

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

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

SailingAdventures app src main res layout-xlarge activity_main.xml

1:Project SailingAdventures

Resource Manager

Android

app

- manifests
- AndroidManifest.xml
- java
- edu.udayton.sailingadventures
- MainActivity
- edu.udayton.sailingadventures (androidTest)
- edu.udayton.sailingadventures (test)

generatedJava

res

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

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

Design Text

Nexus_10_Pie 28 AppTheme Default (en-us) 25% Attributes

Palette

Common

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

Ab TextView

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

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

In Part 4 of this lesson, we used Android Studio's implementation of Responsive Design to easily develop and test an "extra large" layout for a 10-inch tablet.

In this last part of Lesson 6, we add yet another layout for a "large" device (i.e., a Nexus 7 tablet) and see responsive design in action again as we re-build and test the app using the emulator with the Nexus 7 system image we had created in Part 1 of this lesson.

No component selected.

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

Sailing Adventures - Kona, Hawaii

Sailing Adventures

SELECT THE DATE FOR A FULL-DAY SAILING TRIP

Emulator: Process finished with exit code 0 (6 minutes ago)

Event Log

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

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

SailingAdventures app src main res layout-xlarge activity_main.xml MainActivity.java

Android

1: Project SailingAdventures

app manifests AndroidManifest.xml

java edu.udayton.sailingadventures MainActivity

edu.udayton.sailingadventures (androidTest)

edu.udayton.sailingadventures (test)

generatedJava

res drawable layout mipmap values

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

Gradle Scripts

Resource Manager

Close. Alt-click to close others

We're done with the extra-large layout, so we can close it

Nexus_10_Pie 28 AppTheme Default (en-us) 25% Attributes

Common Text Buttons Widgets Layouts Containers Google Legacy

ScrollView Switch

Sailing Adventures - Kona, Hawaii

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Select the Date for a Full-Day Sailing Trip

No component selected.

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

Component Tree

- LinearLayout(horizontal)
 - sailboatImageView
- tblLayout
 - tblRow1
 - View
 - Ab titleTextView- "@string..."
 - tblRow2
 - View
 - Ab descTextView- "@str..."
 - tblRow3
 - View
 - btnDate- "@string/btn..."
 - tblRow4
 - View
 - Ab resTextView

Sailing Adventures - Kona, Hawaii

Sailing Adventures

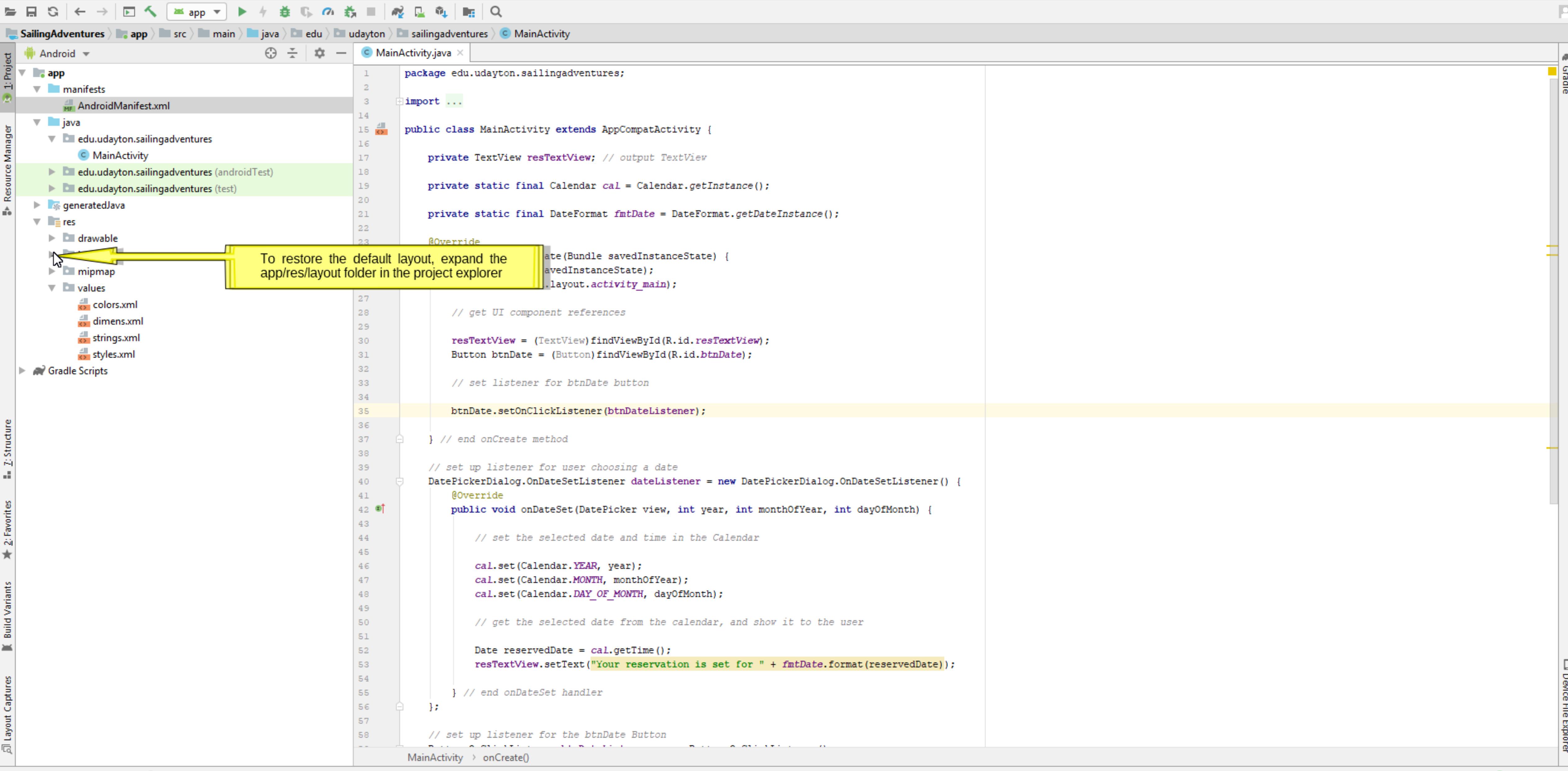
SELECT THE DATE FOR A FULL-DAY SAILING TRIP

Design Text

TODO Terminal Build Logcat Profiler Run

Emulator: Process finished with exit code 0 (6 minutes ago)

Event Log



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

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

SailingAdventures app src main res layout activity_main.xml

1:Project 2:Gradle

Resource Manager

1:Project

app

- manifests
- AndroidManifest.xml
- java

 - edu.udayton.sailingadventures
 - MainActivity

- generatedJava
- res

 - drawable
 - layout

 - activity_main (2)
 - activity_main.xml
 - activity_main.xml (xlarge)

- mipmap
- values

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

Gradle Scripts

2:Structure

2:Favorites

Build Variants

Layout Captures

MainActivity.java

```
package edu.udayton.sailingadventures;  
import ...  
public class MainActivity extends AppCompatActivity {  
    private TextView resTextView; // output TextView  
    private static final Calendar cal = Calendar.getInstance();  
    private static final DateFormat fmtDate = DateFormat.getDateInstance();  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        // get UI component references  
        resTextView = (TextView) findViewById(R.id.resTextView);  
        Button btnDate = (Button) findViewById(R.id.btnDate);  
        // set listener for btnDate button  
        btnDate.setOnClickListener(btnDateListener);  
    } // end onCreate method  
  
    // set up listener for user choosing a date  
    DatePickerDialog.OnDateSetListener dateListener = new DatePickerDialog.OnDateSetListener() {  
        @Override  
        public void onDateSet(DatePicker view, int year, int monthOfYear, int dayOfMonth) {  
            // set the selected date and time in the Calendar  
            cal.set(Calendar.YEAR, year);  
            cal.set(Calendar.MONTH, monthOfYear);  
            cal.set(Calendar.DAY_OF_MONTH, dayOfMonth);  
            // get the selected date from the calendar, and show it to the user  
            Date reservedDate = cal.getTime();  
            resTextView.setText("Your reservation is set for " + fmtDate.format(reservedDate));  
        } // end onDateSet handler  
    };  
    // set up listener for the btnDate Button  
    Button.OnClickListener btnDateListener = new Button.OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            DatePickerDialog dialog = new DatePickerDialog(MainActivity.this, dateListener, cal.get(Calendar.YEAR), cal.get(Calendar.MONTH), cal.get(Calendar.DAY_OF_MONTH));  
            dialog.show();  
        }  
    };  
}
```

MainActivity > onCreate()

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (6 minutes ago) 35:53 CRLF UTF-8 4 spaces

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

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

SailingAdventures app src main res values dimens.xml

1:Project SailingAdventures

Resource Manager

2:Structure

3:Favorites

Build Variants

Layout Captures

Device File Explorer

Android

app

- manifests
- java
 - edu.udayton.sailingadventures
 - MainActivity
- generatedJava
- res
 - drawable
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 - activity_main (2)
 - activity_main.xml
 - activity_main.xml (xlarge)
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Since we're adding a layout for a different-sized family of devices, let's first add the dimension resources for that layout

Palette

Common

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

Nexus_5_Pie 28 AppTheme Default (en-us) 28% Attributes

activity_main.xml

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

No component selected.

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

Design Text

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (6 minutes ago)

The screenshot shows the Android Studio interface for a project named "SailingAdventures". The project structure on the left includes files like `AndroidManifest.xml`, `MainActivity.java`, and various resource files under `res`. A yellow callout box points to the `dimens.xml` file in the `values` directory, containing the text: "Since we're adding a layout for a different-sized family of devices, let's first add the dimension resources for that layout". Below the callout is a detailed component tree for the `activity_main.xml` layout, showing a `LinearLayout` with several `TableLayout` and `TableRow` components, each containing `TextView` and `Button` elements. The main design preview shows a title bar with "Sailing Adventures - Kona, Hawaii" and a body section with a sailboat image and a button labeled "Select the Date for a Full-Day Sailing Trip". The preview is set to a Nexus_5_Pie device with API level 28. The bottom navigation bar includes tabs for "Design" and "Text", along with standard Android Studio navigation icons.

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

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

SailingAdventures app src main res values dimens.xml

1:Project SailingAdventures

Resource Manager

2:Structure

3:Favorites

Build Variants

Layout Captures

Open the dimens.xml file

Android

app

- manifests
- java
 - edu.udayton.sailingadventures
 - MainActivity
- generatedJava
- res
 - drawable
 - layout
 - activity_main (2)
 - activity_main.xml
 - activity_main.xml (xlarge)
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml
- Gradle Scripts

Palette

Common

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

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

MainActivity.java

activity_main.xml

Nexus_5_Pie 28 AppTheme Default (en-us) 28% Attributes

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

Component Tree

- LinearLayout(horizontal)
 - sailboatImageview
- tblLayout
 - tblRow1
 - View
 - Ab titleTextView- "@string..."
 - tblRow2
 - View
 - Ab descTextView- "@str..."
 - tblRow3
 - View
 - btnDate- "@string/btn..."
 - tblRow4
 - View
 - Ab resTextView

No component selected.

