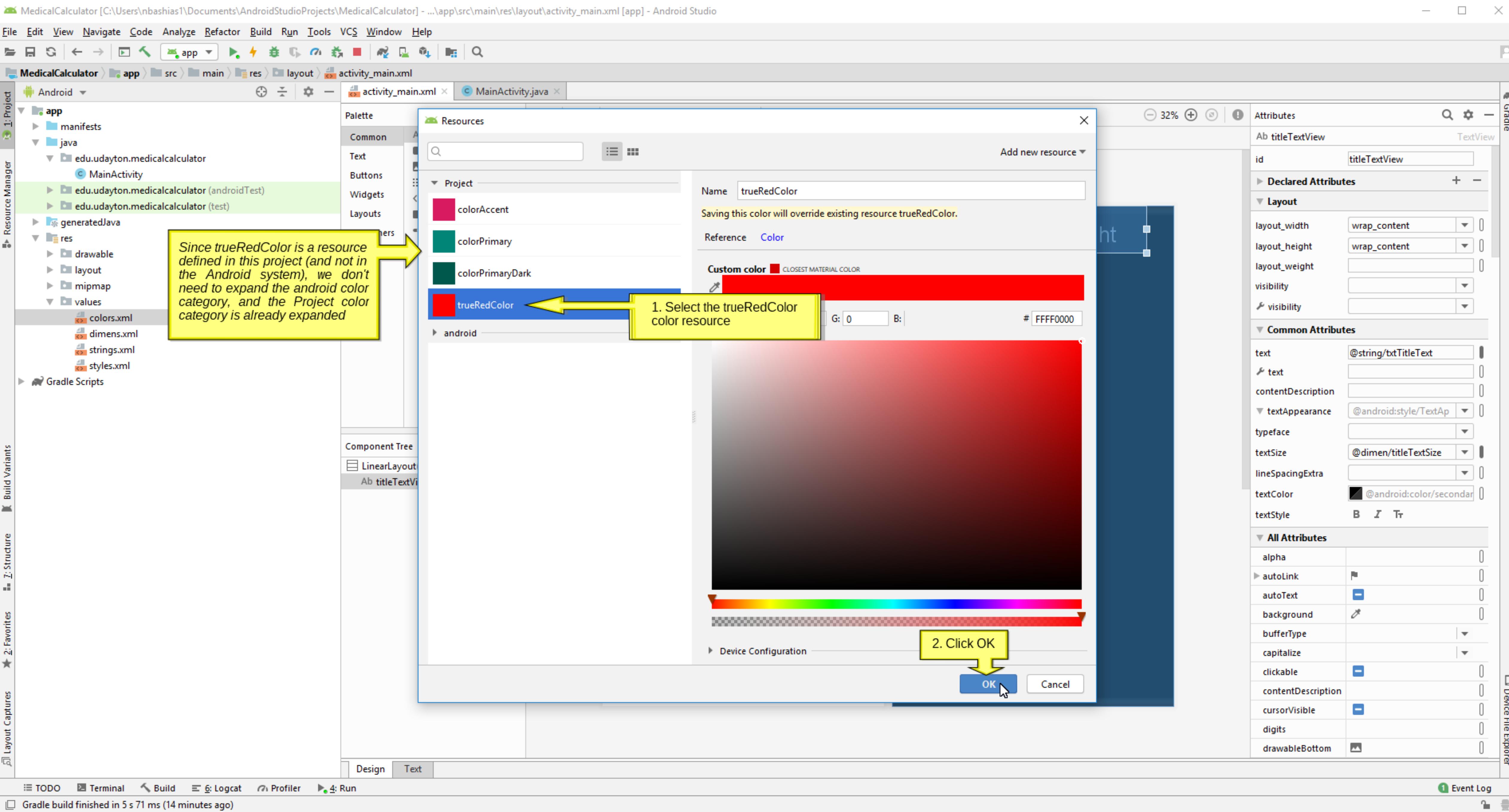
Click to bring up the Resource Manager

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (14 minutes ago)

Event Log



MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

2: Favorites

Layout Captures

3: Structure

4: All

Android

app

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

generatedJava

res

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

Gradle Scripts

Build Variants

Component Tree

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

activity\_main.xml

MainActivity.java

Pixel 28 Light Default (en-us) 32% Attributes

Common Ab TextView

Text Button

Buttons ImageView

Widgets RecyclerView

Layouts <> <fragment>

Containers ScrollView

Google Switch

Legacy

Convert Patient Weight

To center the text in the layout, we can expand the TextView's width to match the layout's width

Click to display the layout\_width attribute value options

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text @string/txTtitl...

text

contentDescription

textAppearance @android:style/TextAp...

typeface

textSize @dimen/titleTextSize

lineSpacingExtra

textColor @color/trueRedColor

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Device File Explorer

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (14 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Convert Patient Weight

Convert Patient Weight

Select the match\_parent option

Attributes

Ab titleTextView

id titleText

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height match\_parent

layout\_weight wrap\_content

visibility visibility

Common Attributes

text @string/txtTitleText

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize @dimen/titleTextSize

lineSpacingExtra

textColor @color/trueRedColor

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (14 minutes ago)

Event Log

The screenshot shows the Android Studio interface for a project named "MedicalCalculator". The main window displays the "activity\_main.xml" layout file. The layout consists of a single red text view with the text "Convert Patient Weight" centered on the screen. The "Design" tab is selected at the bottom. In the "Attributes" panel on the right, the "layout\_height" attribute is currently set to "wrap\_content". A yellow callout box with the text "Select the match\_parent option" points to the dropdown menu where "match\_parent" is highlighted with a blue selection bar. The "Component Tree" panel shows a "LinearLayout(vertical)" containing an "Ab titleTextView". The "values" folder in the Project structure is highlighted with a green selection bar.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1: Project

1: Resource Manager

1: Build Variants

1: Favorites

1: Layout Captures

1: Structure

1: Favorites

1: Layout Captures

1: Design

1: Text

1: TODO

1: Terminal

1: Build

1: Logcat

1: Profiler

1: Run

1: Event Log

1: Gradle

1: Device File Explorer

1. Select the Text palette category

2. Add a Number Text Field (EditText) to the layout, with:

*id: txtWeight  
hint: @string/txtWeightText  
text size: @dimen/textFieldTextSize  
top Padding: @dimen/margin5dp  
bottom Padding: @dimen/margin5dp*

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

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Attributes

Ab titleTextView

id titleTextView

Declared Attributes

Layout

layout\_width match\_parent

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text @string/txtTitleText

text

contentDescription

textAppearance

typeface

textSize @dimen/titleTextSize

lineSpacingExtra

textColor @color/trueRedColor

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Pixel 28 Light Default (en-us) 32% Attributes

Convert Patient Weight

Convert Patient Weight

Gradle build finished in 5 s 71 ms (15 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Activity Main XML

Attributes

Ab titleTextView

id titleTextView

Declared Attributes

Layout

layout\_width match\_parent

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text @string/txtTitleText

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize @dimen/titleTextSize

lineSpacingExtra

textColor @color/trueRedColor

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Pixel 28 Light Default (en-us) 32% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy Ab Number Ab Number (S Ab Number (D Ab AutoComp Ab MultiAutoC Ab CheckedTextView Ab TextInputLayout

Add to Design Favorite Android Documentation Shift+F1 Material Guidelines

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (15 minutes ago)

The new EditText will appear immediately below the title TextView

The screenshot shows the Android Studio interface with the 'activity\_main.xml' layout file open. The layout consists of a single red 'TextView' at the top with the text 'Convert Patient Weight'. Below it is a blue 'EditText' field. In the palette on the left, under the 'Text' category, the 'Ab Number' item is selected. A context menu is open over this item, with the 'Add to Design' option highlighted. A yellow callout box with a black border and a yellow arrow points from the text 'The new EditText will appear immediately below the title TextView' to the 'Add to Design' option. The right side of the screen shows the 'Attributes' panel for the 'titleTextView' element, listing various properties like id, text, and textColor.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

2: Favorites

Layout Captures

2: Structure

Component Tree

LinearLayout(vertical)

titleTextView- "@string/txtTitl..."

txtWeight(Number)

Common Text Buttons Widgets Layouts Containers Google Legacy

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

Pixel 28 Light Default (en-us) 32% Attributes

Change the text field's ID

txtWeight

Declared Attributes

Layout

layout\_width layout\_height layout\_weight visibility visibility

Common Attributes

inputType hint style singleLine selectAllOnFocus text text contentDescription

textAppearance

typeface textSize lineSpacingExtra textColor textStyle

All Attributes

alpha autoLink autoText background bufferType capitalize

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (15 minutes ago)

Event Log

Device File Explorer

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The main window displays the 'activity\_main.xml' layout file. The layout consists of a title bar with the text 'Convert Patient Weight' and a single text input field. A yellow callout box with the text 'Change the text field's ID' points to the text input field. The XML code for the layout is visible in the bottom half of the screen, showing the element `<EditText android:id="@+id/txtWeight" ...>`. The 'txtWeight' part of the ID is highlighted with a blue selection bar. The 'Attributes' panel on the right shows various properties for this EditText element, including `inputType="number"`, `style="@android:style/Widget"`, and `textColor="@android:color/primary_text"`.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTit..."
  - txtWeight(Number)

Design Text

Convert Patient Weight

Convert Patient Weight

Attributes

Ab txtWeight  
id txtWeight

Declared Attributes

Layout

layout\_width match\_parent  
layout\_height wrap\_content  
layout\_weight  
visibility  
✓ visibility

Common Attributes

inputType number  
hint  
style @android:style/Widget  
singleLine  
selectAllOnFocus  
text  
✓ text  
contentDescription  
textAppearance  
typeface  
textSize 18sp  
lineSpacingExtra  
textColor @android:color/primary\_text  
textStyle B I Tr

All Attributes

alpha  
autoLink  
autoText  
background  
bufferType  
capitalize

Use the Resource Manager to set the text field's hint

Gradle build finished in 5 s 71 ms (15 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Build Variants

2:Structure

Layout Captures

2:Favorites

Design Text

Attributes

Name: txtWeightHint

Default Weight of Patient

txtWeightHint Weight of Patient

1. Select the txtWeightHint string resource

2. Click OK

OK Cancel

Resources

Add new resource

Common Text Buttons Widgets Layouts Containers Google Legacy

Component Tree

- LinearLayout
  - titleTextView
  - txtWeight

EDIT TRANSLATIONS

32% 32%

Gradle

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Event Log

Gradle build finished in 5 s 71 ms (15 minutes ago)

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. In the center, the 'Resources' editor is displayed for the 'strings.xml' file. A yellow callout box with the text '1. Select the txtWeightHint string resource' has an arrow pointing to the 'txtWeightHint' entry in the list. Another yellow callout box with the text '2. Click OK' has an arrow pointing to the 'OK' button at the bottom right of the dialog. The 'txtWeight' attribute in the Attributes panel is highlighted with a blue selection bar. The 'txtWeight' attribute in the Attributes panel is highlighted with a blue selection bar.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project MedicalCalculator

Resource Manager

1:Project

app manifests java edu.udayton.medicalcalculator MainActivity edu.udayton.medicalcalculator (androidTest) edu.udayton.medicalcalculator (test)

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

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

Component Tree

LinearLayout(vertical) titleTextView- "@string/txtTit..." txtWeight(Number)

Convert Patient Weight

Convert Patient Weight

Weight of Patient

Use the Resource Manager to set the text field's text size

Event Log

Gradle build finished in 5 s 71 ms (16 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Build Variants

2:Structure

Layout Captures

2: Favorites

Design Text

Attributes

Ab txtWeight

id txtWeight

Declared Attributes

Layout

Common Attributes

textAppearance

textColor

All Attributes

txtWeight

Name: textFieldTextSize

Default 25sp

btnConvertTextSize 25sp

margin5dp 5dp

radBtnTextSize 20sp

textFieldTextSize 25sp

titleTextSize 36sp

topMargin15dp 15dp

txtResultTextSize 25sp

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

Component Tree

LinearLayout

Ab titleTextVi

Ab txtWeight

1. Select the textFieldTextSize dimension resource

2. Click OK

OK Cancel

32% 32%

Gradle

Device File Explorer

Event Log

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (16 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Attributes

