Creating a First Screen

Gill Cleeren
CTO XPIRIT BELGIUM

@gillcleeren   www.snowball.be

Overview

Exploring Visual Studio support for Xamarin

Creating Layouts

Widgets

Styling our application

Exploring Visual Studio Support for Xamarin

Demo

Exploring the designer in Visual Studio

Drag and drop support

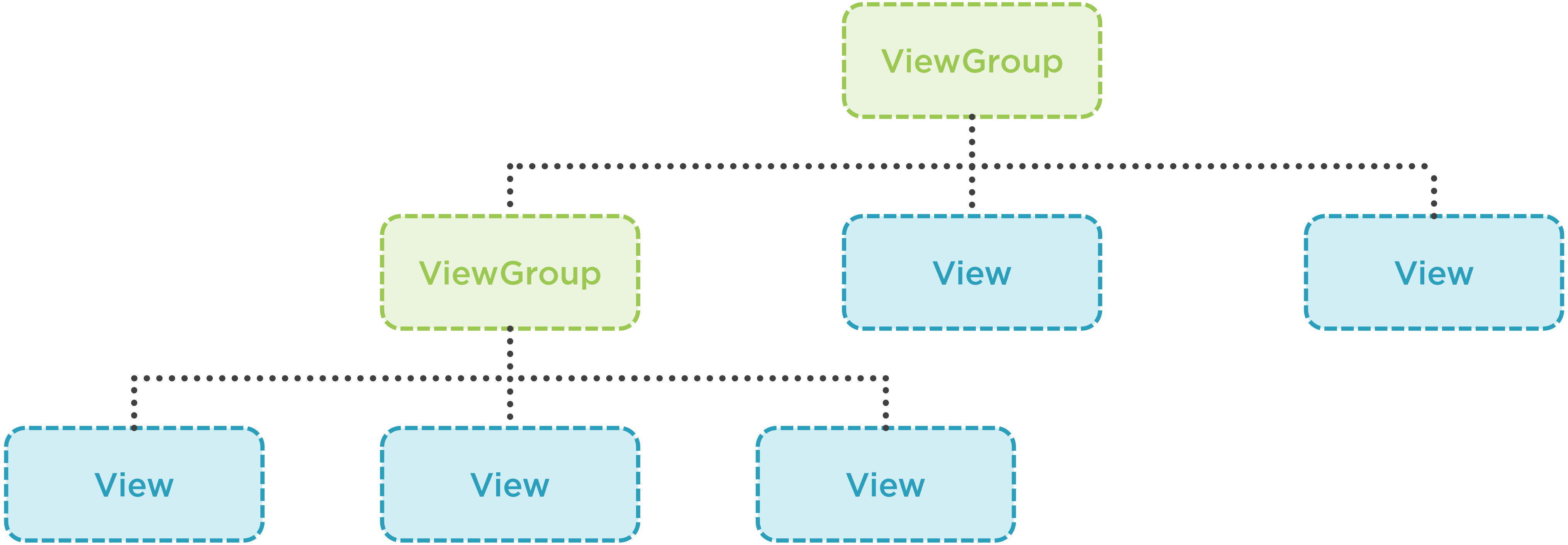
Creating Layouts

Building Android Screens

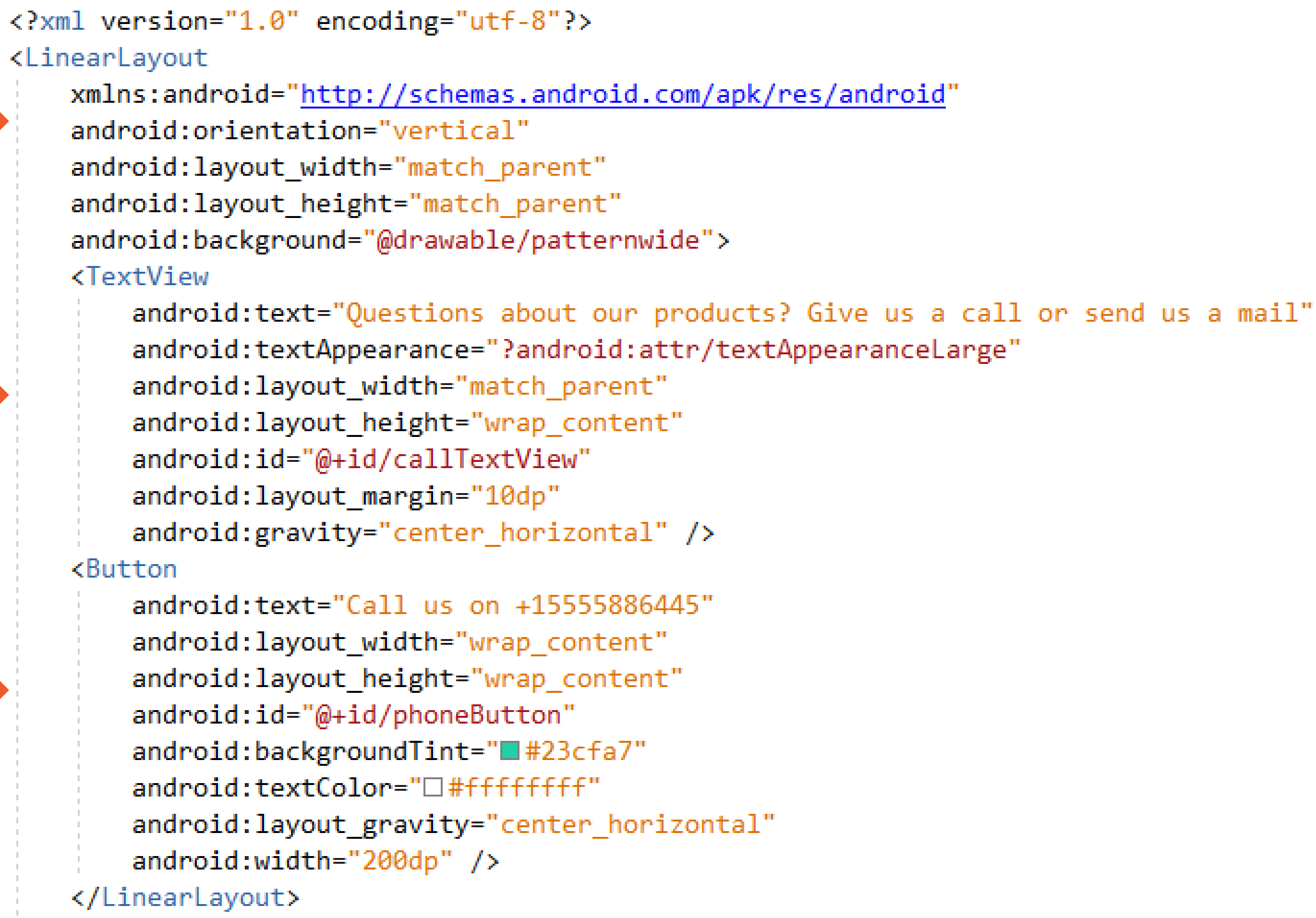
Layout - ViewGroups

Widget - Views

Android Layouts



Layout Structure



```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/patternwide">
    <TextView
        android:text="Questions about our products? Give us a call or send us a mail"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/callTextView"