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

Design Text

TODO Terminal Build Logcat Profiler Run

Emulator: Process finished with exit code 0 (6 minutes ago)

Event Log



Android

1: Project

Resource Manager

2: Favorites

Build Variants

Layout Captures

1: Structure

2: Favorites

Build Scripts

Gradle

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

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

MainActivity.java activity_main.xml dimens.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="stdSailWidth">99dp</dimen>
    <dimen name="stdSailHeight">295dp</dimen>
    <dimen name="stdViewHeight">27dp</dimen>
    <dimen name="stdTitleTextSize">23sp</dimen>
    <dimen name="stdTitlePadding">15dp</dimen>
    <dimen name="stdDescTextSize">14sp</dimen>
    <dimen name="stdDescPadding">9dp</dimen>
    <dimen name="stdBtnTextSize">16sp</dimen>
    <dimen name="stdBtnPadding">9dp</dimen>
    <dimen name="stdResTextSize">16sp</dimen>
    <dimen name="stdResPadding">9dp</dimen>
    <dimen name="xlrqSailWidth">200dp</dimen>
    <dimen name="xlrqSailHeight">656dp</dimen>
    <dimen name="xlrqViewHeight">60dp</dimen>
    <dimen name="xlrqTitleTextSize">50sp</dimen>
    <dimen name="xlrqTitlePadding">50dp</dimen>
    <dimen name="xlrqDescTextSize">30sp</dimen>
    <dimen name="xlrqDescPadding">20dp</dimen>
    <dimen name="xlrqBtnTextSize">30sp</dimen>
    <dimen name="xlrqBtnPadding">20dp</dimen>
    <dimen name="xlrqResTextSize">36sp</dimen>
    <dimen name="xlrqResPadding">20dp</dimen>
</resources>
```

Add 2 new lines after the last dimen tag ...

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

SailingAdventures app src main res values dimens.xml

1: Project 1: Resource Manager 1: Favorites 1: Build Variants 1: Layout Captures 1: TODO 1: Terminal 1: Build 1: Logcat 1: Profiler 1: Run 1: Event Log

Emulator: Process finished with exit code 0 (8 minutes ago) 37:45 CRLF UTF-8 4 spaces

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="stdSailWidth">99dp</dimen>
    <dimen name="stdSailHeight">295dp</dimen>
    <dimen name="stdViewHeight">27dp</dimen>
    <dimen name="stdTitleTextSize">23sp</dimen>
    <dimen name="stdTitlePadding">15dp</dimen>
    <dimen name="stdDescTextSize">14sp</dimen>
    <dimen name="stdDescPadding">9dp</dimen>
    <dimen name="stdBtnTextSize">16sp</dimen>
    <dimen name="stdBtnPadding">9dp</dimen>
    <dimen name="stdResTextSize">16sp</dimen>
    <dimen name="stdResPadding">9dp</dimen>

    <dimen name="xlrqSailWidth">200dp</dimen>
    <dimen name="xlrqSailHeight">656dp</dimen>
    <dimen name="xlrqViewHeight">60dp</dimen>
    <dimen name="xlrqTitleTextSize">50sp</dimen>
    <dimen name="xlrqTitlePadding">50dp</dimen>
    <dimen name="xlrqDescTextSize">30sp</dimen>
    <dimen name="xlrqDescPadding">20dp</dimen>
    <dimen name="xlrqBtnTextSize">30sp</dimen>
    <dimen name="xlrqBtnPadding">20dp</dimen>
    <dimen name="xlrqResTextSize">36sp</dimen>
    <dimen name="xlrqResPadding">20dp</dimen>

    <dimen name="lrgSailWidth">135dp</dimen>
    <dimen name="lrgSailHeight">442dp</dimen>
    <dimen name="lrgViewHeight">41dp</dimen>
    <dimen name="lrgTitleTextSize">34sp</dimen>
    <dimen name="lrgTitlePadding">34dp</dimen>
    <dimen name="lrgDescTextSize">20sp</dimen>
    <dimen name="lrgDescPadding">14dp</dimen>
    <dimen name="lrgBtnTextSize">20sp</dimen>
    <dimen name="lrgBtnPadding">14dp</dimen>
    <dimen name="lrgResTextSize">24sp</dimen>
    <dimen name="lrgResPadding">14dp</dimen>

```

... and add this set of dimension resources with the 'lrg' prefix so that (yep, you guessed it) we can just do a find-and-replace once we create the large-size layout

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

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

SailingAdventures app src main res values dimens.xml

Close. Alt-click to close others

Close dimens.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="stdSailWidth">99dp</dimen>
    <dimen name="stdSailHeight">29dp</dimen>
    <dimen name="stdViewHeight">27dp</dimen>
    <dimen name="stdTitleTextSize">23sp</dimen>
    <dimen name="stdTitlePadding">15dp</dimen>
    <dimen name="stdDescTextSize">14sp</dimen>
    <dimen name="stdDescPadding">9dp</dimen>
    <dimen name="stdBtnTextSize">16sp</dimen>
    <dimen name="stdBtnPadding">9dp</dimen>
    <dimen name="stdResTextSize">16sp</dimen>
    <dimen name="stdResPadding">9dp</dimen>

    <dimen name="xlrqSailWidth">200dp</dimen>
    <dimen name="xlrqSailHeight">656dp</dimen>
    <dimen name="xlrqViewHeight">60dp</dimen>
    <dimen name="xlrqTitleTextSize">50sp</dimen>
    <dimen name="xlrqTitlePadding">50dp</dimen>
    <dimen name="xlrqDescTextSize">30sp</dimen>
    <dimen name="xlrqDescPadding">20dp</dimen>
    <dimen name="xlrqBtnTextSize">30sp</dimen>
    <dimen name="xlrqBtnPadding">20dp</dimen>
    <dimen name="xlrqResTextSize">36sp</dimen>
    <dimen name="xlrqResPadding">20dp</dimen>