Common Ab TextView  
Text Ab Plain Text  
Buttons Ab Password  
Widgets Ab Password (Numer...  
Layouts Ab E-mail  
Containers Ab Phone  
Google Ab Postal Address  
Legacy Ab Multiline Text  
Ab Time  
Ab Date  
Ab Number  
Ab Number (Signed)  
Ab Number (Decimal)  
Ab AutoCompleteTe...  
MultiAutoComple...  
CheckedTextView  
Ab TextInputLayout

Component Tree

LinearLayout(vertical)  
titleTextView- "@string/txtTitl..."  
txtWeight(Number)

Design Text

Convert Patient Weight

Weight of Patient

Expand the padding attribute group

txtWeight

numeric

onClick

overScrollMode

padding

password

phoneNumber

privateImeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollIX

scrollLY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela

scrollbarFadeDuratio

scrollbarSize

scrollbarStyle

scrollbarThumbHoriz

scrollbarThumbVerti

scrollbarTrackHorizo

scrollbarTrackVertica

scrollbars

selectAllOnFocus

shadowColor

shadowDx

shadowDy

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (16 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

generatedJava

res

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

Gradle Scripts

Build Variants

I: Structure

2: Favorites

Layout Captures

Design Text

Palette

Common

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

Component Tree

- LinearLayout(vertical)
  - Ab titleTextView- "@string/txtTitl..."
  - Ab txtWeight(Number)

Attributes

Ab txtWeight

EditText

numeric

onClick

overScrollMode

padding

[?, ?, ?, ?, ?]

padding

paddingLeft

paddingTop

paddingRight

paddingBottom

password

phoneNumber

privateImeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollIIX

scrollIY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela

300

scrollbarFadeDuratio

250

scrollbarSize

10dip

scrollbarStyle

scrollbarThumbHoriz

@android:drawable/scrollt

scrollbarThumbVerti

@android:drawable/scrollt

scrollbarTrackHorizo

@null

scrollbarTrackVertica

@null

Use the Resource Manager to set the top padding

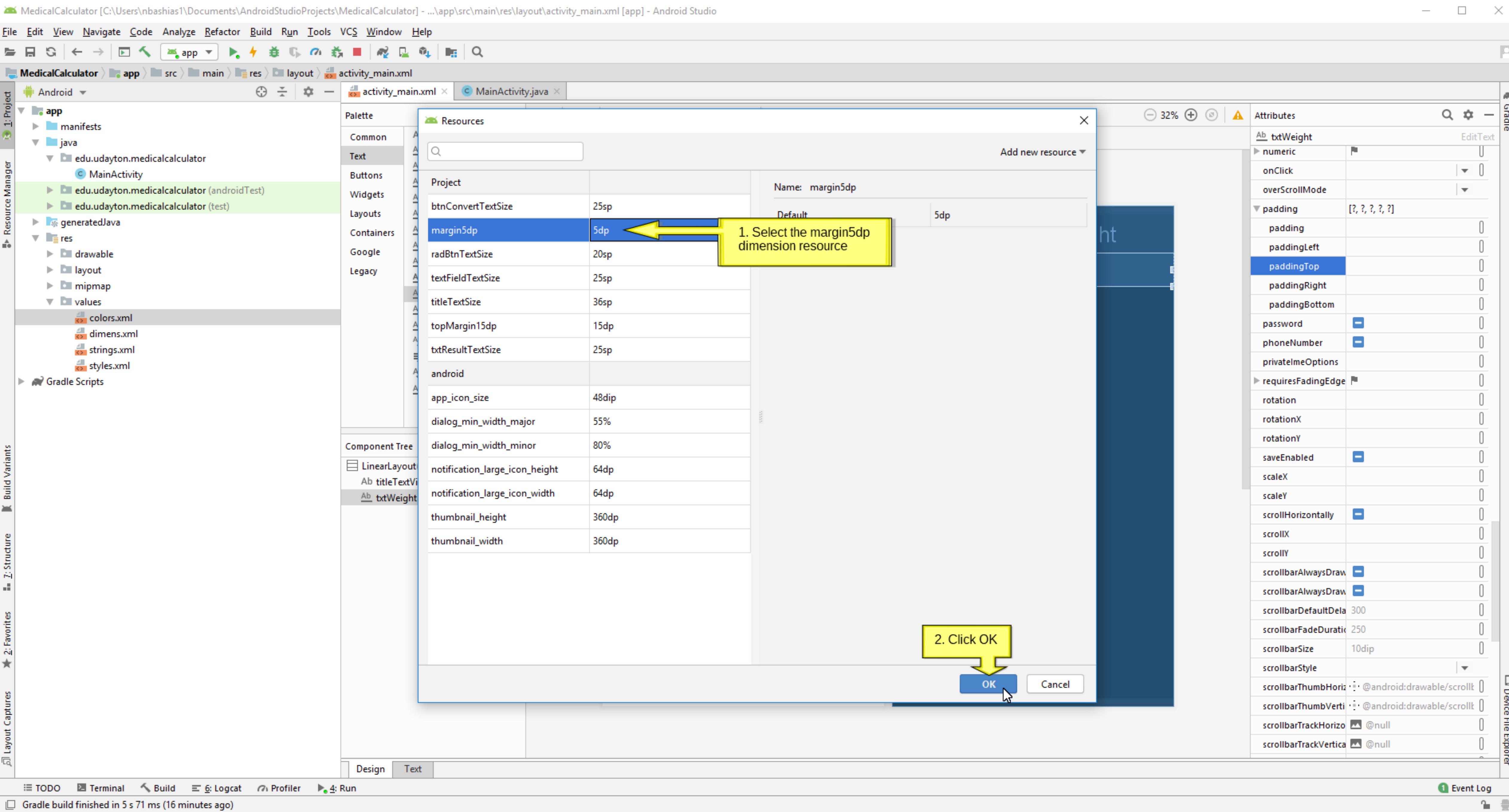
Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (16 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the 'activity\_main.xml' layout file open. The layout consists of a title bar with the text 'Convert Patient Weight' and a main content area. In the content area, there is a title 'Weight of Patient' and a text input field labeled 'txtWeight'. The 'Component Tree' panel shows a linear layout containing a title view and the text input field. The 'Attributes' panel on the right lists various properties for the text input field, including 'txtWeight' (set to 'EditText'), 'numeric' (checkbox checked), and 'padding' (set to '[?, ?, ?, ?, ?]'). A yellow callout box with the text 'Use the Resource Manager to set the top padding' points to the 'padding' section in the Attributes panel.



MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Attributes

Ab txtWeight  
► numeric  
► onClick  
► overScrollMode  
► padding  
► padding  
► paddingLeft  
► paddingTop @dimen/margin5dp  
► paddingRight  
► paddingBottom  
► password  
► phoneNumber  
► privateimeOptions  
► requiresFadingEdge  
► rotation  
► rotationX  
► rotationY  
► saveEnabled  
► scaleX  
► scaleY  
► scrollHorizontally  
► scrollIX  
► scrollIY  
► scrollbarAlwaysDraw  
► scrollbarAlwaysDraw  
► scrollbarDefaultDela 300  
► scrollbarFadeDuratio 250  
► scrollbarSize 10dip  
► scrollbarStyle  
► scrollbarThumbHoriz @android:drawable(scrollt)  
► scrollbarThumbVerti @android:drawable(scrollt)  
► scrollbarTrackHorizo @null  
► scrollbarTrackVertica @null

Use the Resource Manager to set the bottom padding

Common Text Buttons Widgets Layouts Containers Google Legacy

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

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..." Ab txtWeight(Number)

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (16 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The 'activity\_main.xml' layout is being edited in the design tab. The layout consists of a title bar with the text 'Convert Patient Weight' and a text input field below it labeled 'Weight of Patient'. In the attributes panel, a yellow callout box highlights the 'paddingTop' attribute, which is currently set to '@dimen/margin5dp'. A note in the callout box says 'Use the Resource Manager to set the bottom padding'. The project tree on the left shows files like MainActivity.java, colors.xml, dimens.xml, strings.xml, and styles.xml.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

generatedJava

res

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

Gradle Scripts

Build Variants

2: Favorites

Layout Captures

Component Tree

- LinearLayout
- Ab titleTextVi
- Ab txtWeight

Resources

Add new resource

Name: margin5dp

Default 5dp

Resource	Value
margin5dp	5dp
btnConvertTextSize	25sp
radBtnTextSize	20sp
textFieldTextSize	25sp
titleTextSize	36sp
topMargin15dp	15dp
txtResultTextSize	25sp
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

1. Select the margin5dp dimension resource

2. Click OK

OK Cancel

Attributes

- txtWeight
- numeric
- onClick
- overScrollMode
- padding
  - padding
  - paddingLeft
  - paddingTop @dimen/margin5dp
  - paddingRight
  - paddingBottom
- password
- phoneNumber
- privateImeOptions
- requiresFadingEdge
- rotation
- rotationX
- rotationY
- saveEnabled
- scaleX
- scaleY
- scrollHorizontally
- scrollIIX
- scrollY
- scrollbarAlwaysDraw
- scrollbarAlwaysDraw
- scrollbarDefaultDela 300
- scrollbarFadeDuratio 250
- scrollbarSize 10dip
- scrollbarStyle
- scrollbarThumbHoriz @android:drawable/scrol
- scrollbarThumbVerti @android:drawable/scrol
- scrollbarTrackHorizo @null
- scrollbarTrackVertica @null

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (16 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Attributes

Ab txtWeight  
numeric  
onClick  
overScrollMode  
padding  
paddingLeft  
paddingTop  
paddingRight  
paddingBottom  
password  
phoneNumber  
privateImeOptions  
requiresFadingEdge  
rotation  
rotationX  
rotationY  
saveEnabled  
scaleX  
scaleY  
scrollHorizontally  
scrollIX  
scrollLY  
scrollbarAlwaysDraw  
scrollbarAlwaysDraw  
scrollbarDefaultDela  
scrollbarFadeDuratio  
scrollbarSize  
scrollbarStyle  
scrollbarThumbHoriz  
scrollbarThumbVerti  
scrollbarTrackHorizo  
scrollbarTrackVertica

Design Text

Select the Buttons palette category

Time to add the RadioGroup and RadioButtons, so that the user can select whether they are converting from pounds to kilograms, or from kilograms to pounds.

RadioButton and RadioGroup controls are discussed on page 142 of Android Boot Camp.