    <dimen name="lrgSailWidth">135dp</dimen>
    <dimen name="lrgSailHeight">442dp</dimen>
    <dimen name="lrgViewHeight">41dp</dimen>
    <dimen name="lrgTitleTextSize">34sp</dimen>
    <dimen name="lrgTitlePadding">34dp</dimen>
    <dimen name="lrgDescTextSize">20sp</dimen>
    <dimen name="lrgDescPadding">14dp</dimen>
    <dimen name="lrgBtnTextSize">20sp</dimen>
    <dimen name="lrgBtnPadding">14dp</dimen>
    <dimen name="lrgResTextSize">24sp</dimen>
    <dimen name="lrgResPadding">14dp</dimen>

```

resources

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

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (8 minutes ago) 37:45 CRLF UTF-8 4 spaces

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

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

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

1:Project

Resource Manager

2:Structure

3:Favorites

Build Variants

Layout Captures

Orientation for Preview (O)

Android

app

- manifests
 - AndroidManifest.xml
- java
 - edu.udayton.sailingadventures
 - MainActivity
- generatedJava
- res
 - drawable
 - layout
 - activity_main (2)
 - activity_main.xml
 - activity_main.xml (xlarge)
 - mipmap
 - values
 - colors.xml
 - dimens.xml
 - strings.xml
 - styles.xml

Gradle Scripts

Component Tree

LinearLayout(horizontal)

- sailboatImageView

tblLayout

- tblRow1
 - View
 - Ab titleTextView- "@string..."
- tblRow2
 - View
 - Ab descTextView- "@str..."
- tblRow3
 - View
 - btnDate- "@string/btn..."
- tblRow4
 - View
 - Ab resTextView

Orientation for Preview (O)

As in part 4, to clone the default layout for a different-sized device, click to open the orientation menu

28% Attributes

Sailing Adventures - Kona, Hawaii

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Select the Date for a Full-Day Sailing Trip

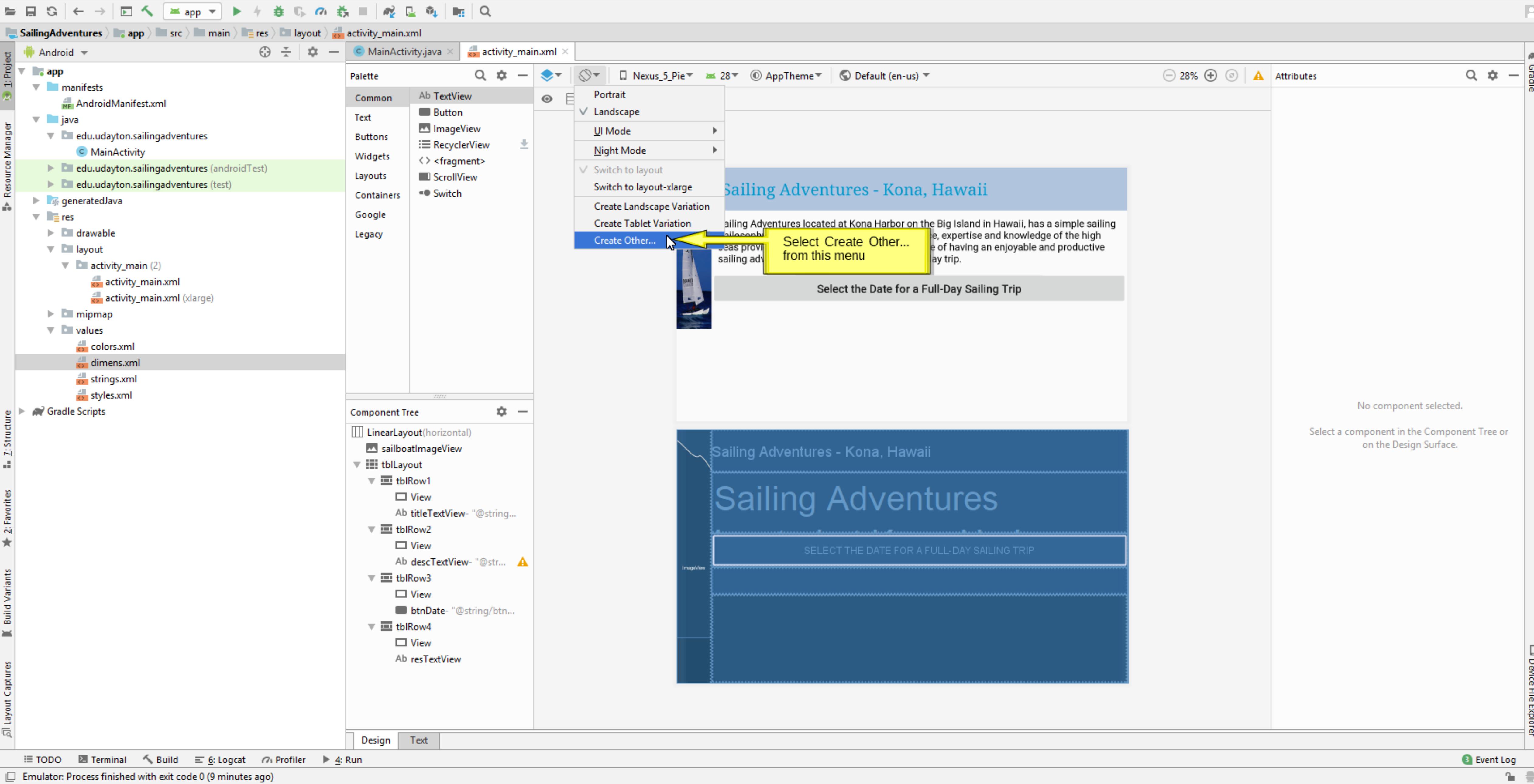
No component selected.

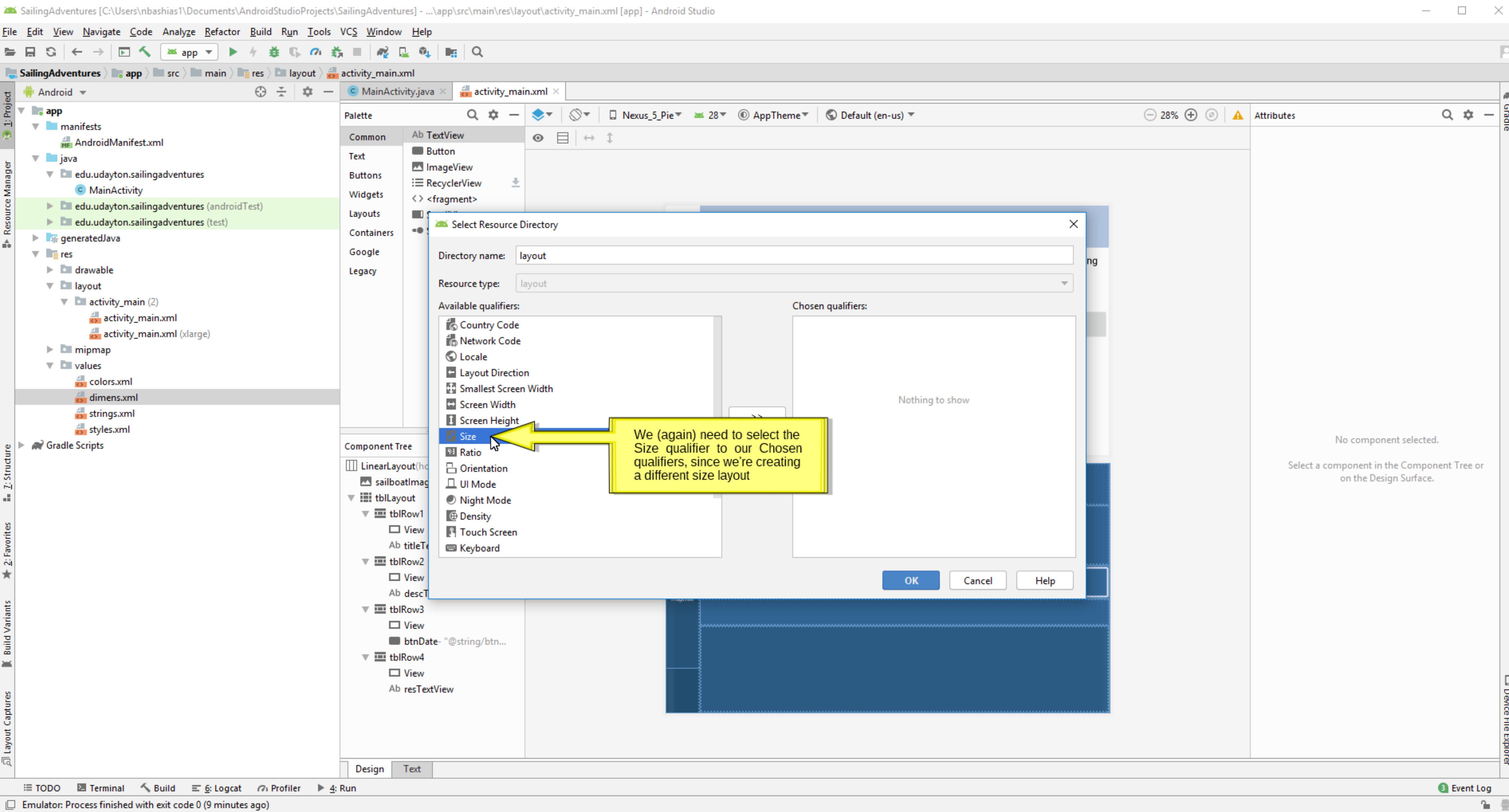
Select a component in the Component Tree or on the Design Surface.

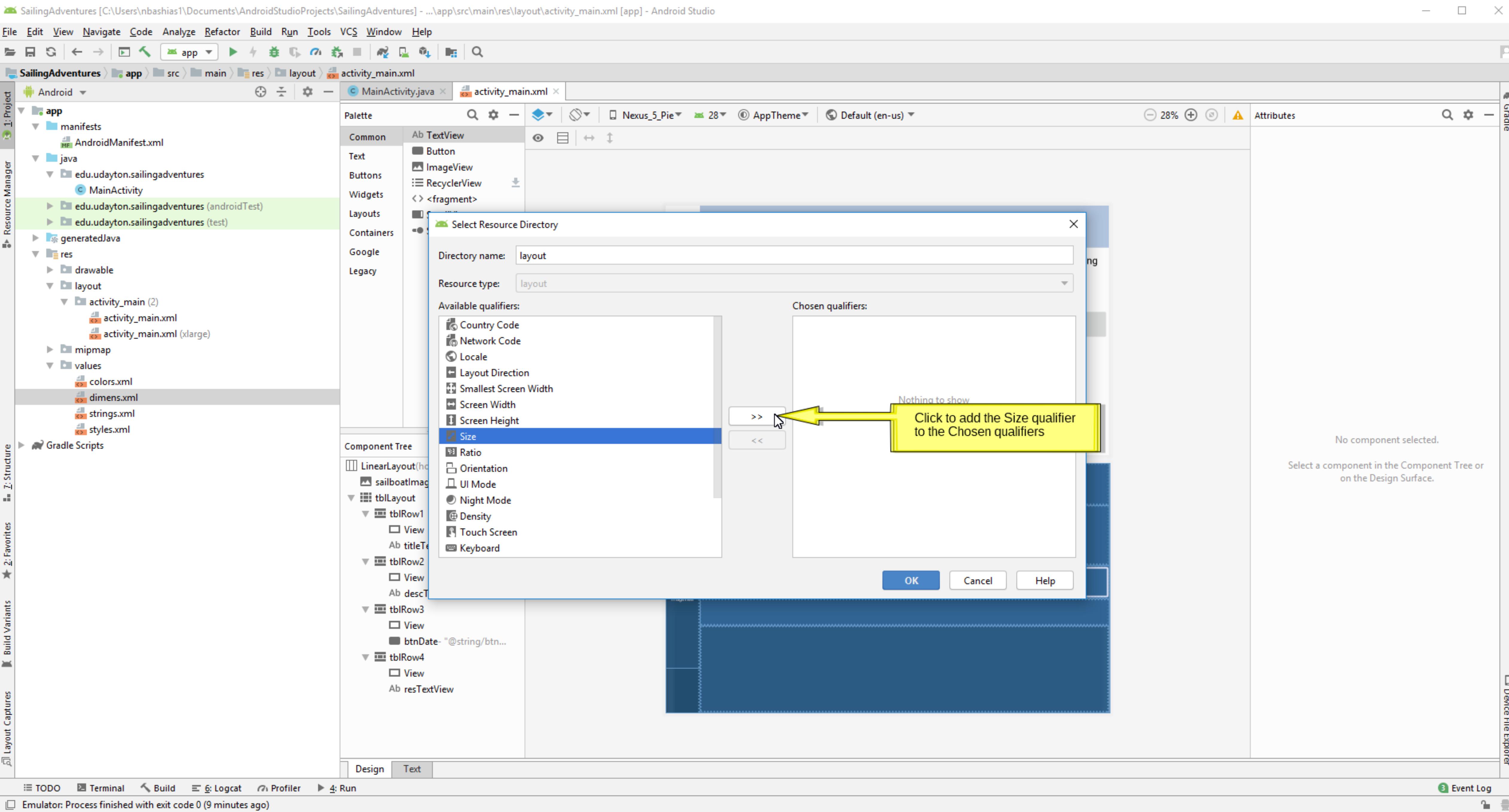
Design Text

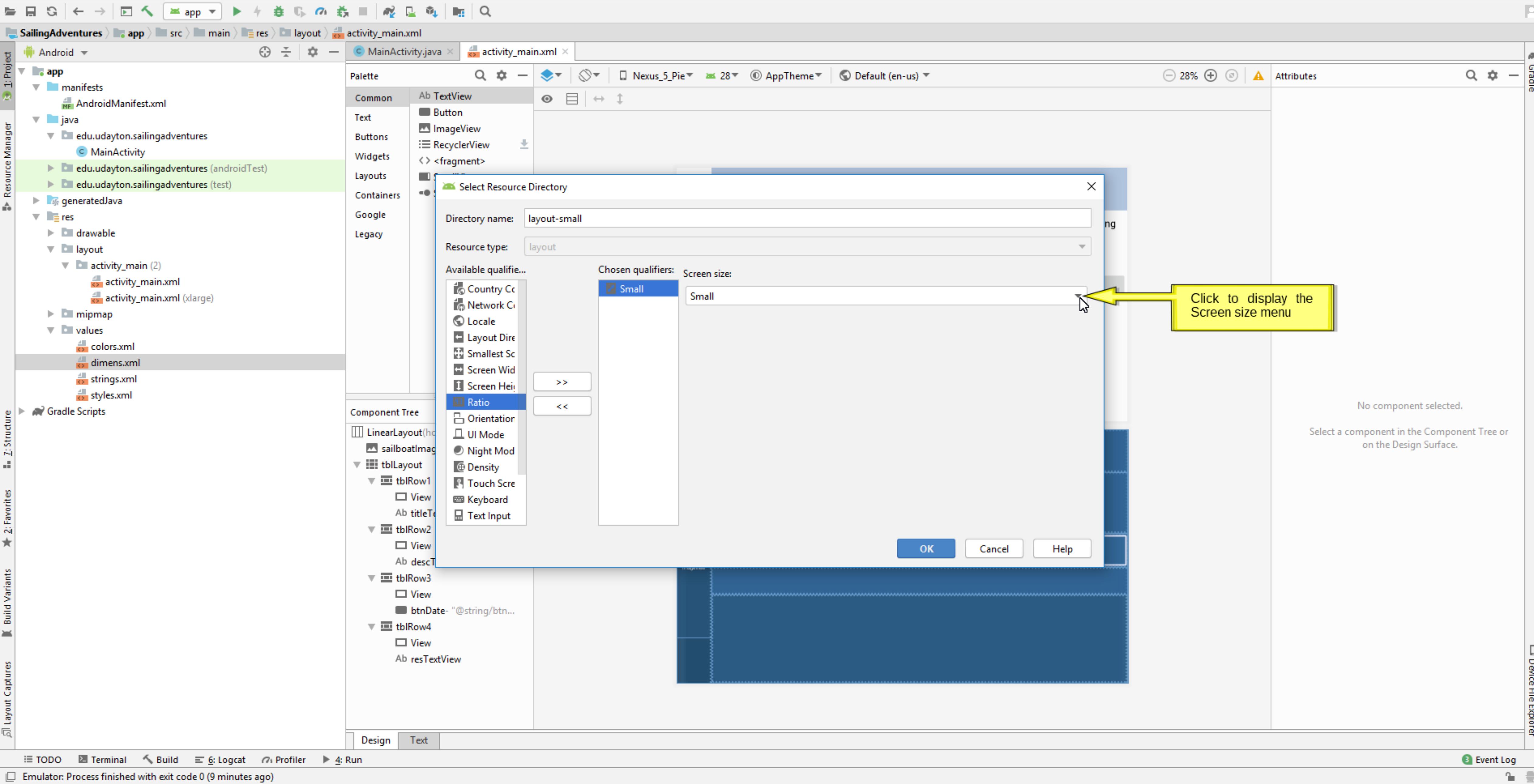
Device File Explorer

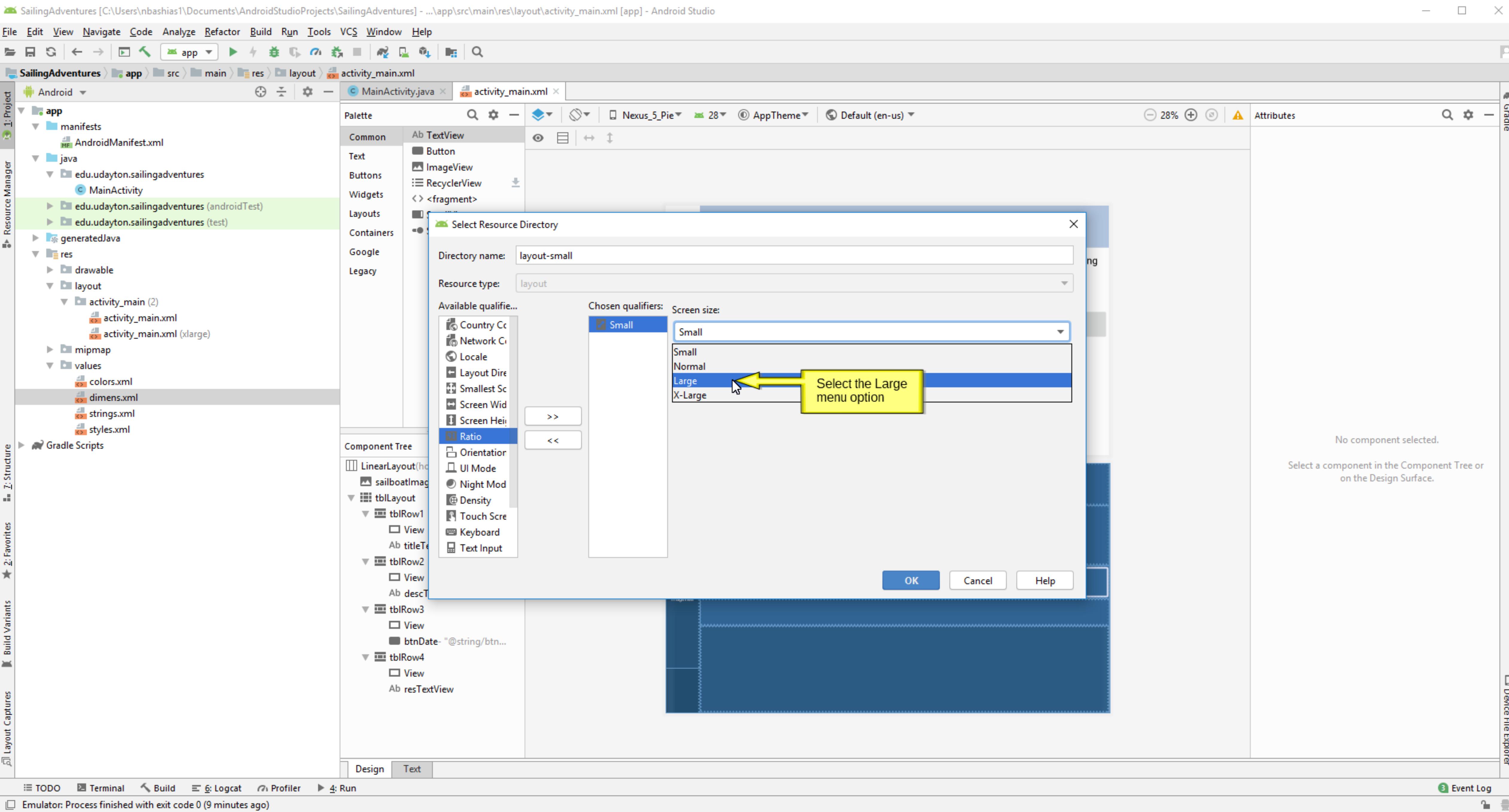
Event Log

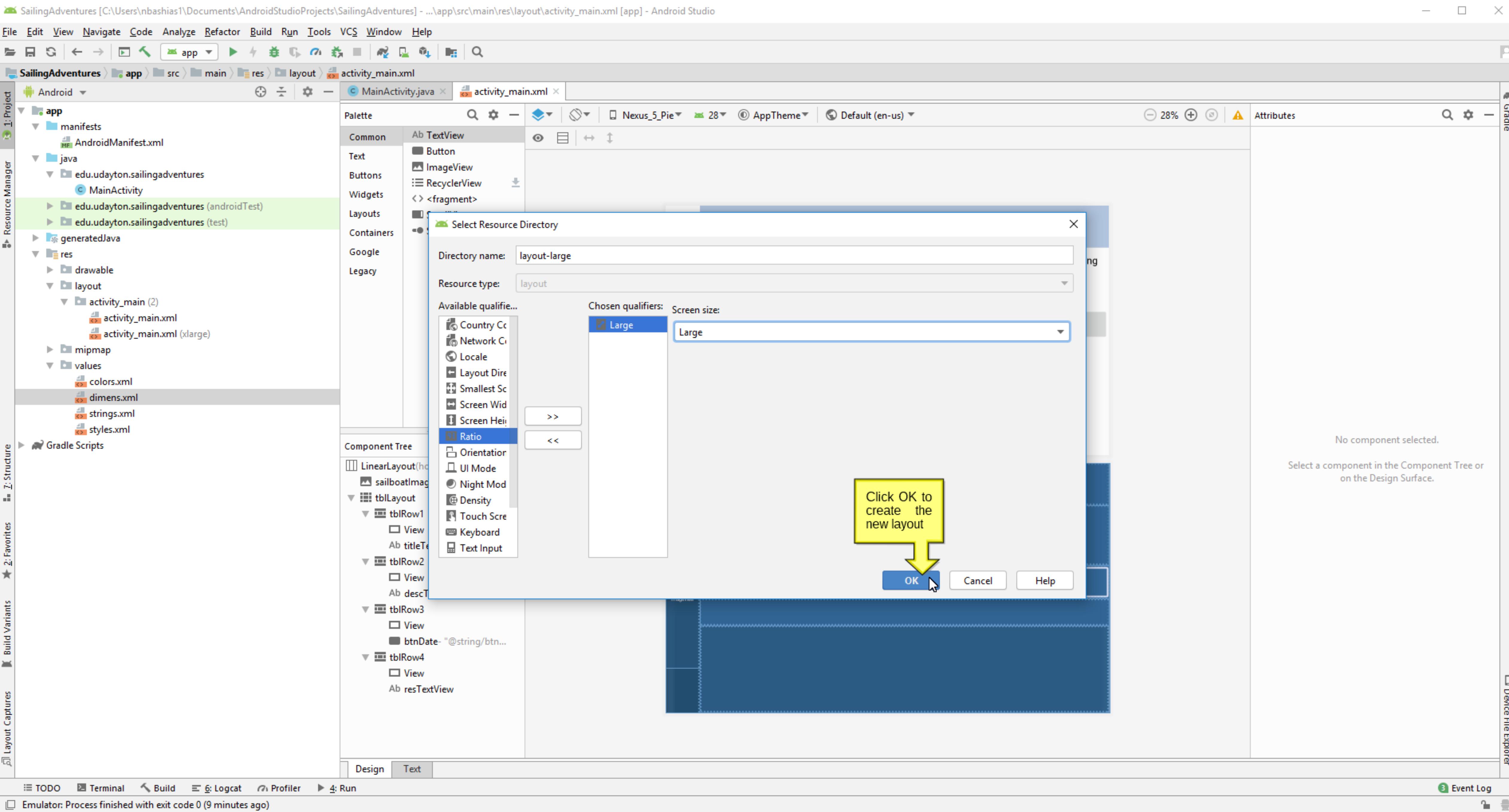


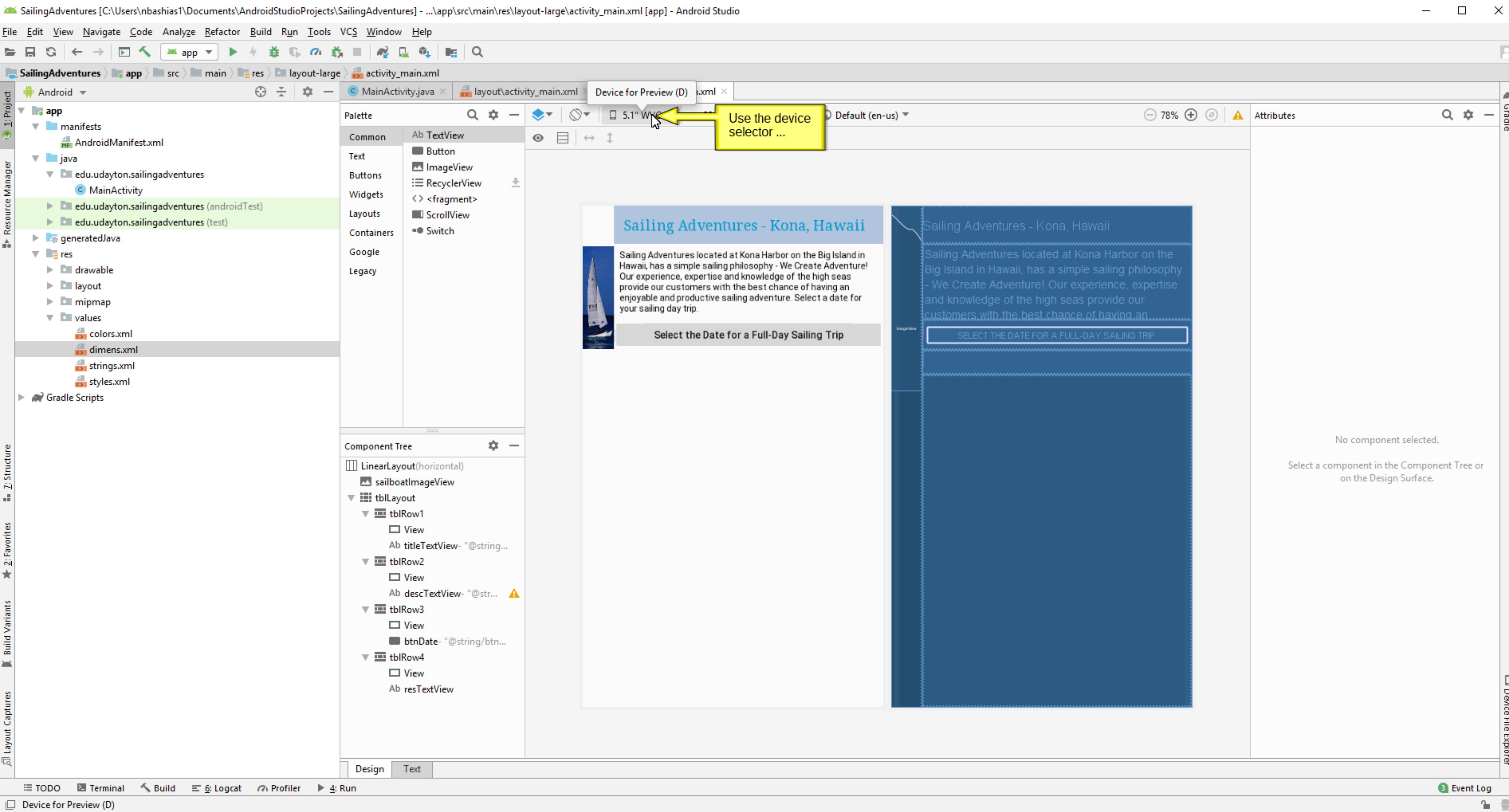












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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

SailingAdventures app src main res layout-large activity_main.xml

1:Project

Resource Manager

2:Structure

Build Variants

Layout Captures

Device File Explorer

Android

app

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

Gradle

Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

5.1" WVGA 28 AppTheme Default (en-us) 78% Attributes

Phone

- Pixel → layout\activity_main.xml
- Pixel 2 → layout\activity_main.xml
- Nexus 5X → layout\activity_main.xml
- Pixel 3 → layout\activity_main.xml
- Pixel XL → layout\activity_main.xml
- Nexus 6P → layout\activity_main.xml
- Nexus 6 → layout\activity_main.xml
- Pixel 2 XL → layout\activity_main.xml
- Pixel 3 XL → layout\activity_main.xml

Tablet

- 7.0, 800 × 1280, tvdpi (Nexus 7 2012)
- 7.0, 1200 × 1920, xhdpi (Nexus 7)
- Nexus 9 → xlarge\activity_main.xml
- Pixel C → xlarge\activity_main.xml
- Nexus 10 → xlarge\activity_main.xml

Wear

- Android Wear Square → layout\activity_main.xml
- Android Wear Round → layout\activity_main.xml
- Android Wear Round Chin → layout\activity_main.xml

TV

- Android TV (1080p) → xlarge\activity_main.xml
- Android TV (720p) → xlarge\activity_main.xml

Custom

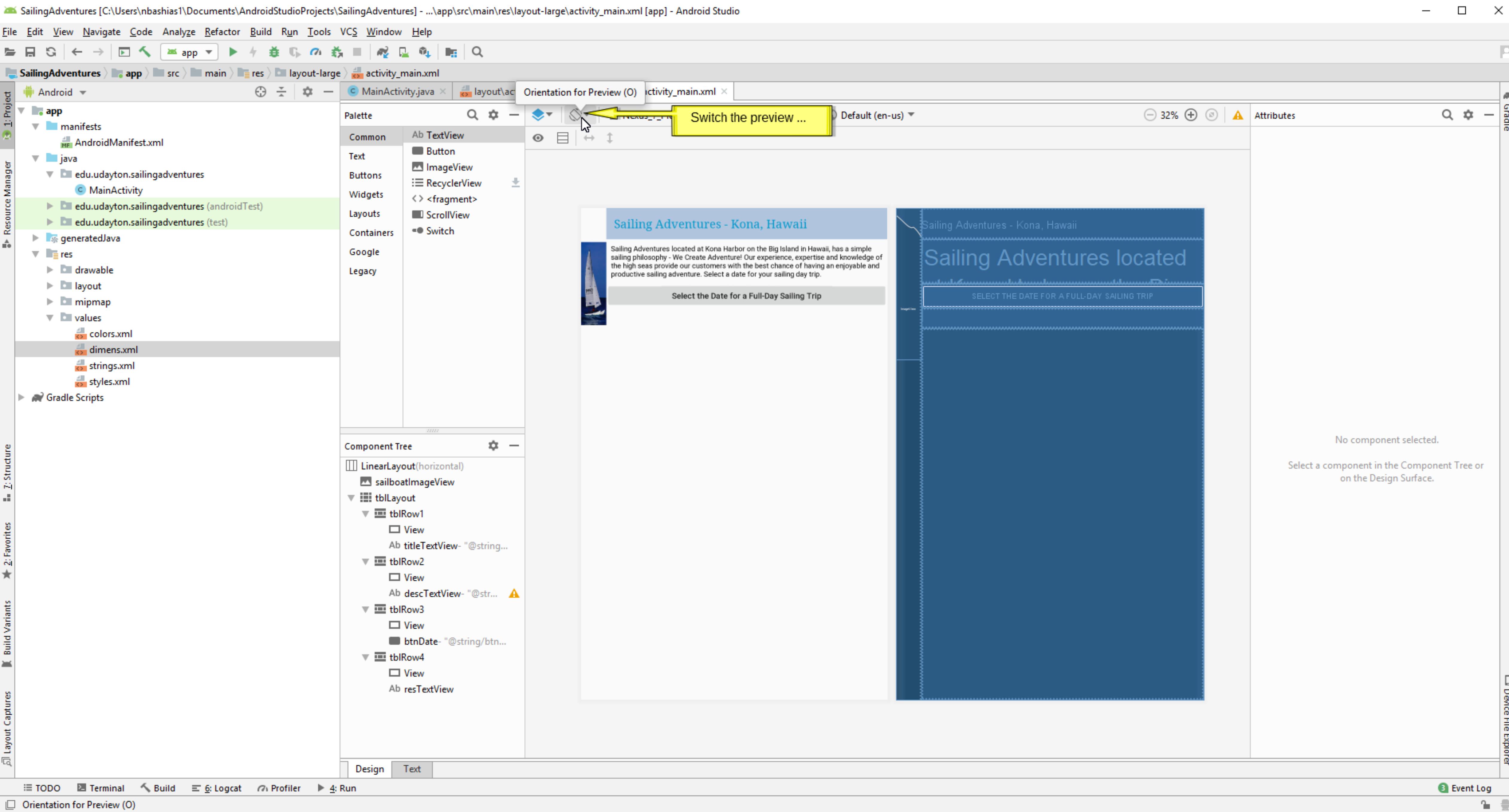
- Virtual Device
- AVD: Nexus10_Pie
- AVD: Nexus5_Pie
- AVD: Nexus7_Pie**
- Generic Phones and Tablets
- Add Device Definition...

... to change the preview to the Nexus 7 system image (created in Part 1)

Design Text

Emulator: Process finished with exit code 0 (9 minutes ago)

Event Log



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

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

SailingAdventures app src main res layout-large activity_main.xml

1:Project

Resource Manager

Palette

MainActivity.java layout\activity_main.xml large\activity_main.xml

Nexus_7_Pie 28 AppTheme Default (en-us) 32% Attributes

Portrait Landscape ... to landscape orientation

Common Text Buttons Widgets Layouts Containers Google Legacy

Landscape UI Mode Night Mode Switch to layout Switch to layout-large Switch to layout-xlarge Create Landscape Variation Create Tablet Variation Create Other...

... to landscape orientation

Component Tree

LinearLayout(horizontal)
 sailboatImageview
tblLayout
 tblRow1
 View
 titleTextview- "@string..."
 tblRow2
 View
 descTextview- "@str..."
 tblRow3
 View
 btndate- "@string/btn..."
 tblRow4
 View
 resTextview

No component selected.

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

Design Text

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (9 minutes ago)

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

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

SailingAdventures app src main res layout-large activity_main.xml

1:Project SailingAdventures

Resource Manager

Java

MainActivity.java

layout\activity_main.xml

large\activity_main.xml

Attributes

Gradle

Android

app

manifests

AndroidManifest.xml

java

edu.udayton.sailingadventures

MainActivity

edu.udayton.sailingadventures (androidTest)

edu.udayton.sailingadventures (test)

generatedJava

res

drawable

layout

mipmap

values

colors.xml

dimens.xml

strings.xml

styles.xml

Gradle Scripts

2:Structure

Component Tree

LinearLayout(horizontal)

- sailboatImageview
- tblLayout

 - tblRow1

 - View
 - titleTextView- "@string..."

tblRow2

- View
- descTextView- "@str..."

tblRow3

- View
- btnDate- "@string/btn..."

tblRow4

- View
- resTextView

Design Text

Nexus_7_Pie 28 AppTheme Default (en-us) 26% Attributes

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

Yes, the screen contents (again) look too small

No component selected.

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

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (9 minutes ago)

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

File Edit Under the Edit menu ... Tools VCS Window Help

SailingAdventures app src main res layout-large activity_main.xml

MainActivity.java layout\activity_main.xml large\activity_main.xml

Preview Nexus_7_Pie 28 AppTheme 23% + -

Project 1: Project

Resource Manager

Gradle

Preview

1: Structure

2: Favorites

Build Variants

Layout Captures

File Explorer

Under the Edit menu ...

1 <?xml version="1.0" encoding="utf-8"?>

2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3 xmlns:app="http://schemas.android.com/apk/res-auto"
4 xmlns:tools="http://schemas.android.com/tools"
5 android:layout_width="match_parent"
6 android:layout_height="match_parent"
7 tools:context=".MainActivity">

8 <ImageView
9 android:id="@+id/sailboatImageView"
10 android:layout_width="99dp"
11 android:layout_height="295dp"
12 android:layout_weight="1"
13 android:contentDescription="sailboat"
14 app:srcCompat="@drawable/sail" />

15 <TableLayout
16 android:id="@+id/tblLayout"
17 android:layout_width="fill_parent"
18 android:layout_height="fill_parent"
19 android:layout_gravity="center_vertical"
20 android:layout_weight="1">

21 <TableRow
22 android:id="@+id/tblRow1"
23 android:layout_width="fill_parent"
24 android:layout_height="wrap_content" >
25 <View android:layout_height="27dp" />

26 <TextView
27 android:id="@+id/titleTextView"
28 android:layout_width="wrap_content"
29 android:layout_height="wrap_content"
30 android:background="@color/titleBackground"
31 android:gravity="fill_horizontal"
32 android:padding="15dp"
33 android:text="Sailing Adventures - Kona, Hawaii"
34 android:textColor="@android:color/holo_blue_dark"
35 android:textSize="23sp"
36 app:fontFamily="serif" />

37 </TableRow>

38 <TableRow
39 android:id="@+id/tblRow2"
40 android:layout_width="fill_parent"
41 android:layout_height="wrap_content" >
42 <View android:layout_height="27dp" />

43 </TableLayout>

44 <View android:layout_width="fill_parent"
45 android:layout_height="wrap_content" />

46 <View android:layout_width="fill_parent"
47 android:layout_height="wrap_content" />

Design Text

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

Emulator: Process finished with exit code 0 (10 minutes ago)

1:1 LF UTF-8 4 spaces

Event Log

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

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

Undo Ctrl+Z
Redo Ctrl+Shift+Z

Cut Ctrl+X
Copy Ctrl+C
Copy Path Ctrl+Shift+C
Copy Reference Ctrl+Alt+Shift+C
Paste Ctrl+V
Paste from History... Ctrl+Shift+V
Paste without Formatting Ctrl+Alt+Shift+V
Delete Delete

Find Find... Ctrl+F
Replace... ... select Find > Replace...
Find Next / Move to Next Occurrence
Find Previous / Move to Previous Occurrence Shift+F3
Find Word at Caret Ctrl+F3
Select All Occurrences Ctrl+Alt+Shift+J
Add Selection for Next Occurrence Alt+J
Unselect Occurrence Alt+Shift+J
Go to next highlighted element usage
Go to previous highlighted element usage
Find in Path... Ctrl+Shift+F
Replace in Path... Ctrl+Shift+R
Search Structurally...
Replace Structurally...
Find Usages Alt+F7
Find Usages Settings... Ctrl+Alt+Shift+F7
Show Usages Ctrl+Alt+F7
Find Usages in File Ctrl+F7
Highlight Usages in File Ctrl+Shift+F7
Recent Find Usages

Layout-large activity_main.xml

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

1 2 3 4 5 6 7 8