Incidentally, the name "RadioButton" comes from the fact that the control is based on the same principle as the preset buttons on an automotive radio:

- once one button is selected, all others are unselected
- one button must be selected at any one time

Component Tree

LinearLayout(vertical)  
Ab titleTextView- "@string/txtTitl..."  
Ab txtWeight(Number)

Convert Patient Weight

Convert Patient Weight

Weight of Patient

Gradle build finished in 5 s 71 ms (17 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The main window displays the 'activity\_main.xml' layout. The layout consists of a title bar with the text 'Convert Patient Weight', a text input field below it labeled 'Weight of Patient', and a large blue background area. A yellow callout box highlights the 'Buttons' category in the palette, with the text 'Select the Buttons palette category'. Another yellow callout box contains instructions: 'Time to add the RadioGroup and RadioButtons, so that the user can select whether they are converting from pounds to kilograms, or from kilograms to pounds.' Below this, it says 'RadioButton and RadioGroup controls are discussed on page 142 of Android Boot Camp.' and 'Incidentally, the name "RadioButton" comes from the fact that the control is based on the same principle as the preset buttons on an automotive radio:' followed by two bullet points: '- once one button is selected, all others are unselected' and '- one button must be selected at any one time'. The palette also shows 'Common', 'Text', and 'Widgets' categories. The Component Tree shows a 'LinearLayout(vertical)' containing 'titleTextView' and 'txtWeight(Number)'. The Attributes panel lists properties like 'Ab txtWeight', 'numeric', 'onClick', 'overScrollMode', and 'padding'.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

Gradle

Attributes

Ab txtWeight  
► numeric  
► onClick  
► overScrollMode  
► padding  
► paddingLeft  
► paddingTop  
► paddingRight  
► paddingBottom  
► password  
► phoneNumber  
► privateImeOptions  
► requiresFadingEdge  
► rotation  
► rotationX  
► rotationY  
► saveEnabled  
► scaleX  
► scaleY  
► scrollHorizontally  
► scrollIX  
► scrollIY  
► scrollbarAlwaysDraw  
► scrollbarAlwaysDraw  
► scrollbarDefaultDela  
► scrollbarFadeDuratio  
► scrollbarSize  
► scrollbarStyle  
► scrollbarThumbHoriz  
► scrollbarThumbVerti  
► scrollbarTrackHorizo  
► scrollbarTrackVertica

EditText

Pixel 28 Light Default (en-us) 32% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

RadioGroup

Add a RadioGroup to the layout

Convert Patient Weight

Weight of Patient

Component Tree

LinearLayout(vertical)  
Ab titleTextView- "@string/txtTitl..."  
Ab txtWeight(Number)

Design Text

TODO Terminal Build Logcat Profiler Run Event Log

Gradle build finished in 5 s 71 ms (17 minutes ago)

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The main window displays the 'activity\_main.xml' layout. The layout consists of a title bar with the text 'Convert Patient Weight' and a text input field below it labeled 'Weight of Patient'. A yellow callout box with the text 'Add a RadioGroup to the layout' points to the 'RadioGroup' item in the 'Buttons' section of the palette. The palette also includes other items like 'Button', 'ImageButton', 'CheckBox', 'RadioButton', 'ToggleButton', 'Switch', and 'FloatingActionButton'. The component tree on the left shows a 'LinearLayout' containing a 'titleTextView' and 'txtWeight'. The right side of the screen shows the 'Attributes' panel for the selected 'txtWeight' view.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)

Design Text

Palette

- Common
- Text
- Buttons
  - Button
  - ImageButton
  - CheckBox
  - RadioGroup
  - RadioButton
  - ToggleButton
  - Switch
  - FloatingAction
- Widgets
- Layouts
- Containers
- Google
- Legacy

Attributes

- Ab txtWeight
- numeric
- onClick
- overScrollMode
- padding
  - padding
  - paddingLeft
  - paddingTop
  - paddingRight
  - paddingBottom
- password
- phoneNumber
- privateImeOptions
- requiresFadingEdge
- rotation
- rotationX
- rotationY
- saveEnabled
- scaleX
- scaleY
- scrollHorizontally
- scrollIIX
- scrollIY
- scrollbarAlwaysDraw
- scrollbarAlwaysDraw
- scrollbarDefaultDela
- scrollbarFadeDuratio
- scrollbarSize
- scrollbarStyle
- scrollbarThumbHoriz
- scrollbarThumbVerti
- scrollbarTrackHorizo
- scrollbarTrackVertica

The new empty RadioGroup will be placed immediately below the txtWeight EditText

Add to Design

Favorite

Android Documentation

Material Guidelines

Shift+F1

Gradle

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (17 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2: Favorites

1:Project

Android

app

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

Palette

Common

Text

Buttons

Widgets

- RadioGroup
- RadioButton

Layouts

Containers

Google

Legacy

Component Tree

LinearLayout(vertical)

- titleTextView- "@string/txtTitl..."
- txtWeight(Number)
- radGroup(horizontal)

Design Text

Set the RadioGroup ID

Default (en-us)

Attributes

radGroup

Declared Attributes

Layout

layout\_width match\_parent

layout\_height match\_parent

layout\_weight

visibility

visibility

Common Attributes

checkedButton

All Attributes

addStatesFromChild

alpha

alwaysDrawnWithCa

animateLayoutChani

animationCache

background

baselineAligned

baselineAlignedChil

checkedButton

clickable

clipChildren

clipToPadding

contentDescription

descendantFocusab

divider

dividerPadding

drawingCacheQualit

duplicateParentState

fadeScrollbars

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (17 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The main window displays the 'activity\_main.xml' layout. The layout consists of a title 'Convert Patient Weight', a text input field 'Weight of Patient', and a RadioGroup. A yellow callout box with the text 'Set the RadioGroup ID' points to the RadioGroup in the layout. The 'Attributes' panel on the right shows the 'radGroup' entry under 'Declared Attributes'. The 'Component Tree' panel shows the structure of the layout, including the RadioGroup. The 'Design' tab is selected at the bottom.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

Java

edu.udayton.medicalcalculator

MainActivity

edu.udayton.medicalcalculator (androidTest)

edu.udayton.medicalcalculator (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Layout Captures

1:Structure

Android

activity\_main.xml

MainActivity.java

Attributes

radGroup

id radGroup

Declared Attributes

Layout

layout\_width match\_parent

layout\_height match\_parent

layout\_weight

visibility visibility

Common Attributes

checkedButton

All Attributes

addStateList  
alpha  
always  
animationCache  
background  
baselineAligned  
baselineAlignedChild  
checkedButton  
clickable  
clipChildren  
clipToPadding  
contentDescription  
descendantFocusable  
divider  
dividerPadding  
drawingCacheQuality  
duplicateParentState  
fadeScrollbars

Component Tree

LinearLayout(vertical)

titleTextView- "@string/txtTitle..."

txtWeight(Number)

radGroup(horizontal)

Design Text

Convert Patient Weight

Weight of Patient

Click to show the menu of layout\_width attribute values

The RadioGroup can't take all of the remaining space in the layout, so we'll have to adjust its layout\_width and layout\_height attributes.

Device File Explorer

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Component Tree

Design Text

Gradle

Layout\_width match\_parent

Layout\_height match\_parent

Layout\_width wrap\_content

Convert Patient Weight

Weight of Patient

Change the layout\_width attribute value to 'wrap\_content'

Attributes

radGroup

id radGroup

Declared Attributes

Layout

layout\_width match\_parent

layout\_height match\_parent

layout\_width wrap\_content

visibility

visibility

Common Attributes

checkedButton

All Attributes

addStatesFromChild

alpha

alwaysDrawnWithCa

animateLayoutChani

animationCache

background

baselineAligned

baselineAlignedChil

checkedButton

clickable

clipChildren

clipToPadding

contentDescription

descendantFocusab

divider

dividerPadding

drawingCacheQualit

duplicateParentState

fadeScrollbars

Device File Explorer

Event Log

Gradle build finished in 5 s 71 ms (18 minutes ago)

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The main window displays the 'activity\_main.xml' layout file. The layout features a title bar with the text 'Convert Patient Weight' and a subtitle 'Weight of Patient'. Below the subtitle is a horizontal RadioGroup containing two radio buttons. A yellow callout box highlights the 'layout\_width' attribute in the attributes panel, which is currently set to 'match\_parent', and suggests changing it to 'wrap\_content'. The attributes panel also lists other attributes like 'id' (set to 'radGroup'), 'Declared Attributes', and various common attributes for the RadioGroup.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Component Tree

Design Text

Gradle

Layout

Convert Patient Weight

Weight of Patient

Attributes

radGroup

id radGroup

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height match\_parent

Click to show the menu of layout\_height attribute values

Common Text Buttons Widgets Layouts Containers Google Legacy

Pixel 28 Light Default (en-us)

32% 32% 32%

Project Structure

Build Variants

Favorites

Layout Captures

2: Favorites

1: Project

File

Gradle build finished in 5 s 71 ms (18 minutes ago)

Event Log

This screenshot shows the Android Studio interface for a project named "MedicalCalculator". The main window displays the "activity\_main.xml" layout file. The layout consists of a title bar with the text "Convert Patient Weight" and a subtitle "Weight of Patient". Below the title is a "LinearLayout" containing a "titleTextview" and a "txtWeight" input field. A "RadioGroup" component is also present in the layout tree. The "Attributes" panel on the right shows the "layout\_height" attribute set to "match\_parent". A yellow callout box with the text "Click to show the menu of layout\_height attribute values" points to the dropdown menu next to the current value. The "Component Tree" panel shows the structure of the layout components.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Component Tree

Design Text

Gradle Scripts

Build Variants

Favorites

Layout Captures

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

Android

app

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

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

activity\_main.xml

MainActivity.java

Default (en-us)

32%

Attributes

radGroup

id radGroup

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height match\_parent

layout\_weight match\_parent

visibility wrap\_content

visibility

Common Attributes

checkedButton

All Attributes

Component Tree

LinearLayout(vertical)

- titleTextView- "@string/txtTitl..."
- txtWeight(Number)
- radGroup(horizontal)

Convert Patient Weight

Weight of Patient

Change the layout\_height attribute value to 'wrap\_content'

Device File Explorer

Event Log

Gradle build finished in 5 s 71 ms (18 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2: Favorites

1: Project

Android

app

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

Resource Manager

activity\_main.xml

MainActivity.java

Attributes

32% 32%

Pixel 28 Light Default (en-us)

Common Text Buttons Widgets Layouts Containers Google Legacy

Component Tree

LinearLayout(vertical)

- titleTextView- "@string/txtTit..."
- txtWeight(Number)
- radGroup(horizontal)

Expand the padding attribute group

Convert Patient Weight

Weight of Patient

Convert Patient Weight

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

overScrollMode

persistenDrawingC

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollX

scrollY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela

scrollbarFadeDuratio

scrollbarSize

scrollbarStyle

scrollbarThumbHoriz

scrollbarThumbVerti

scrollbarTrackHorizo

scrollbarTrackVertica

scrollbars

showDividers

soundEffectsEnable

splitMotionEvents

style @android:style/Widget

tag

targetApi

theme

transformPivotX

transformPivotY

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (18 minutes ago)

Event Log

Device File Explorer

```
<RadioGroup android:padding="16dp" android:orientation="horizontal" android:id="@+id/radGroup">
```

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2: Favorites

3: TODO

4: Terminal

5: Build

6: Logcat

7: Profiler

8: Run

9: Event Log

Gradle

Android

app

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

Palette

activity\_main.xml

MainActivity.java

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 Light Default (en-us) 32% Attributes

Convert Patient Weight

Weight of Patient

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)

Use the Resource Manager to set the padding on all four sides of the radGroup

Attributes

- radGroup
  - orientation
  - overScrollMode
- padding
  - [?, ?, ?, ?]
  - padding
  - paddingLeft
  - paddingTop
  - paddingRight
  - paddingBottom
- persistentDrawingCache
- requiresFadingEdge
- rotation
- rotationX
- rotationY
- saveEnabled
- scaleX
- scaleY
- scrollX
- scrollY
- scrollbarAlwaysDraw
- scrollbarAlwaysDraw
- scrollbarDefaultDelay
- scrollbarFadeDuration
- scrollbarSize
- scrollbarStyle
- scrollbarThumbHorizontal
- scrollbarThumbVertical
- scrollbarTrackHorizontal
- scrollbarTrackVertical
- scrollbars
- showDividers
- soundEffectsEnabled
- splitMotionEvents
- style

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Build Variants

2:Structure

Layout Captures

2:Favorites

1:Project

Resources

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Project

Name: margin5dp

Add new resource

Dimension	Value
margin5dp	5dp
btnConvertTextSize	25sp
radBtnTextSize	20sp
textFieldTextSize	25sp
titleTextSize	36sp
topMargin15dp	15dp
txtResultTextSize	25sp
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

Component Tree

- LinearLayout
- Ab titleTextVi
- Ab txtWeight
- radGroup

1. Select the margin5dp dimension resource

2. Click OK

OK Cancel

Attributes

radGroup

orientation

overScrollMode

padding

paddingLeft

paddingTop

paddingRight

paddingBottom

persistentDrawingC

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollX

scrollY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela

scrollbarFadeDurati

scrollbarSize

scrollbarStyle

scrollbarThumbHoriz

scrollbarThumbVerti

scrollbarTrackHorizo

scrollbarTrackVertica

scrollbars

showDividers

soundEffectsEnable

splitMotionEvents

style

Device File Explorer

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (19 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

1:Project

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

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

RadioButton

We can now add our first RadioButton to the radGroup  
Click/drag the RadioButton from the palette ...