```
    <TableLayout
        android:id="@+id/tblRow1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content" >
        <TableRow
            android:background="@color/titleBackground"
            android:gravity="fill_horizontal"
            android:padding="15dp"
            android:text="Sailing Adventures - Kona, Hawaii"
            android:textColor="@android:color/holo_blue_dark"
            android:textSize="23sp"
            app:fontFamily="serif" />
        <TableRow
            android:id="@+id/tblRow2"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content" >
            <View android:layout_height="27dp" />
```

34 35 36 37 38 39 40 41 42 43 44 45 46 47

Design Text

Preview Nexus_7_Pie 28 AppTheme 23% 23%

Sailing Adventures - Kona, Hawaii
Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

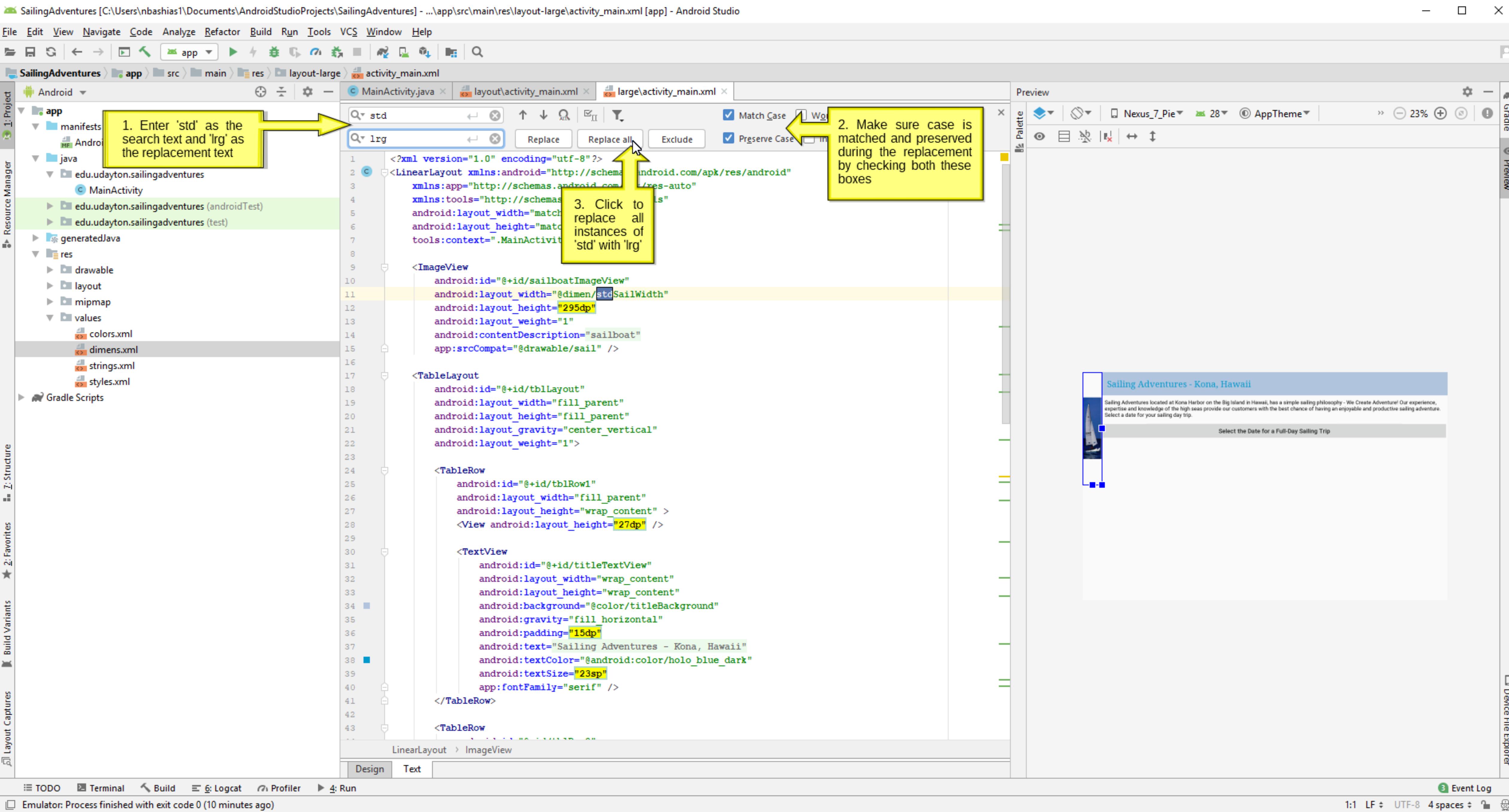
Select the Date for a Full-Day Sailing Trip

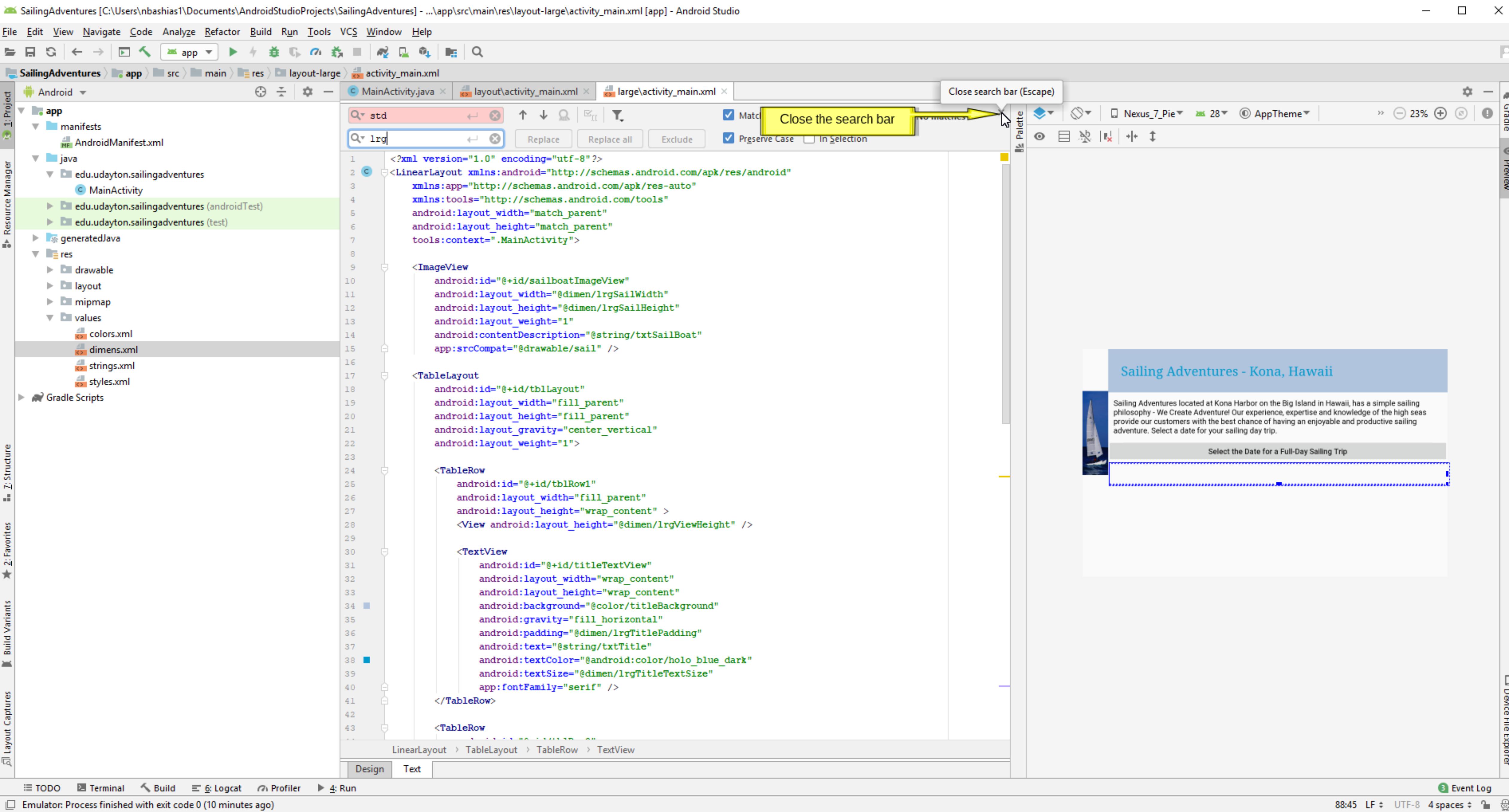
Device File Explorer

Event Log 3

TODO Terminal Build Logcat Profiler Run

Replace a string in active editor with another string





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

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

SailingAdventures app src main res layout-large activity_main.xml

1: Project SailingAdventures

Resource Manager

1: Structure

2: Favorites

Build Variants

Layout Captures

Design Text

Switch back to the layout's design view

LinearLayout > TableLayout > TableRow > TextView

MainActivity.java layout\activity_main.xml large\activity_main.xml

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

    <ImageView
        android:id="@+id/sailboatImageView"
        android:layout_width="@dimen/lrgSailWidth"
        android:layout_height="@dimen/lrgSailHeight"
        android:layout_weight="1"
        android:contentDescription="@string/txtSailBoat"
        app:srcCompat="@drawable/sail" />

    <TableLayout
        android:id="@+id/tblLayout"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        android:layout_gravity="center_vertical"
        android:layout_weight="1">

        <TableRow
            android:id="@+id/tblRow1"
            android:layout_width="fill_parent"
            android:layout_height="wrap_content" >
            <View android:layout_height="@dimen/lrgViewHeight" />

        <TextView
            android:id="@+id/titleTextView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:background="@color/titleBackground"
            android:gravity="fill_horizontal"
            android:padding="@dimen/lrgTitlePadding"
            android:text="@string/txtTitle"
            android:textColor="@android:color/holo_blue_dark"
            android:textSize="@dimen/lrgTitleTextSize"
            app:fontFamily="serif" />
    

```

Preview

Nexus_7_Pie 28 AppTheme 23% +

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

Device File Explorer

Event Log

Emulator: Process finished with exit code 0 (10 minutes ago) 88:45 LF UTF-8 4 spaces

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

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

Re-build the project

Make Project (Ctrl+F9)

MainActivity.java layout\activity_main.xml large\activity_main.xml

Android

Project

SailingAdventure

Resource Manager

1:Project

2:Structure

3:Favorites

Build Variants

Layout Captures

Design Text

Palette

Common Text Buttons Widgets Layouts Containers Google Legacy

Nexus_7_Pie 28 AppTheme Default (en-us) 26% Attributes

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

The preview looks better now! :)

No component selected.

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

Sailing Adventures - Kona, Hawaii

Sailing Adventures

SELECT THE DATE FOR A FULL-DAY SAILING TRIP

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Emulator: Process finished with exit code 0 (10 minutes ago)

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

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

Open the AVD Manager

AVD Manager

SailingAdventures > app > src > main > res > layout-large

MainActivity.java layout\activity_main.xml large\activity_main.xml

Palette

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

Nexus_7_Pie 28 AppTheme Default (en-us)

26% Attributes

1:Project Resource Manager

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

No component selected.

Component Tree

- LinearLayout(horizontal)
 - sailboatImageview
- tblLayout
 - tblRow1
 - View
 - Ab titleTextView- "@string..."
 - tblRow2
 - View
 - Ab descTextView- "@str..."
 - tblRow3
 - View
 - btnDate- "@string/btn..."
 - tblRow4
 - View
 - Ab resTextView

Sailing Adventures - Kona, Hawaii

Sailing Adventures

SELECT THE DATE FOR A FULL-DAY SAILING TRIP

No component selected.

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

2: Favorites Build Variants Layout Captures Event Log

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 690 ms (moments ago)

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

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

Android Virtual Device Manager

Your Virtual Devices

Android Studio

Type Name Play Store Resolution API Target CPU/ABI Size on Disk Actions

Tablet	Nexus 10 Pie		2560 x 1600: xhdpi	28	Android 9.0 (Google APIs)	x86	3.0 GB	
Tablet	Nexus 5 Pie		1080 x 1920: xxhdpi	28	Android 9.0 (Google Play)	x86	9.5 GB	
Tablet	Nexus 7 Pie		1200 x 1920: xhdpi	28	Android 9.0 (Google APIs)	x86	513 MB	

This time, start the emulator with the Nexus 7 system image

+ Create Virtual Device...