Patient Weight

Convert Patient Weight

Attributes

<unnamed>

orientation

overScrollMode

padding [?, ?, ?, ?]

persistentDrawingC

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollX

scrollY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela

scrollbarFadeDuratio

scrollbarSize

scrollbarStyle

scrollbarThumbHoriz

scrollbarThumbVerti

scrollbarTrackHorizo

scrollbarTrackVertica

scrollbars

showDividers

soundEffectsEnable

splitMotionEvents

style

tag

targetApi

theme

transformPivotX

transformPivotY

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (19 minutes ago)

Event Log

Device File Explorer

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Build Variants

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Convert Patient Weight

Weight of Patient

RadioButton

Since the new, empty radGroup is so small in the design pane, we can add the new RadioButton to the radGroup in the Component Tree (much easier this way!).

... to the radGroup in the Component Tree

Layout Captures

2: Favorites

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (19 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

Java

edu.udayton.medicalcalculator

MainActivity

edu.udayton.medicalcalculator (androidTest)

edu.udayton.medicalcalculator (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2: Favorites

Design Text

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 Light Default (en-us) 32% Attributes

Change the RadioButton's ID

RadioButton

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked

focusable true

clickable true

duplicateParentState

text RadioButton

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 16sp

lineSpacingExtra

textColor @android:color/primary\_i

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Ab txtWeight(Number)

radGroup(horizontal)

radLbsToKilos- "RadioButton"

Convert Patient Weight

Weight of Patient

RadioButton

Convert Patient Weight

RadioButton

Gradle build finished in 5 s 71 ms (20 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

1:Project

app manifests java edu.udayton.medicalcalculator MainActivity edu.udayton.medicalcalculator (androidTest) edu.udayton.medicalcalculator (test)

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Design Text

Activity Main XML

Common Text Buttons Widgets Layouts Containers Google Legacy

RadioButton ImageButton CheckBox RadioGroup RadioButton ToggleButton Switch FloatingActionButton

Default (en-us)

32% + Attributes

radLbsToKilos RadioButton id radLbsToKilos Declared Attributes Layout

layout\_width wrap\_content layout\_height wrap\_content layout\_weight 1 visibility visibility Common Attributes

style @android:style/Widget button @android:drawable/btn\_r checked focusable true clickable true duplicateParentState false text RadioButton text contentDescription textAppearance typeface textSize lineSpacingExtra textColor textStyle All Attributes alpha autoLink autoComplete background bufferType

Use the Resource Manager to set the radio button's text

Convert Patient Weight

Weight of Patient

RadioButton

Component Tree

LinearLayout(vertical) titleTextView- "@string/txtTitl..." txtWeight(Number) radGroup(horizontal) radLbsToKilos- "RadioButton"

Pixel 28 Light Default (en-us)

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (20 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

Android

app

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

Build Variants

2:Structure

Layout Captures

2: Favorites

Design Text

Resources

Add new resource

Name: txtRadLbsToKilos

Default Convert Pounds to Kilograms

txtRadLbsToKilos Convert Pounds to Kilograms

txtTitleText Convert Patient Weight

txtWeightHint Weight of Patient

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 foornommer)

Component Tree

- LinearLayout
- Ab titleTextVi
- Ab txtWeight
- radGroup
- radLbs

EDIT TRANSLATIONS

OK Cancel

Attributes

radLbsToKilos

id radLbsToKilos

Declared Attributes

Layout

- layout\_width wrap\_content
- layout\_height wrap\_content
- layout\_weight 1
- visibility
- visibility

Common Attributes

- style @android:style/Widget
- button @android:drawable/btn\_r
- checked
- focusable true
- clickable true
- duplicateParentState
- text RadioButton
- text
- contentDescription
- textAppearance @android:style/TextAp
- typeface
- textSize 16sp
- lineSpacingExtra
- textColor @android:color/primary\_i
- textStyle B I Tr

All Attributes

- alpha
- autoLink
- autoText
- background
- bufferType

32% 32%

1. Select the txtRadLbsToKilosText string resource

2. Click OK

OK

Cancel

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (20 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

2: Favorites

Layout Captures

2: Structure

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTit..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

RadioButton ImageButton CheckBox RadioGroup RadioButton ToggleButton Switch FloatingActionButton

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

Convert Patient Weight

Convert Pounds to Kilograms

Attributes

radLbsToKilos

id radLbsToKilos

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility

visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked

focuseable true

clickable true

duplicateParentState

text @string/txtRadLbsToKilos

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 16sp

lineSpacingExtra

textColor @android:color/primary

textStyle

All Attributes

alpha

autoLink

autoText

background

bufferType

Use the Resource Manager to set the radio button's text size

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (20 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Build Variants

2:Structure

Layout Captures

2: Favorites

Design Text

Resources

Add new resource

Name: radBtnTextSize

Default: 20sp

Project	
btnConvertTextSize	25sp
margin5dp	5dp
radBtnTextSize	20sp
textFieldTextSize	25sp
titleTextSize	36sp
topMargin15dp	15dp
txtResultTextSize	25sp
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

Component Tree

- LinearLayout
  - Ab titleTextVi
  - Ab txtWeight
  - radGroup
  - radLbs

1. Select the radBtnTextSize dimension resource

2. Click OK

OK Cancel

Attributes

radLbsToKilos

id radLbsToKilos

Declared Attributes

Layout

Common Attributes

text @string/txRadLbsToKilos

textColor @android:color/primary\_text

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (20 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Component Tree

Design Text

Gradle

Since we have established that one radio button in a group must always be selected, and that most conversions in the US are from pounds to kilograms, we'll set the checked property for this radio button so that it is selected when the app launches.

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

Convert Patient Weight

Convert Pounds to Kilograms

Attributes

radLbsToKilos

id radLbsToKilos

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility

visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked true

focusable

clickable

textSize

lineSpacingExtra

textColor @android:color/primary\_l

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

Pixel 28 Light Default (en-us) 32% 32% 32%

Java Android

app manifests java edu.udayton.medicalcalculator MainActivity edu.udayton.medicalcalculator (androidTest) edu.udayton.medicalcalculator (test)

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

Gradle Scripts

Build Variants

Structure

Favorites

Layout Captures

Device File Explorer

Event Log

Gradle build finished in 5 s 71 ms (21 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Using the same technique as for the 1st RadioButton, we add a second RadioButton, with:

`id: radKilosToLbs`

`text: @string/txtRadKilosToLbsText`

`text size: @dimen/radBtnTextSize`

Note: since the 1st RadioButton is set as pre-checked, we do NOT set the checked property for the second RadioButton.

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txTTitle..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/bxLbsToKilos..."

Design Text

Attributes

radLbsToKilos

id radLbsToKilos

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility

visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked true

focusable true

clickable true

duplicateParentState

text @string/txTTitle...

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize @dimen/radBtnTextSize

lineSpacingExtra

textColor @android:color/primary\_l

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (21 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

2: Favorites

Layout Captures

2: Structure

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/bx..."
    - radKilosToLbs- "RadioButton"

Design Text

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Default (en-us) 32% Attributes

Change the RadioButton's ID

RadioButton radKilosToLbs

Declared Attributes

Layout

layout\_width: wrap\_content  
layout\_height: wrap\_content  
layout\_weight: 1  
visibility: visibility  
visibility: visibility

Common Attributes

style: @android:style/Widget  
button: @android:drawable/btn\_r  
checked: checked  
focusable: true  
clickable: true  
duplicateParentState: false  
text: RadioButton  
text: text  
contentDescription: contentDescription  
textAppearance: @android:style/TextAp  
typeface: typeface  
textSize: 16sp  
lineSpacingExtra: lineSpacingExtra  
textColor: @android:color/primary\_t  
textStyle: B I Tr

All Attributes

alpha: alpha  
autoLink: autoLink  
autoText: autoText  
background: background  
bufferType: bufferType

Gradle

Device File Explorer

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

RadioButton

Convert Patient Weight

Gradle build finished in 5 s 71 ms (21 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2:Favorites

Component Tree

LinearLayout(vertical)

- titleTextView- "@string/txtTitl..."
- txtWeight(Number)
- radGroup(horizontal)
  - radLbsToKilos- "@string/bx..."
  - radKilosToLbs- "RadioButton"

Design Text

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

RadioButton

Convert Patient Weight

Attributes

radKilosToLbs RadioButton

id radKilosToLbs

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility

visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked

focusable true

clickable true

duplicateParentState

text RadioButton

text

contentDescription

textAppearance

typeface

textSize 16sp

lineSpacingExtra

textColor

textStyle

All Attributes

alpha

autoLink

autoText

background

bufferType

Use the Resource Manager to set the radio button's text

Gradle

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (21 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The main window displays the 'activity\_main.xml' layout. The layout consists of a title bar, a text input field, and a RadioGroup containing two radio buttons. The second radio button is selected. The 'Component Tree' on the left shows the structure of the layout. The 'Attributes' panel on the right shows various properties for the selected radio button, with a yellow callout box pointing to the 'text' attribute, which is currently set to 'RadioButton'. This indicates that the text for the radio button is being managed through the Resource Manager.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project Resource Manager

Android

app

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

Resource Manager

1:Project

Resources

Add new resource

Name: txtRadKilosToLbs

Default: Convert Kilograms to Pounds

txtRadKilosToLbs: Convert Kilograms to Pounds

txtRadLbsToKilos: Convert Pounds to Kilograms

txtTitleText: Convert Patient Weight

txtWeightHint: Weight of Patient

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 foornommer)

Component Tree

- LinearLayout
  - titleTextVi
  - txtWeight
  - radGroup
    - radLbs
    - radKilo

EDIT TRANSLATIONS

1. Select the radKiloToLbText string resource

2. Click OK

OK Cancel

Attributes

radKilosToLbs

id: radKilosToLbs

Declared Attributes

Layout

- layout\_width: wrap\_content
- layout\_height: wrap\_content
- layout\_weight: 1
- visibility
- visibility

Common Attributes

- style: @android:style/Widget
- button
- checked
- focusable: true
- clickable: true
- duplicateParentState
- text: RadioButton
- text
- contentDescription
- textAppearance: @android:style/TextAp
- typeface
- textSize: 16sp
- lineSpacingExtra
- textColor: @android:color/primary\_i
- textStyle: B I Tr

All Attributes

- alpha
- autoLink
- autoText
- background
- bufferType

Gradle

Device File Explorer

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (21 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/bx..."
    - radKilosToLbs- "@strin..."

activity\_main.xml

MainActivity.java

Pixel 28 Light Default (en-us) 32% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

RadioButton

ImageButton

CheckBox

RadioGroup

RadioButton

ToggleButton

Switch

FloatingActionButton

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

Convert Kilograms to Pounds

Convert Patient Weight

Convert Pounds to Kilograms

Convert Kilograms to Pounds

Attributes

radKilosToLbs

id radKilosToLbs

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility

visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked

focusable true

clickable true

duplicateParentState

text @string/txtRadKilosToLbs

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 16sp

lineSpacingExtra

textColor @android:color/primary

textStyle

All Attributes

alpha

autoLink

autoText

background

bufferType

Use the Resource Manager to set the radio button's text size

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (22 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

Gradle

Activity Main XML

MainActivity.java

Attributes

radKilosToLbs

id radKilosToLbs

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility

visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked

focusable true

clickable true

duplicateParentState

text @string/txtradKilosToLbs

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 16sp

lineSpacingExtra

textColor @android:color/primary\_

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

32% + A

Resources

Add new resource

Name: radBtnTextSize

Default 20sp

Project

btnConvertTextSize 25sp

margin5dp 5dp

radBtnTextSize 20sp

textFieldTextSize 25sp

titleTextSize 36sp

topMargin15dp 15dp

txtResultTextSize 25sp

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

Component Tree

LinearLayout

Ab titleTextVi

Ab txtWeight

radGroup

radLbs

radKilo

Design Text

1. Select the radBtnTextSize dimension resource

2. Click OK

OK Cancel

Gradle build finished in 5 s 71 ms (22 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

2: Favorites

Layout Captures

3: Structure

4: Favorites

Android

app

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

generatedJava

res

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

Gradle Scripts

Build Variants

Component Tree

LinearLayout(vertical)

- titleTextView- "@string/txtTitle"
- txtWeight(Number)
- radGroup(horizontal)
  - radLbsToKilos- "@string/txtRadLbsToKilos"
  - radKilosToLbs- "@string/txtRadKilosToLbs"

activity\_main.xml

MainActivity.java

Attributes

radKilosToLbs

- id radKilosToLbs
- Declared Attributes
- Layout
  - layout\_width wrap\_content
  - layout\_height wrap\_content
  - layout\_weight 1
  - visibility
  - visibility
- Common Attributes
  - style @android:style/Widget
  - button @android:drawable/btn\_r
  - checked
  - focusable true
  - clickable true
  - duplicateParentState
  - text @string/txtRadKilosToLbs
  - text
  - contentDescription
  - textAppearance @android:style/TextAp
  - typeface
  - textSize @dimen/radBtnTextSize
  - lineSpacingExtra
  - textColor @android:color/primary\_l
  - textStyle B I Tr
- All Attributes
  - alpha
  - autoLink
  - autoText
  - background
  - bufferType

Add the Button just below the radGroup; when tapped, this Button will perform and display the weight conversion. This Button's attributes are set as:

*id: btnConvert*

*text: @string/btnConvertText*

*text size: @dimen/btnConvertTextSize*

*top Padding: @dimen/margin5dp*

*bottom Padding: @dimen/margin5dp*

Convert Patient Weight

Convert Pounds to Kilograms  
Convert Kilograms to Pounds

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (22 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project MedicalCalculator

Resource Manager

1:Project

app manifests java edu.udayton.medicalcalculator MainActivity edu.udayton.medicalcalculator (androidTest) edu.udayton.medicalcalculator (test)

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Design Text

Pixel 28 Default (en-us) 32% Attributes

Common Button Add to Design Favorite ✓ RadioGroup RadioButton Material Guidelines

Text ImageButton CheckBox ToggleButton Switch FloatingActionButton

Buttons Layouts Containers Google Legacy

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/tx..."
    - radKilosToLbs- "@string/tx..."

This button will appear immediately below the radGroup radio button group

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms  
Convert Kilograms to Pounds

Convert Patient Weight

Convert Pounds to Kilograms  
Convert Kilograms to Pounds

Attributes

radKilosToLbs

id radKilosToLbs

Declared Attributes

Layout

layout\_width wrap\_content

layout\_height wrap\_content

layout\_weight 1

visibility

visibility

Common Attributes

style @android:style/Widget

button @android:drawable/btn\_r

checked

focusable true

clickable true

duplicateParentState

text @string/txtRadKilosToLbs

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize @dimen/radBtnTextSize

lineSpacingExtra

textColor @android:color/primary\_

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Gradle build finished in 5 s 71 ms (22 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

generatedJava

res

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

Gradle Scripts

Build Variants

2: Favorites

Layout Captures

activity\_main.xml

MainActivity.java

Attributes

txtConvert

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: 18sp

lineSpacingExtra:

textColor: @android:color/primary\_

textStyle: B I Tr

All Attributes

alpha:

autoLink:

autoText:

background: @android:drawable/btn\_c

bufferType:

capitalize:

clickable: true

contentDescription:

Pixel: 28 Light: Default (en-us) 32% 32% + - Attributes

Change the Button's ID

btnConvert

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/tx..."
    - radKilosToLbs- "@string/tx..."
    - btnConvert " @string/btnCon..."

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (22 minutes ago)

Event Log

The screenshot shows the Android Studio interface with the 'activity\_main.xml' layout file open. The layout consists of a title bar, an input field labeled 'Weight of Patient', and a radio group for conversion options ('Convert Pounds to Kilograms' or 'Convert Kilograms to Pounds'). A button at the bottom is selected. A yellow callout box highlights the button with the text 'Change the Button's ID'. The right side of the screen displays the button's attributes, including its current text value 'Button'. The component tree on the left shows the hierarchical structure of the layout components.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project MedicalCalculator

Resource Manager

1:Project

app manifests java edu.udayton.medicalcalculator MainActivity edu.udayton.medicalcalculator (androidTest) edu.udayton.medicalcalculator (test)

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Layouts Containers Google Legacy

Buttons

Common Text Widgets Layouts Containers Google Legacy

Pixel 28 Light Default (en-us) 32% Attributes

Activity\_main.xml MainActivity.java

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms Convert Kilograms to Pounds

Button

BUTTON

Component Tree

LinearLayout(vertical)  
Ab titleTextView- "@string/txtTitl..."  
Ab txtWeight(Number)  
radGroup(horizontal)  
radLbsToKilos- "@string/txt..."  
radKilosToLbs- "@string/txt..."  
btnConvert " @string/btnCon..."

Attributes

txtConvert Button  
id btnConvert

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  
typeface  
textSize 18sp  
lineSpacingExtra  
textColor @android:color/primary\_...  
textStyle B I Tr

All Attributes

alpha  
autoLink  
autoText  
background @android:drawable/btn\_c  
bufferType  
capitalize  
clickable true  
contentDescription

Design Text

Use the Resource Manager to set the button's text (label)

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (22 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

Android

app

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

Build Variants

Structure

Favorites

Layout Captures

1:Project

activity\_main.xml

MainActivity.java

Attributes

btnConvert

id

Declared Attributes

Layout

Common Attributes

Component Tree

Resources

Add new resource

Name: btnConvertText

Default Convert Weight

1. Select the btnConvertText string resource

2. Click OK

OK Cancel

EDIT TRANSLATIONS

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (23 minutes ago)

Event Log

This screenshot shows the Android Studio interface for a project named "MedicalCalculator". The main window displays the "activity\_main.xml" layout file. A context menu is open over a button labeled "Convert Weight" in the layout editor. The menu path "Select String Resource..." has been highlighted with a yellow arrow and a callout bubble containing the text "1. Select the btnConvertText string resource". Another yellow arrow points to the "OK" button at the bottom right of the menu with the text "2. Click OK". The "Resources" palette on the left shows the "strings.xml" file, and the "Attributes" panel on the right shows the properties for the selected button. The "Component Tree" panel shows the structure of the layout, including a "LinearLayout" containing a "titleTextVi", "txtWeight", "radGroup", and "btnConvert" button.

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

2: Favorites

Layout Captures

3: Structure

4: Favorites

5: Layout Captures

Android

app

manifests

java

edu.udayton.medicalcalculator

MainActivity

edu.udayton.medicalcalculator (androidTest)

edu.udayton.medicalcalculator (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Component Tree

LinearLayout(vertical)

titleTextView- "@string/txtTitl..."

txtWeight(Number)

radGroup(horizontal)

radLbsToKilos- "@string/txt..."

radKilosToLbs- "@string/txt..."

btnConvert

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

activity\_main.xml

MainActivity.java

Default (en-us)

32%

Attributes

btnConvert

id btnConvert

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/btnConvertText

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 18sp

lineSpacingExtra

textColor @android:color/primary

textStyle

All Attributes

alpha

autoLink

autoText

background @android:drawable/btn\_c

bufferType

capitalize

clickable true

contentDescription

Design Text

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Use the Resource Manager to set the button's text size

The screenshot shows the Android Studio interface with the 'MedicalCalculator' project open. The main window displays the 'activity\_main.xml' layout. On the left, the project structure is shown with the 'app' module selected. The 'values' folder under 'res' contains 'colors.xml', 'dimens.xml', 'strings.xml', and 'styles.xml'. The 'strings.xml' file is currently selected. The right side of the screen shows the layout editor with a 'Design' tab active. The layout consists of a title, a text input field, a radio group for unit conversion, and two buttons. The 'Convert Weight' button is selected. The 'Attributes' panel on the right shows various properties for the selected button, including its ID ('btnConvert'), style ('@android:style/Widget'), and text ('@string/btnConvertText'). A yellow callout box with the text 'Use the Resource Manager to set the button's text size' points to the 'text' attribute in the Attributes panel. The bottom navigation bar includes tabs for 'TODO', 'Terminal', 'Build', 'Logcat', 'Profiler', 'Run', 'Event Log', and 'Device File Explorer'.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Build Variants

2:Structure

Layout Captures

2:Favorites

Layout Captures

Design Text

Resources

Common Text Buttons Widgets Layouts Containers Google Legacy

Add new resource

Project

Name	Value
btnConvertTextSize	25sp
margin5dp	5dp
radBtnTextSize	20sp
textFieldTextSize	25sp
titleTextSize	36sp
topMargin15dp	15dp
txtResultTextSize	25sp
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

Component Tree

- LinearLayout
  - Ab titleTextVi
  - Ab txtWeight
  - radGroup
    - radLbs
    - radKilo
  - btnConvert

1. Select the btnConvertTextSize dimension resource

2. Click OK

OK Cancel

Attributes

btnConvert

id btnConvert

Declared Attributes

Layout

Common Attributes

textAppearance

typeface

textSize

lineSpacingExtra

textColor

textStyle

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable true

contentDescription

Device File Explorer

Event Log

Gradle

Gradle build finished in 5 s 71 ms (23 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Resource Manager

Gradle Scripts

Build Variants

Structure

Layout Captures

2: Favorites

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/tx..."
    - radKilosToLbs- "@string/tx..."
  - btnConvert- "@string/btnConv..."

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Common Button ImageButton CheckBox RadioGroup RadioButton ToggleButton Switch FloatingActionButton

Text Widgets Layouts Containers Google Legacy

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms (checked)

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Change the 'textAllCaps' property to false

btnConvert

scrollbarTrackVertical @null

scrollbars

selectAllOnFocus

shadowColor

shadowDx

shadowDy

shadowRadius

singleLine

soundEffectsEnabled

style @android:style/Widget

tag

targetApi

text @string/btnConvertText

textAllCaps false

textColor @android:color/primary\_t

textColorHighlight #6633b5e5

textColorHint #808080

textColorLink #ff33b5e5

textCursorDrawable @android:drawable/text\_cu

textIsSelectable

textScaleX

textSize @dimen/btnConvertTe

textStyle normal

theme

transformPivotX

transformPivotY

translationX

translationY

typeface

verticalScrollbarPosit

visibility

width

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Gradle build finished in 5 s 71 ms (23 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project MedicalCalculator

Resource Manager

1:Project

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

Palette

Common Button ImageButton CheckBox RadioGroup RadioButton ToggleButton Switch FloatingActionButton Buttons Widgets Layouts Containers Google Legacy

Default (en-us)

32% Attributes

btnConvert

numeric

onClick

overScrollMode

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

password

phoneNumber

privateImeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollIX

scrollLY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela

scrollbarFadeDuratio

scrollbarSize

scrollbarStyle

scrollbarThumbHoriz

scrollbarThumbVerti

scrollbarTrackHorizo

scrollbarTrackVertica

scrollbars

selectAllOnFocus

shadowColor

shadowDx

shadowDy

Design Text

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Expand the padding attribute group

Component Tree

LinearLayout(vertical)

Ab titleTextView- "@string/txtTitl..."