Design Text

TODO Terminal Build Logcat Profiler Run

Gradle build finished in 5 s 690 ms (moments ago) Event Log

Resource Manager

1: Project

2: Favorites

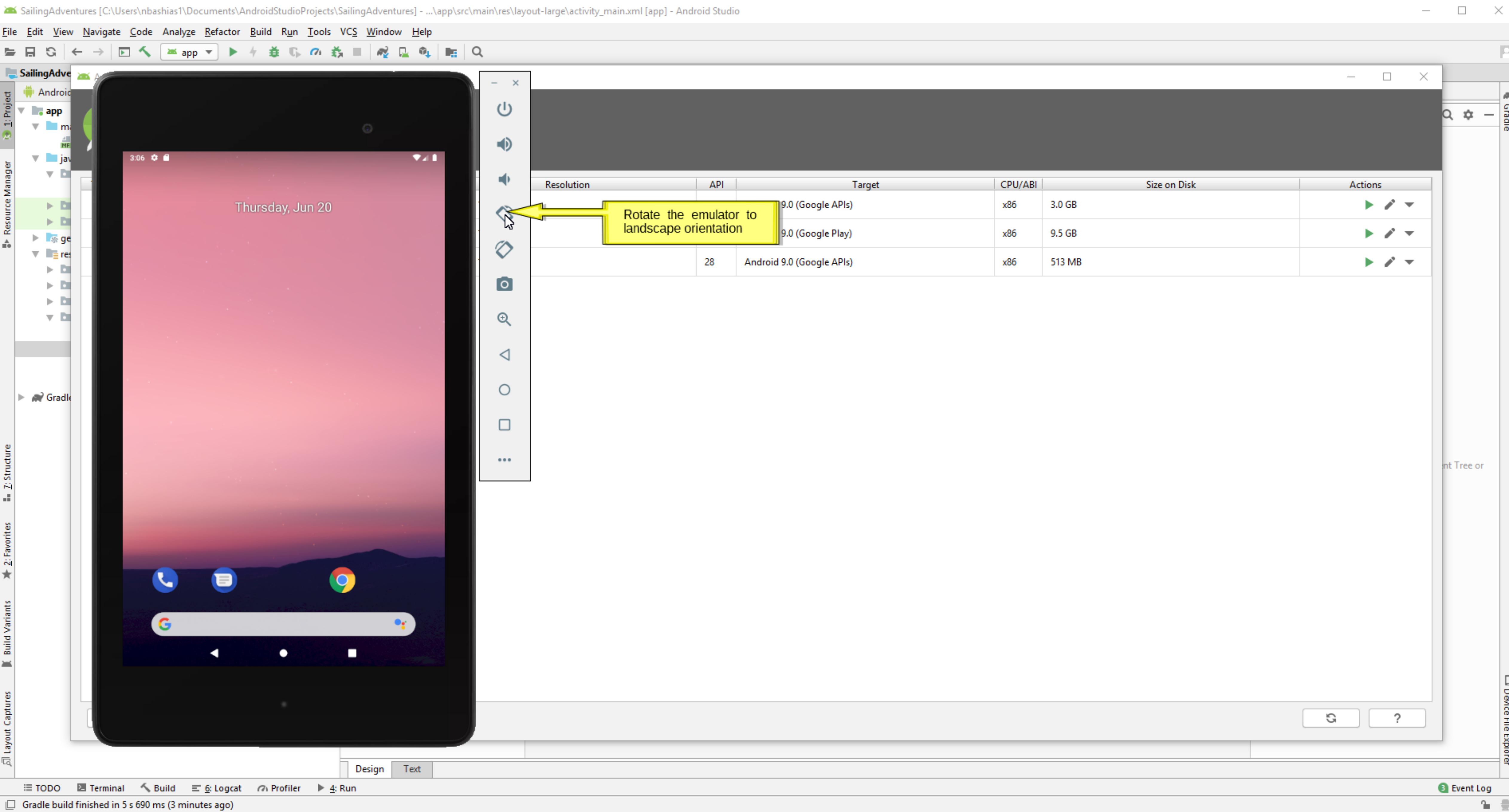
Build Variants

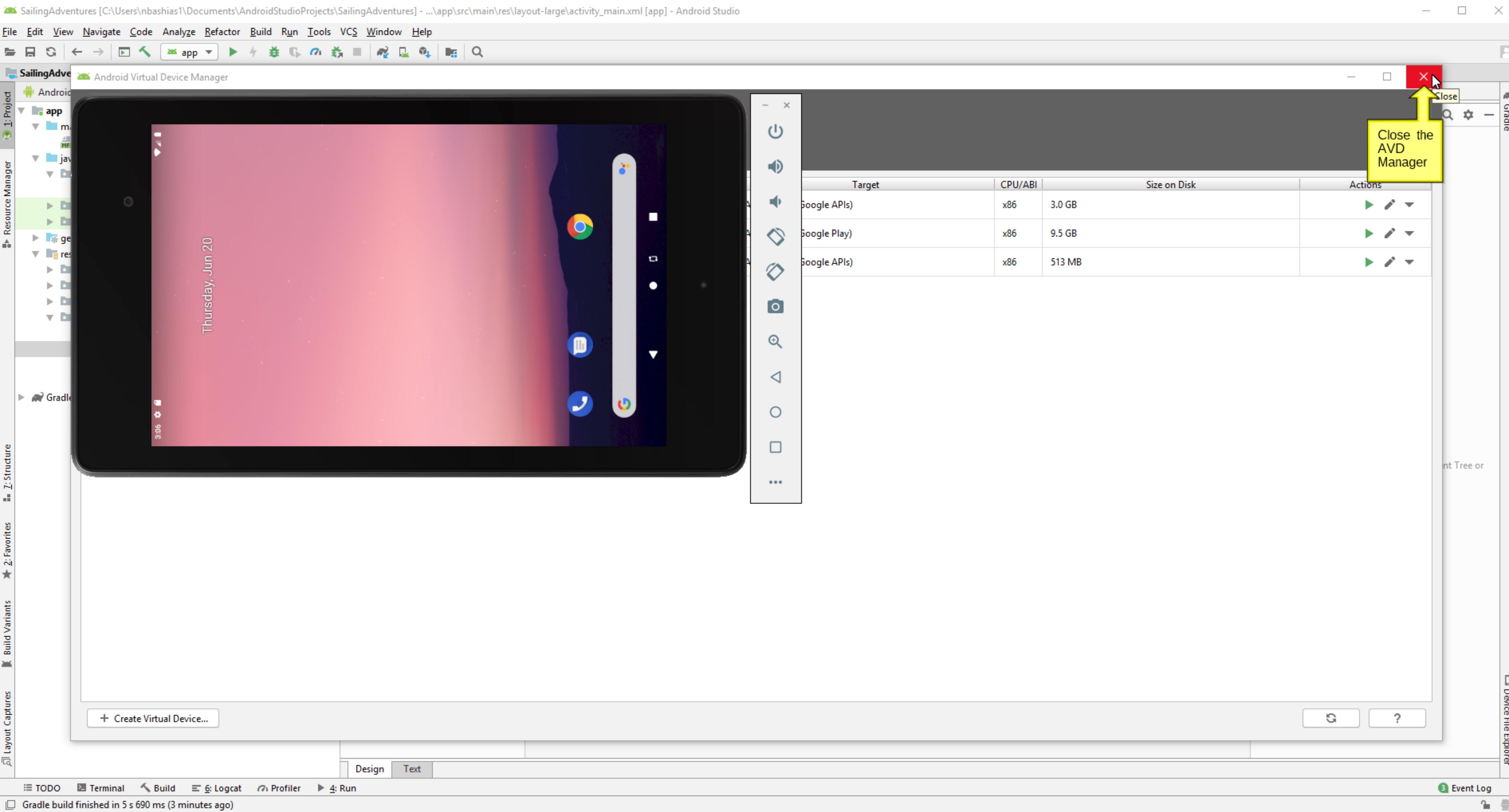
Layout Captures

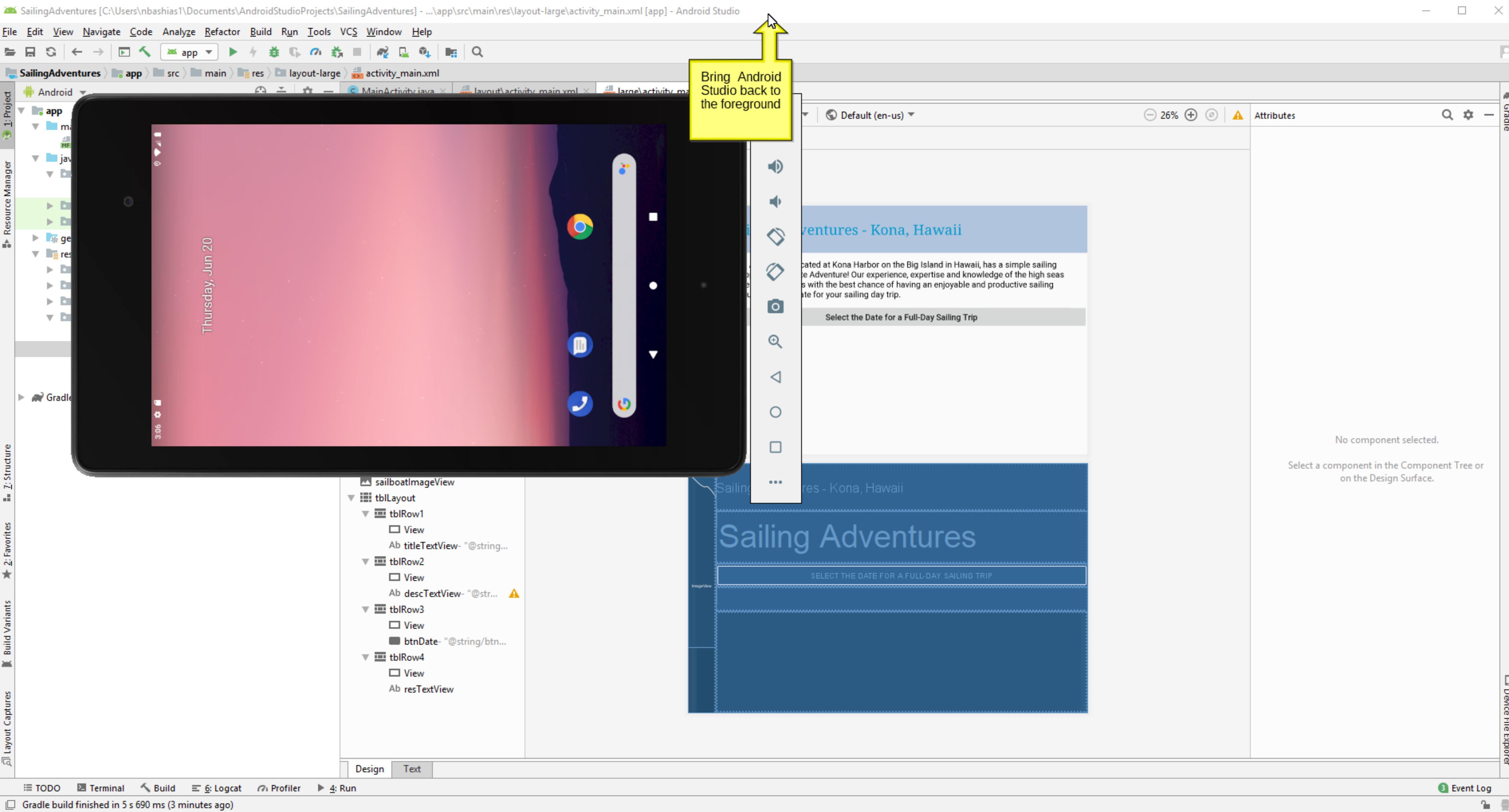
Gradle

Z: Structure

Device File Explorer







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

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

Re-run the app

SailingAdventures > app > src > Run 'app' (Shift+F10) > layout-large > activity_main.xml

Android

Project

Resource Manager

1: Project

app

- manifests
- AndroidManifest.xml
- java
- edu.udayton.sailingadventures
- MainActivity
- edu.udayton.sailingadventures (androidTest)
- edu.udayton.sailingadventures (test)

generatedJava

res

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

Gradle Scripts

2: Structure

3: Favorites

Build Variants

Layout Captures

Design Text

Palette

Common

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

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Nexus_7_Pie 28 AppTheme Default (en-us)

26% Attributes

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

SailboatImage

No component selected.