Ab txtWeight(Number)

radGroup(horizontal)

radLbsToKilos- "@string/txt..."

radKilosToLbs- "@string/txt..."

btnConvert- "@string/btnCon..."

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (24 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Build Variants

2:Structure

Layout Captures

2:Favorites

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/tx..."
    - radKilosToLbs- "@string/tx..."
  - btnConvert- "@string/btnCon..."

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Common Button ImageButton CheckBox RadioGroup RadioButton ToggleButton Switch FloatingActionButton

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms  
Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Attributes for btnConvert:

- numeric
- onClick
- overScrollMode
- padding
  - [?, ?, ?, ?, ?]
  - padding
  - paddingLeft
  - paddingTop
  - paddingRight
  - paddingBottom
- password
- phoneNumber
- privateImeOptions
- requiresFadingEdge
- rotation
- rotationX
- rotationY
- saveEnabled
- scaleX
- scaleY
- scrollHorizontally
- scrollIX
- scrollY
- scrollbarAlwaysDraw
- scrollbarAlwaysDraw
- scrollbarDefaultDela 300
- scrollbarFadeDuratio 250
- scrollbarSize 10dip
- scrollbarStyle
- scrollbarThumbHoriz @android:drawable/scrol...
- scrollbarThumbVerti @android:drawable/scrol...
- scrollbarTrackHorizo @null
- scrollbarTrackVertica @null

Use the Resource Manager to set the top padding

Device File Explorer

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Layout

Activity

Resources

Attributes

Gradle

Event Log

Design Text

Resources

Add new resource

Name: margin5dp

Default 5dp

Project	
btnConvertTextSize	25sp
margin5dp	5dp
radBtnTextSize	20sp
textFieldTextSize	25sp
titleTextSize	36sp
topMargin15dp	15dp
txtResultTextSize	25sp
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

Component Tree

- LinearLayout
  - Ab titleTextVi
  - Ab txtWeight
  - radGroup
    - radLbs
    - radKilo
  - btnConvert

1. Select the margin5dp dimension resource

2. Click OK

OK Cancel

Gradle build finished in 5 s 71 ms (24 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project MedicalCalculator

Resource Manager

1:Project

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

Palette

Common Button ImageButton CheckBox RadioGroup RadioButton ToggleButton Switch FloatingActionButton

Text Widgets Layouts Containers Google Legacy

Default (en-us)

32% Attributes

btnConvert

numeric

onClick

overScrollMode

padding

paddingTop @dimen/margin5dp

paddingRight

paddingBottom

password

phoneNumber

privateImeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollIX

scrollY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela 300

scrollbarFadeDuratio 250

scrollbarSize 10dip

scrollbarStyle

scrollbarThumbHoriz @android:drawable/scrol

scrollbarThumbVerti @android:drawable/scrol

scrollbarTrackHorizo @null

scrollbarTrackVertica @null

Gradle

Design Text

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms  
Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Use the Resource Manager to set the bottom padding

The screenshot shows the Android Studio interface for a project named "MedicalCalculator". The main window displays the "activity\_main.xml" layout file. The layout features a title bar with the text "Convert Patient Weight", a subtitle "Weight of Patient", and two radio buttons for conversion directions. Below these are two buttons: "Convert Weight" and "CONVERT WEIGHT". The "CONVERT WEIGHT" button is currently selected. The "Component Tree" panel on the left shows the structure of the layout, including a vertical LinearLayout containing a title TextView, a NumberEditText, and a RadioGroup with two radio buttons. The "btnConvert" button is also listed in the tree. The "Attributes" panel on the right shows various properties for the "btnConvert" button, with "paddingTop" set to "@dimen/margin5dp". A yellow callout box with the text "Use the Resource Manager to set the bottom padding" points to the "padding" section in the Attributes panel. The bottom status bar includes tabs for TODO, Terminal, Build, Logcat, Profiler, Run, and Event Log.

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

1:Structure

Layout

Attributes

32% + A

Resources

Add new resource

Name: margin5dp

Default 5dp

Project	
btnConvertTextSize	25sp
margin5dp	5dp
radBtnTextSize	20sp
textFieldTextSize	25sp
titleTextSize	36sp
topMargin15dp	15dp
txtResultTextSize	25sp
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

Component Tree

- LinearLayout
  - Ab titleTextVi
  - Ab txtWeight
  - radGroup
    - radLbs
    - radKilo
  - btnConvert

1. Select the margin5dp dimension resource

2. Click OK

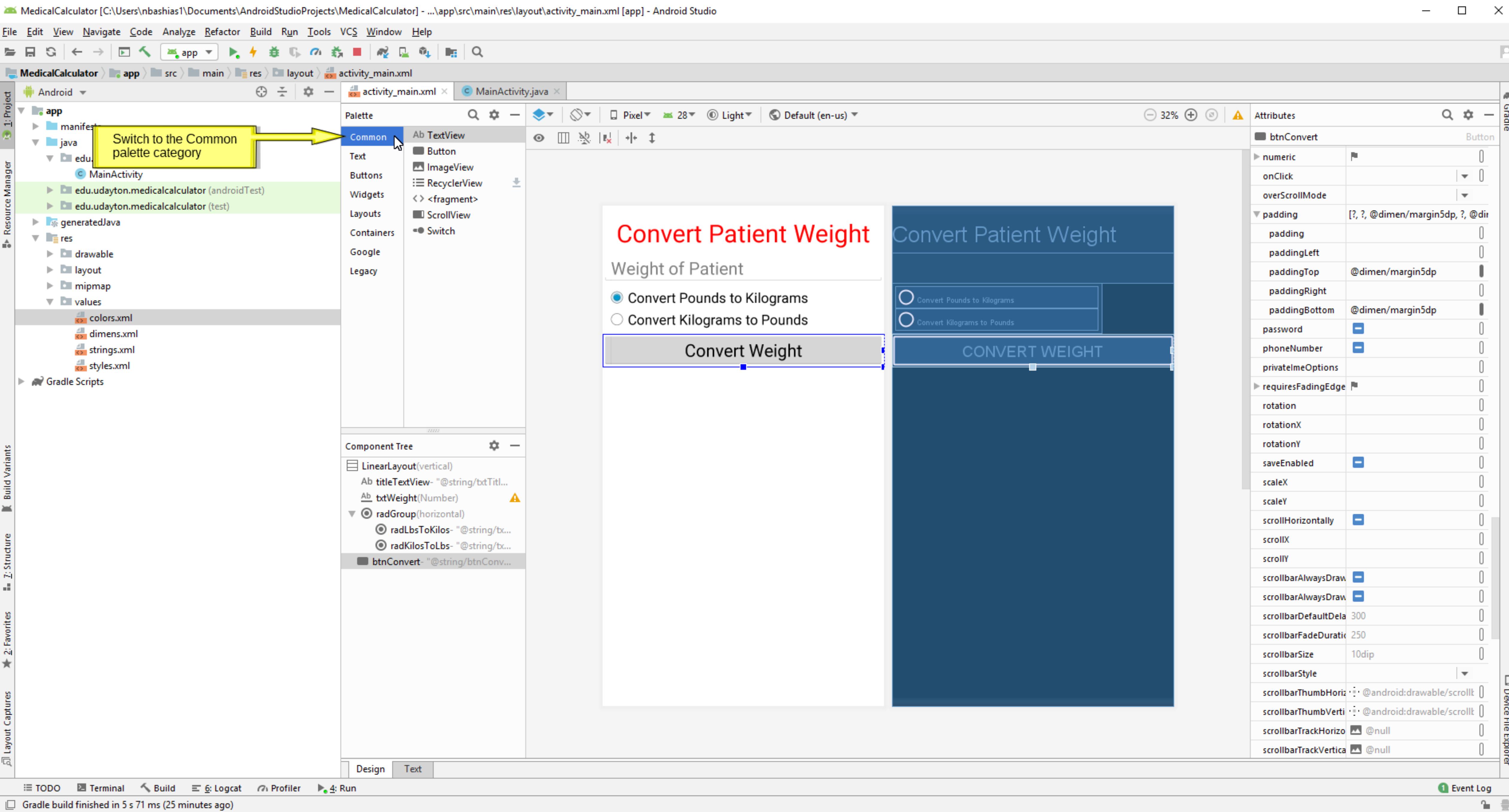
OK Cancel

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (24 minutes ago)

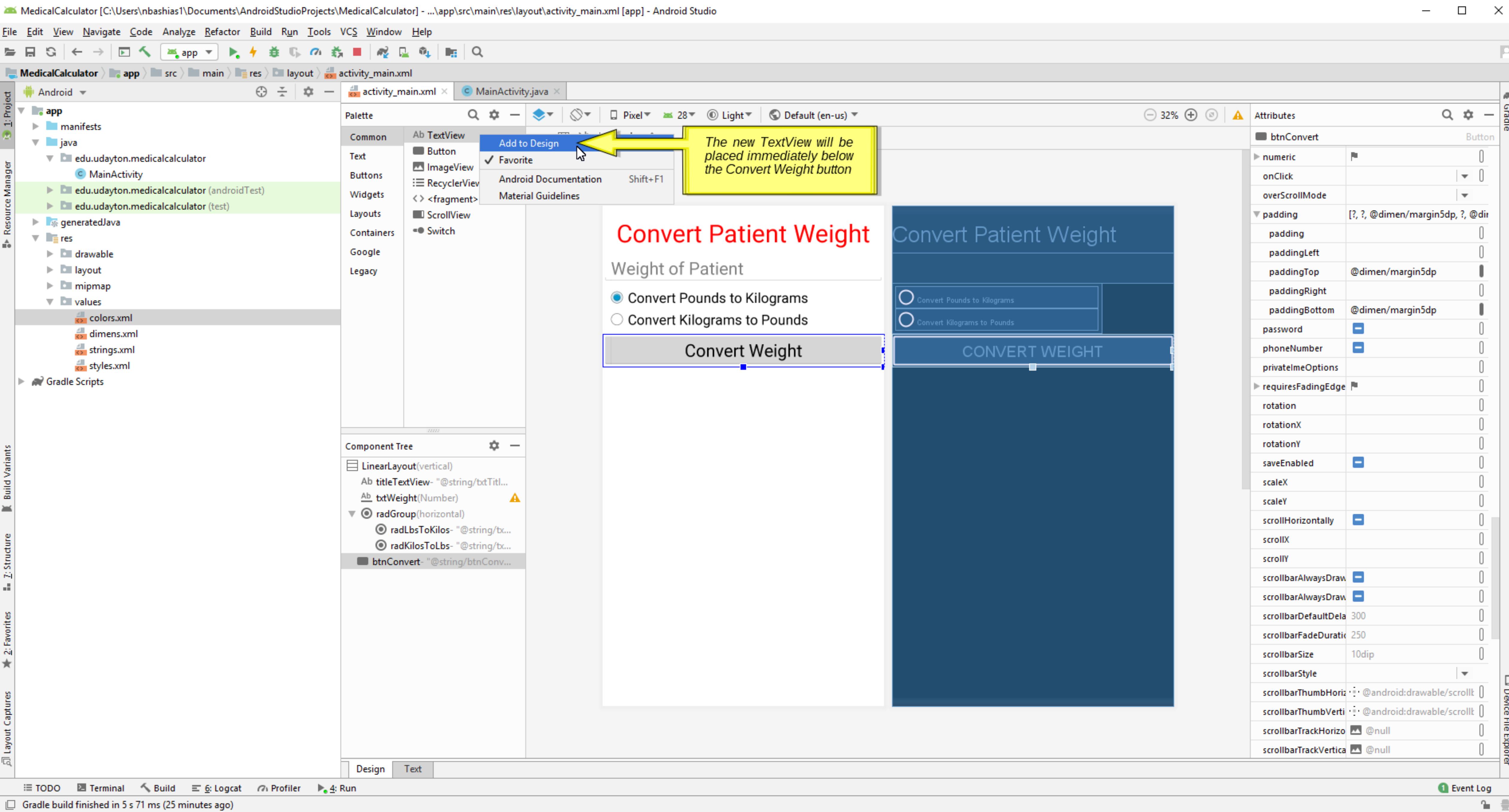
Event Log



Add the TextView for showing the conversion results. This TextView's attributes are set as:

*id: txtResult  
text: blank (nothing/empty string)  
text size: @dimen/txtResultTextSize  
text color: @color/trueRedColor  
top Padding: @dimen/margin5dp  
bottom Padding: @dimen/margin5dp*

The screenshot shows the Android Studio interface with the project 'MedicalCalculator' open. The 'activity\_main.xml' layout is being edited. In the palette on the left, 'Ab TextView' is selected. A yellow callout box contains instructions and attribute details for adding a TextView. The main preview area shows the layout with a title 'Convert Patient Weight', two radio buttons for 'Convert Pounds to Kilograms' and 'Convert Kilograms to Pounds', and two large buttons at the bottom labeled 'Convert Weight' and 'CONVERT WEIGHT'. The right side shows the 'Attributes' panel for the currently selected button.



MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Build Variants

2:Structure

Layout Captures

2:Favorites

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/tx..."
    - radKilosToLbs- "@string/tx..."
    - btnConvert- "@string/btnCon..."
  - txtResult- "TextView"

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Common Ab TextView Text Buttons Widgets Layouts Containers Google Legacy

Ab TextView

Change the TextView's ID

txtResult

Declared Attributes

Layout

layout\_width match\_parent

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text TextView

text

contentDescription

textAppearance @android:style/TextAp

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary

textStyle B I Tr

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Device File Explorer

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (25 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2: Favorites

1:Project

Android

app

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

Resource Manager

Gradle

Palette

Common Ab TextView

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

Pixel 28 Light Default (en-us) 32% Attributes

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms (checked)

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/tx..."
    - radKilosToLbs- "@string/tx..."
    - btnConvert- "@string/btnCon..."
  - txtResult- "TextView"

Design Text

Attributes

Ab txtResult TextView

id txtResult

Declared Attributes

Layout

- layout\_width match\_parent
- layout\_height wrap\_content
- layout\_weight
- visibility
- visibility

Common Attributes

- text TextView
- text
- contentDescription
- textColor @android:color/secondary\_text
- textStyle B I Tr

All Attributes

- alpha
- autoLink
- autoText
- background
- bufferType
- capitalize
- clickable
- contentDescription
- cursorVisible
- digits
- drawableBottom

Select and delete the TextView's text

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Gradle build finished in 5 s 71 ms (25 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Build Variants

Gradle Scripts

Component Tree

LinearLayout(vertical)

- titleTextView- "@string/txtTitl..."
- txtWeight(Number)
- radGroup(horizontal)
  - radLbsToKilos- "@string/tx..."
  - radKilosToLbs- "@string/tx..."
  - btnConvert- "@string/btnCon..."
- txtResult

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Ab TextView

Common Text Buttons Widgets Layouts Containers Google Legacy

Ab Button ImageView RecyclerView <fragment> ScrollView Switch

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms (checked)

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Ab txtResult

id txtResult

Declared Attributes

Layout

layout\_width match\_parent

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text

text

contentDescription

textAppearance

typeface

textSize 14sp

lineSpacingExtra

textColor @android:color/secondary\_text

textStyle

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

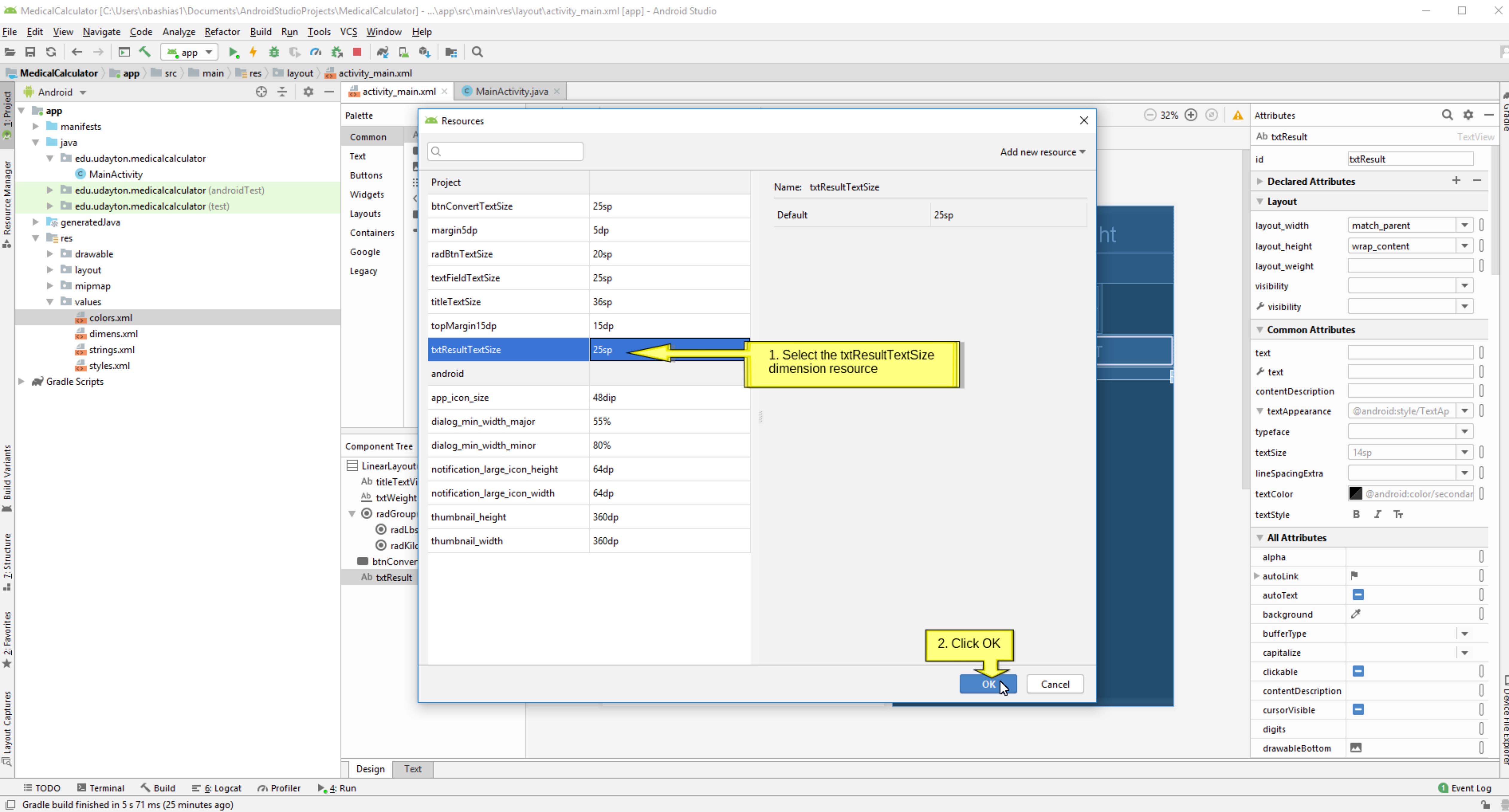
drawableBottom

Use the Resource Manager to set the TextView's text size

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Gradle build finished in 5 s 71 ms (25 minutes ago)



MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

2:Structure

Layout Captures

2:Favorites

Layout

Android

app

manifests

java

edu.udayton.medicalcalculator

MainActivity

edu.udayton.medicalcalculator (androidTest)

edu.udayton.medicalcalculator (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

Build Variants

Component Tree

LinearLayout(vertical)

titleTextView- "@string/txtTitl..."

txtWeight(Number)

radGroup(horizontal)

radLbsToKilos- "@string/tx..."

radKilosToLbs- "@string/tx..."

btnConvert- "@string/btnCon..."

txtResult

activity\_main.xml

MainActivity.java

Pixel 28 Light Default (en-us) 32% Attributes

Ab TextView

Common Text Buttons Widgets Layouts Containers Google Legacy

Button ImageView RecyclerView <fragment> ScrollView Switch

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms (checked)

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Ab txtResult

id txtResult

Declared Attributes

Layout

layout\_width match\_parent

layout\_height wrap\_content

layout\_weight

visibility

visibility

Common Attributes

text

text

contentDescription

textAppearance

typeface

textSize

lineSpacingExtra

textColor

textStyle

All Attributes

alpha

autoLink

autoText

background

bufferType

capitalize

clickable

contentDescription

cursorVisible

digits

drawableBottom

Use the Resource Manager to set the TextView's text color

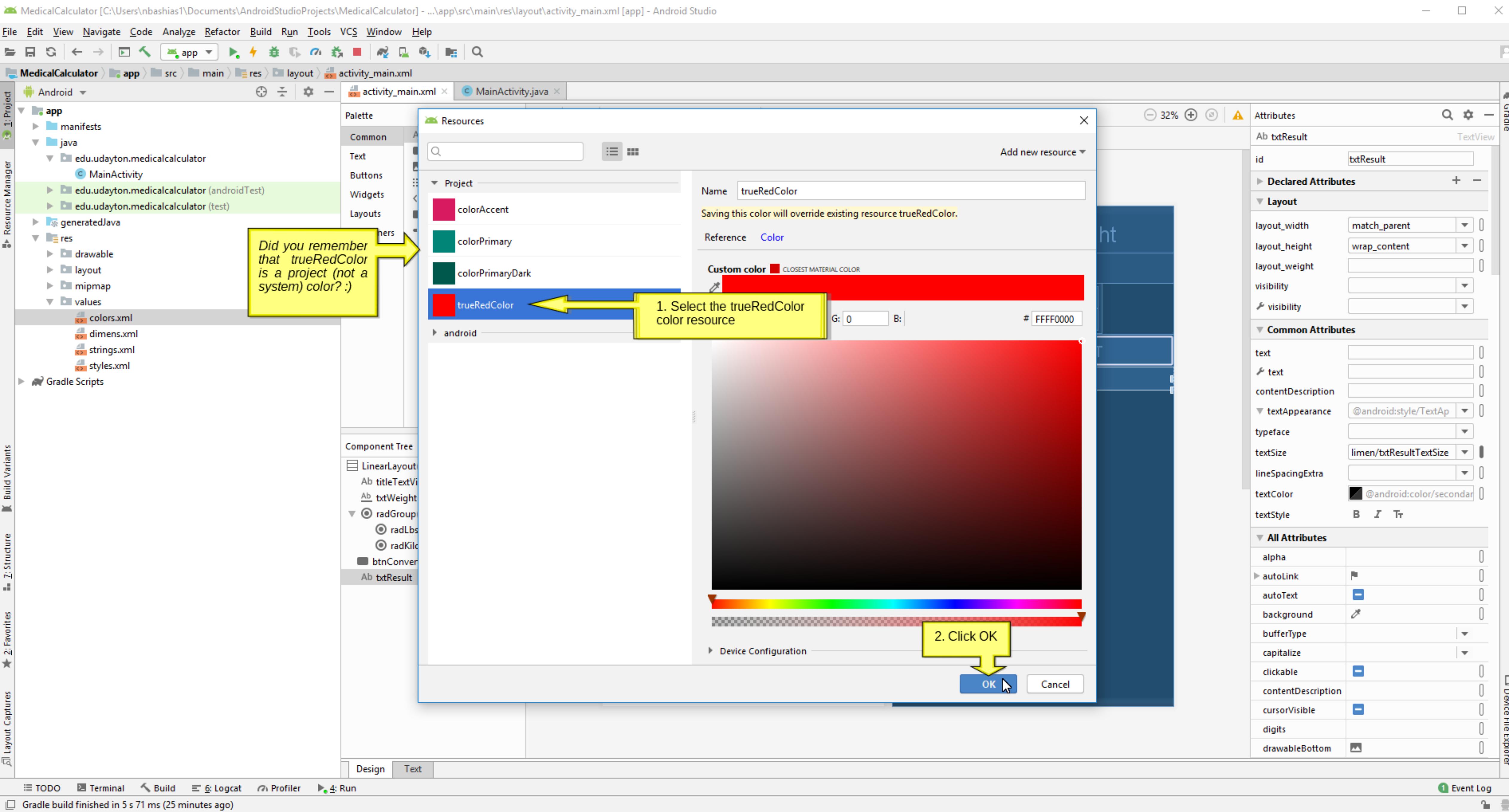
Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (25 minutes ago)

Event Log

This screenshot shows the Android Studio interface for a project named "MedicalCalculator". The main window displays the "activity\_main.xml" layout file. The layout features a title "Convert Patient Weight" in red, a subtitle "Weight of Patient", two radio buttons for conversion type, a "Convert Weight" button, and a "CONVERT WEIGHT" button. A text input field "txtResult" is highlighted with a blue selection bar. The "Component Tree" panel on the left shows the structure of the layout components. The "Attributes" panel on the right provides detailed settings for the selected "txtResult" view, including its ID, visibility, and various text and style properties. A yellow callout box with the text "Use the Resource Manager to set the TextView's text color" points to the "textColor" attribute in the Attributes panel.



MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

3:Captures

Android

app

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

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitle"
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/radLbsToKilos"
    - radKilosToLbs- "@string/radKilosToLbs"
  - btnConvert- "@string/btnConvert"
  - txtResult

activity\_main.xml

MainActivity.java

Pixel 28 Light Default (en-us) 32% Attributes

Ab TextView

Common Text Buttons Widgets Layouts Containers Google Legacy

Expand the padding attribute group

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Attributes

- Ab txtResult
- onClick
- overScrollMode
- padding [?, ?, ?, ?, ?]
- password
- phoneNumber
- privateImeOptions
- requiresFadingEdge
- rotation
- rotationX
- rotationY
- saveEnabled
- scaleX
- scaleY
- scrollHorizontally
- scrollI
- scrollY
- scrollbarAlwaysDraw
- scrollbarAlwaysDraw
- scrollbarDefaultDela
- scrollbarFadeDuratio
- scrollbarSize
- scrollbarStyle
- scrollbarThumbHoriz
- scrollbarThumbVerti
- scrollbarTrackHorizo
- scrollbarTrackVertica
- scrollbars
- selectAllOnFocus
- shadowColor
- shadowDx
- shadowDy
- shadowRadius

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 71 ms (26 minutes ago)

Event Log

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Gradle Scripts

Build Variants

I: Structure

2: Favorites

Layout Captures

activity\_main.xml

MainActivity.java

Palette

Common Ab TextView

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

Pixel 28 Light Default (en-us) 32% Attributes

Ab txtResult TextView

onClick overScrollMode

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

padding paddingLeft paddingTop paddingRight paddingBottom

password phoneNumber privateimeOptions

requiresFadingEdge rotation

rotationX rotationY

saveEnabled scaleX scaleY scrollHorizontally

scrollIX scrollIY scrollbarAlwaysDraw scrollbarDefaultDela 300

scrollbarFadeDuration 250 scrollbarSize 10dip scrollbarStyle

scrollbarThumbHorizontal @android:drawable(scrollbarThumbHorizontal) scrollbarThumbVertical @android:drawable(scrollbarThumbVertical)

scrollbarTrackHorizontal @null scrollbarTrackVertical @null scrollbars

Design Text

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms (checked)

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Component Tree

- LinearLayout(vertical)
  - titleTextView- "@string/txtTitl..."
  - txtWeight(Number)
  - radGroup(horizontal)
    - radLbsToKilos- "@string/tx..."
    - radKilosToLbs- "@string/tx..."
    - btnConvert- "@string/btnCon..."
  - txtResult

Use the Resource Manager to set the top padding

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Gradle build finished in 5 s 71 ms (26 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator > app > src > main > res > layout > activity\_main.xml

1:Project

Resource Manager

1:Project

app

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

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2:Favorites

Design Text

Attributes

Resources

Add new resource

Name: margin5dp

Default 5dp

margin5dp 5dp

btnConvertTextSize 25sp

radBtnTextSize 20sp

textFieldTextSize 25sp

titleTextSize 36sp

topMargin15dp 15dp

txtResultTextSize 25sp

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

Component Tree

- LinearLayout
  - Ab titleTextVi
  - Ab txtWeight
  - radGroup
    - radLbs
    - radKilo
  - btnConvert
  - Ab txtResult

1. Select the margin5dp dimension resource

2. Click OK

OK Cancel

32% 32%

Device File Explorer

Event Log

Gradle build finished in 5 s 71 ms (26 minutes ago)

MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src main res layout activity\_main.xml

1:Project

Resource Manager

Gradle

Android

app

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

Build Variants

2:Structure

Layout Captures

2:Favorites

Component Tree

LinearLayout(vertical)

- titleTextView- "@string/txtTit..."
- txtWeight(Number)
- radGroup(horizontal)
  - radLbsToKilos- "@string/tx..."
  - radKilosToLbs- "@string/tx..."
  - btnConvert- "@string/btnCon..."
- txtResult

Design Text

Pixel 28 Light Default (en-us) 32% Attributes

Ab txtResult TextView

onClick overScrollMode

padding [?, ?, @dimen/margin5dp, ?, ?]

padding paddingTop @dimen/margin5dp

paddingRight paddingBottom

password phoneNumber privateimeOptions

requiresFadingEdge rotation

rotationX rotationY

saveEnabled scaleX scaleY scrollHorizontally

scrollIX scrollIY scrollbarAlwaysDraw scrollbarDefaultDela

scrollbarFadeDuration scrollbarSize scrollbarStyle

scrollbarThumbHorizontal scrollbarThumbVertical scrollbarTrackHorizontal scrollbarTrackVertical scrollbars

Use the Resource Manager to set the bottom padding

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms (checked)

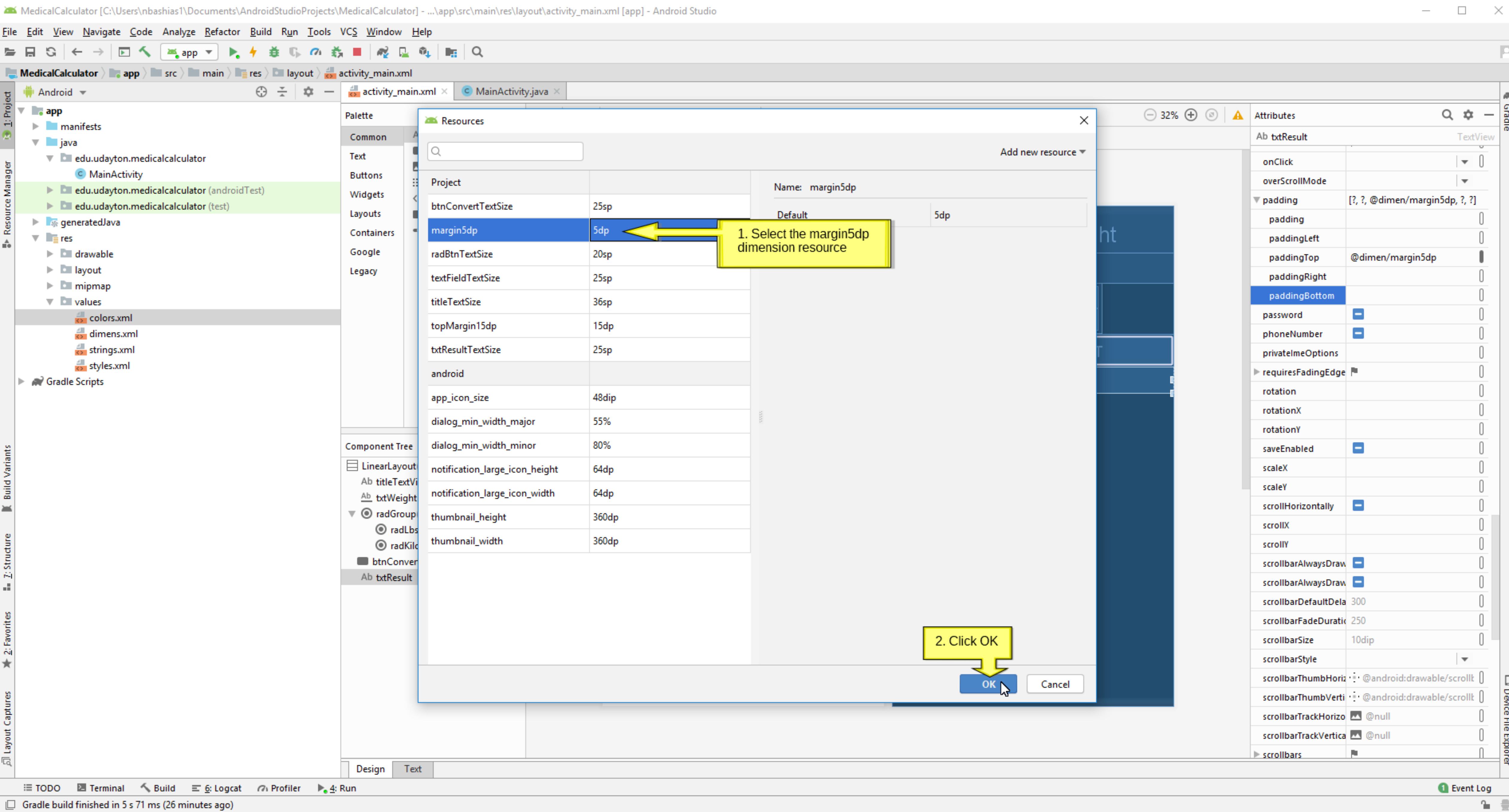
Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

Gradle build finished in 5 s 71 ms (26 minutes ago)

Event Log



MedicalCalculator [C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator] - ...app\src\main\res\layout\activity\_main.xml [app] - Android Studio

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

MedicalCalculator app src [app] C:\Users\nbashias1\Documents\AndroidStudioProjects\MedicalCalculator\app\src\main\java\edu\udayton\medicalcalculator>MainActivity.java

1:Project

Resource Manager

Gradle Scripts

Build Variants

2:Structure

Layout Captures

2: Favorites

Android

app

manifests

java

edu.udayton.medicalcalculator

MainActivity

edu.udayton.medicalcalculator (androidTest)

edu.udayton.medicalcalculator (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Component Tree

LinearLayout(vertical)

titleTextView- "@string/txtTitl..."

txtWeight(Number)

radGroup(horizontal)

radLbsToKilos- "@string/tx..."

radKilosToLbs- "@string/tx..."

btnConvert- "@string/btnCon..."

txtResult

Design Text

Palette

Common

Ab TextView

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Pixel 28 Light Default (en-us) 32% Attributes

Ab txtResult

onClick

overScrollMode

padding

paddingBottom @dimen/margin5dp

password

phoneNumber

privateimeOptions

requiresFadingEdge

rotation

rotationX

rotationY

saveEnabled

scaleX

scaleY

scrollHorizontally

scrollIIX

scrollIY

scrollbarAlwaysDraw

scrollbarAlwaysDraw

scrollbarDefaultDela 300

scrollbarFadeDuratio 250

scrollbarSize 10dip

scrollbarStyle

scrollbarThumbHoriz @android:drawable/scrol...

scrollbarThumbVerti @android:drawable/scrol...

scrollbarTrackHorizo @null

scrollbarTrackVertica @null

scrollbars

Device File Explorer

Convert Patient Weight

Weight of Patient

Convert Pounds to Kilograms

Convert Kilograms to Pounds

Convert Weight

CONVERT WEIGHT

This concludes Part 2 of Lesson 4.

In Part 3 of this lesson, we will add the app functionality to the MainActivity object class definition, and test the app using the emulator.

Gradle build finished in 5 s 71 ms (27 minutes ago)

Event Log