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

Sailing Adventures - Kona, Hawaii

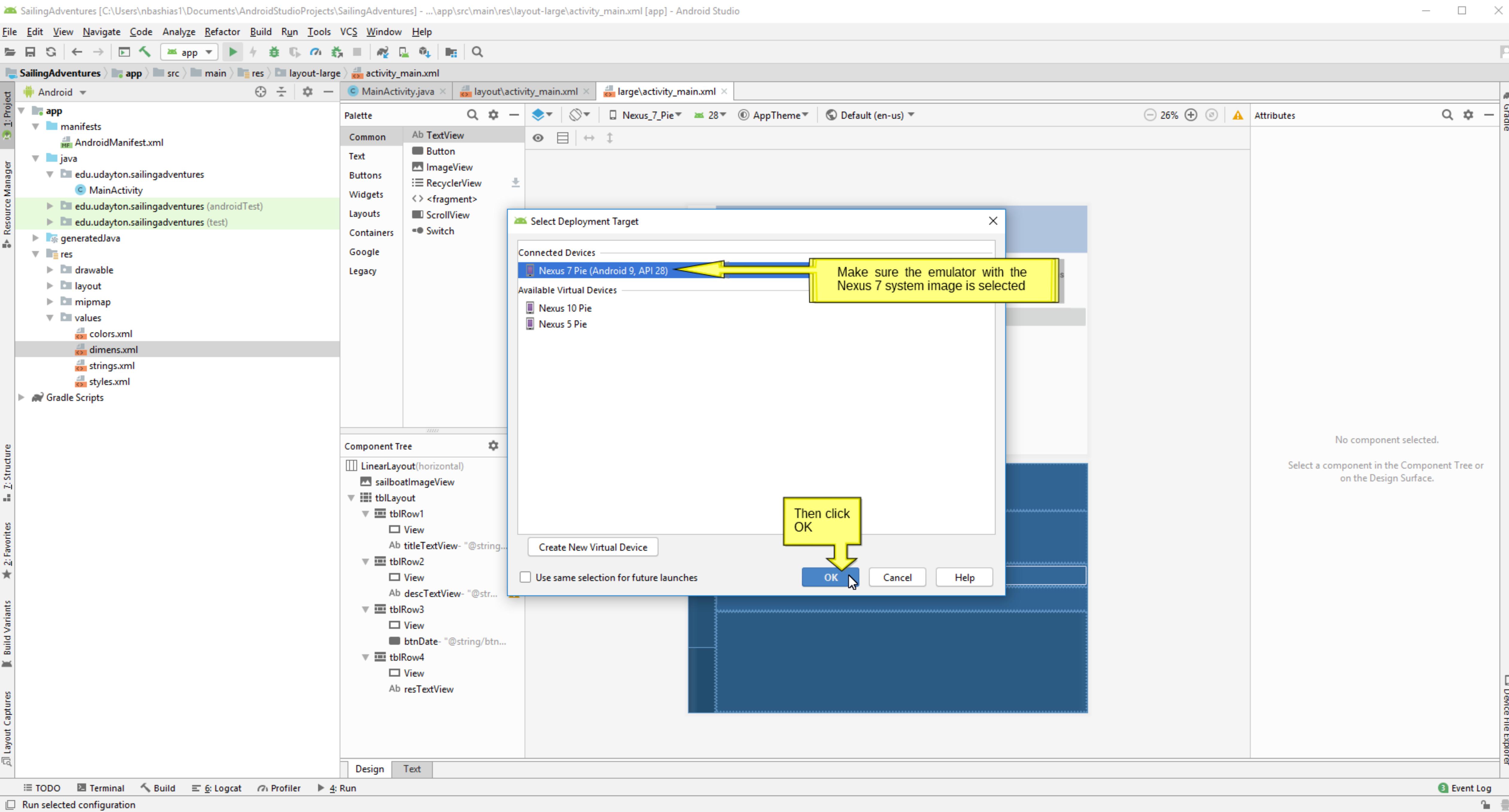
Sailing Adventures

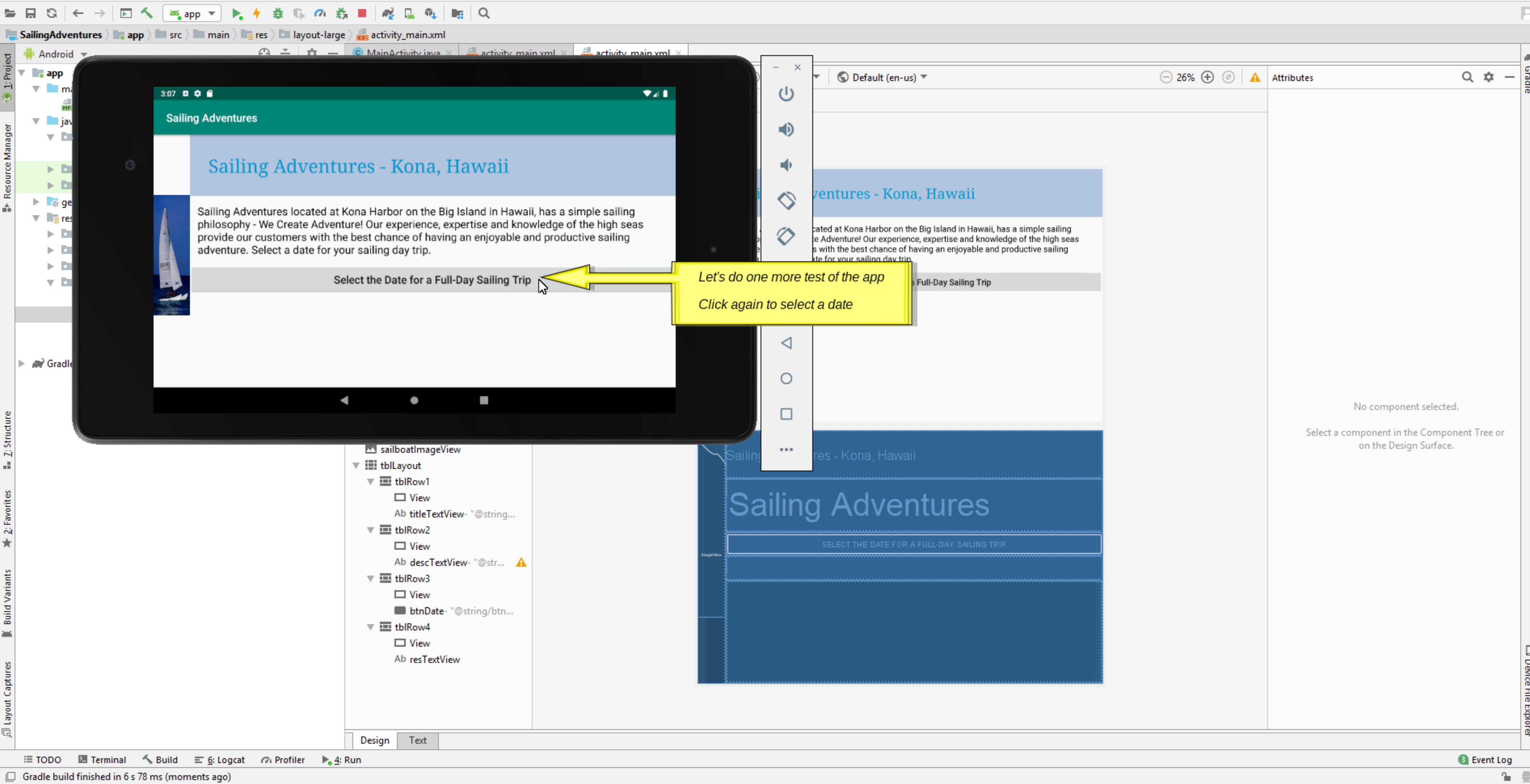
SELECT THE DATE FOR A FULL-DAY SAILING TRIP

Device File Explorer

TODO Terminal Build Logcat Profiler Run Event Log

Run selected configuration







Sailing Adventures

Sailing Adventures philosophy - We provide our customers with a simple sailing experience of the high seas and productive sailing.

3:07 Sun, Aug 11

2019 August 2019

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

CANCEL OK

Select the date, then click OK

Sailing Adventures - Kona, Hawaii

located at Kona Harbor on the Big Island in Hawaii, has a simple sailing experience. Our expertise, knowledge of the high seas and productivity with the best chance of having an enjoyable and productive sailing trip for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

No component selected.

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

Sailing Adventures

SELECT THE DATE FOR A FULL-DAY SAILING TRIP

Component Tree:

- sailboatImageView
- tblLayout
- tblRow1
- View
- titleTextView - "@string/title_text"
- tblRow2
- View
- descTextView - "@string/description_text" ⚠
- tblRow3
- View
- btnDate - "@string/button_date" ⚠
- tblRow4
- View
- resTextView



Sailing Adventures

Sailing Adventures - Kona, Hawaii

Sailing Adventures located at Kona Harbor on the Big Island in Hawaii, has a simple sailing philosophy - We Create Adventure! Our experience, expertise and knowledge of the high seas provide our customers with the best chance of having an enjoyable and productive sailing adventure. Select a date for your sailing day trip.

Select the Date for a Full-Day Sailing Trip

Your reservation is set for Aug 11, 2019

It works!

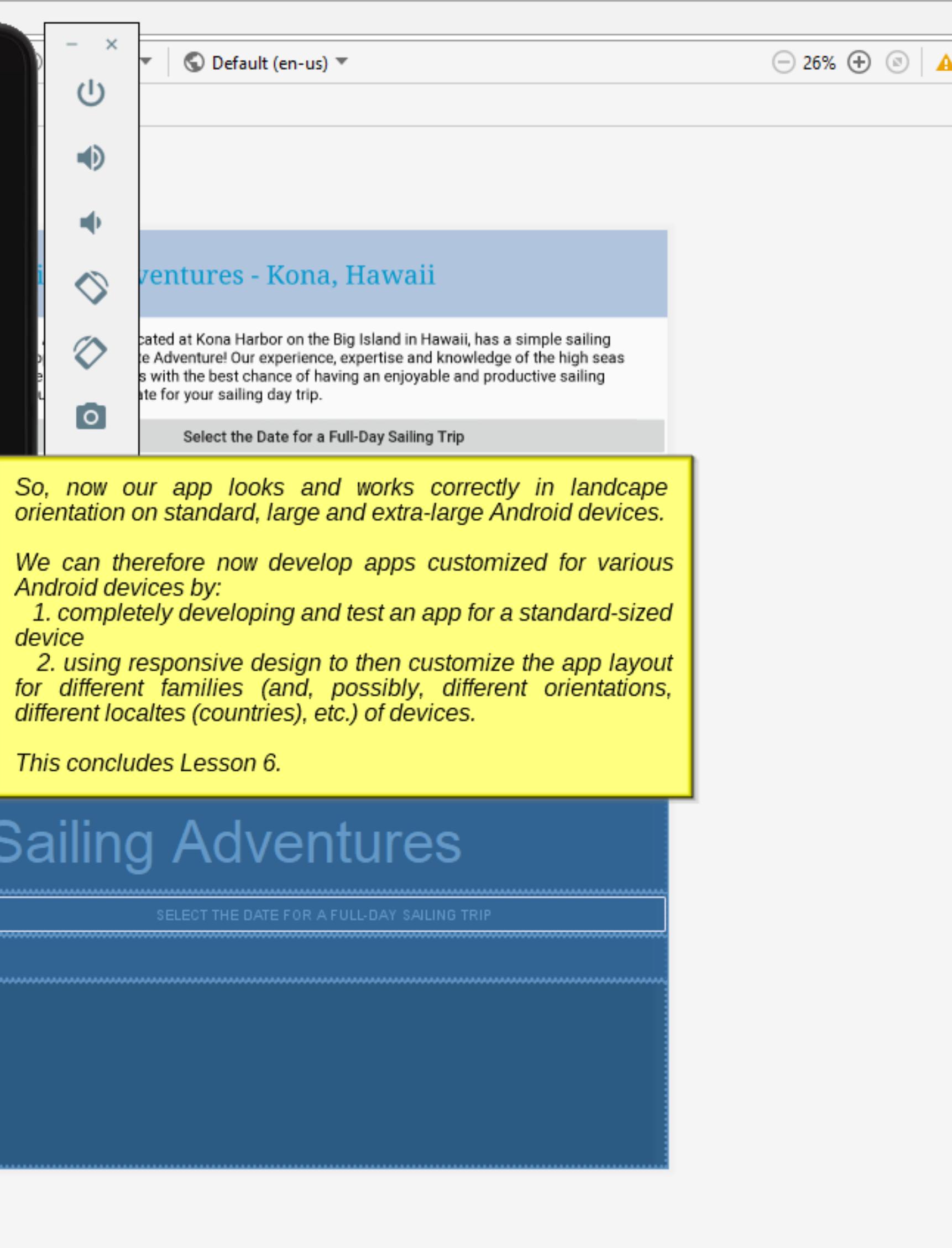
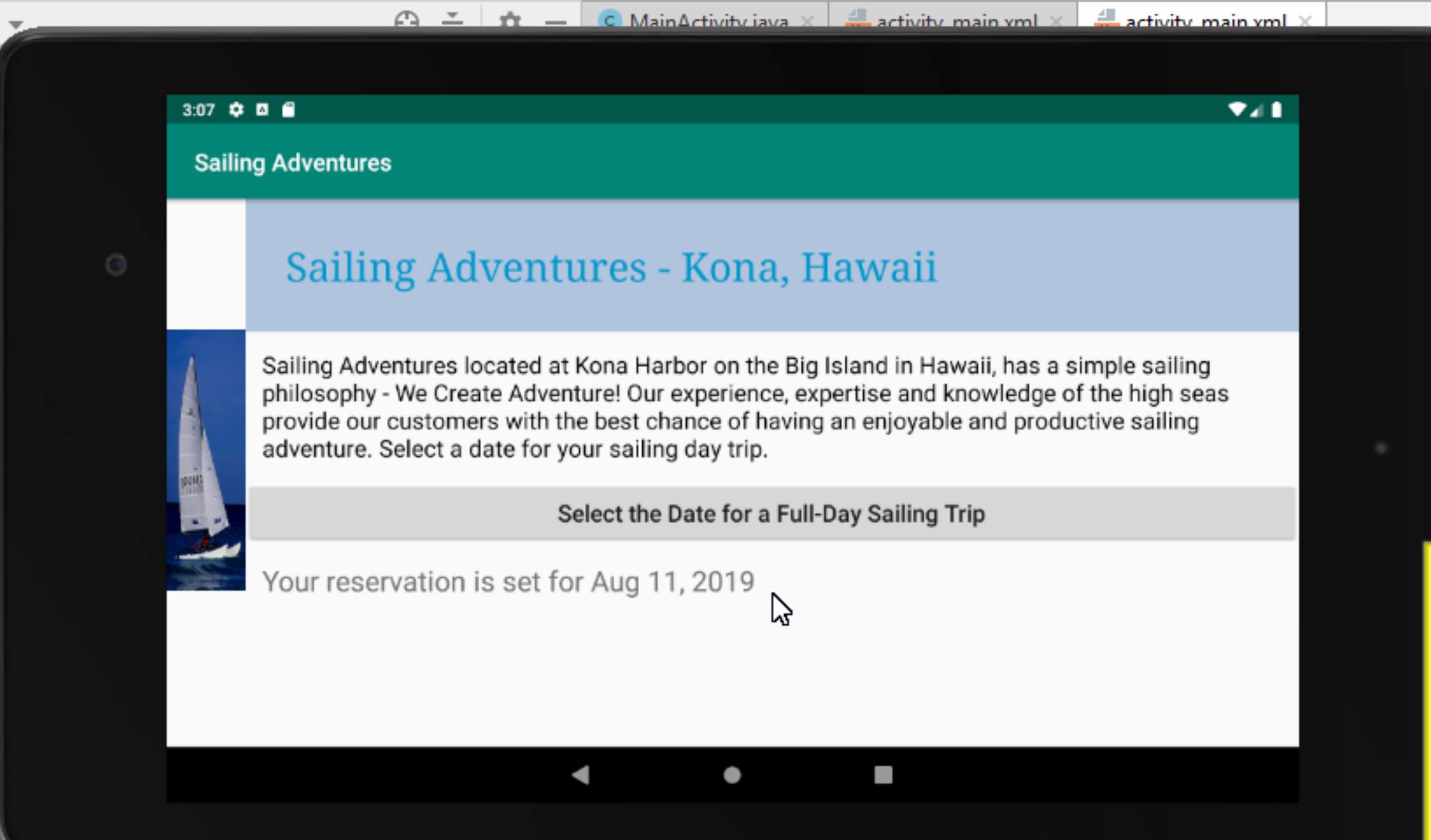
No component selected.

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

Design Text

Component Tree:

- sailboatImageView
- tblLayout
- tblRow1
- View
- titleTextView- "@string..."
- tblRow2
- View
- descTextView- "@str..." ⚠
- tblRow3
- View
- btnDate- "@string/btn..." ⚠
- tblRow4
- View
- resTextView



So, now our app looks and works correctly in landscape orientation on standard, large and extra-large Android devices.

We can therefore now develop apps customized for various Android devices by:

1. completely developing and test an app for a standard-sized device
2. using responsive design to then customize the app layout for different families (and, possibly, different orientations, different locales (countries), etc.) of devices.

This concludes Lesson 6.

No component selected.

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