        android:layout_margin="10dp"
        android:gravity="center_horizontal" />
    <Button
        android:text="Call us on +15555886445"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/phoneButton"
        android:backgroundTint="🟩#23cfa7"
        android:textColor="□#ffffffff"
        android:layout_gravity="center_horizontal"
        android:width="200dp" />
    </LinearLayout>
```

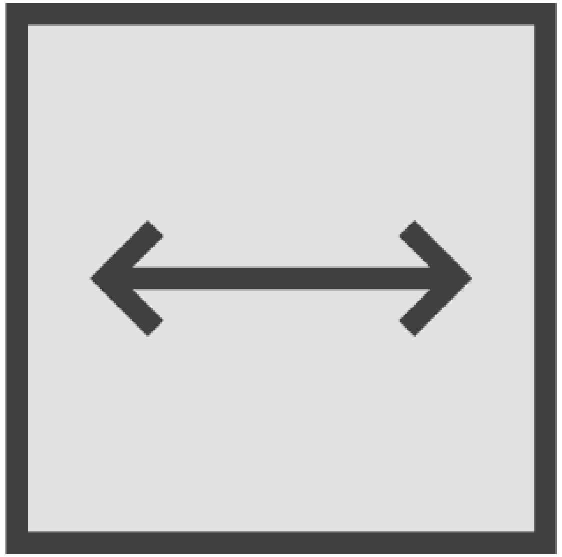
Built-in Layouts

LinearLayout

RelativeLayout

TableLayout

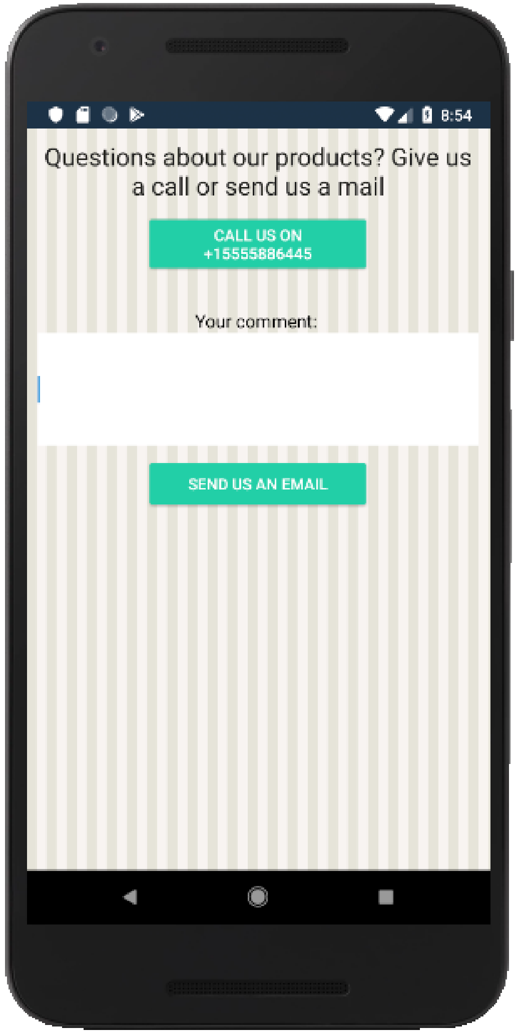
ConstraintLayout



LinearLayout

- Simple layout
- Stack children horizontally or vertically
- Weight

Using the LinearLayout



8:54

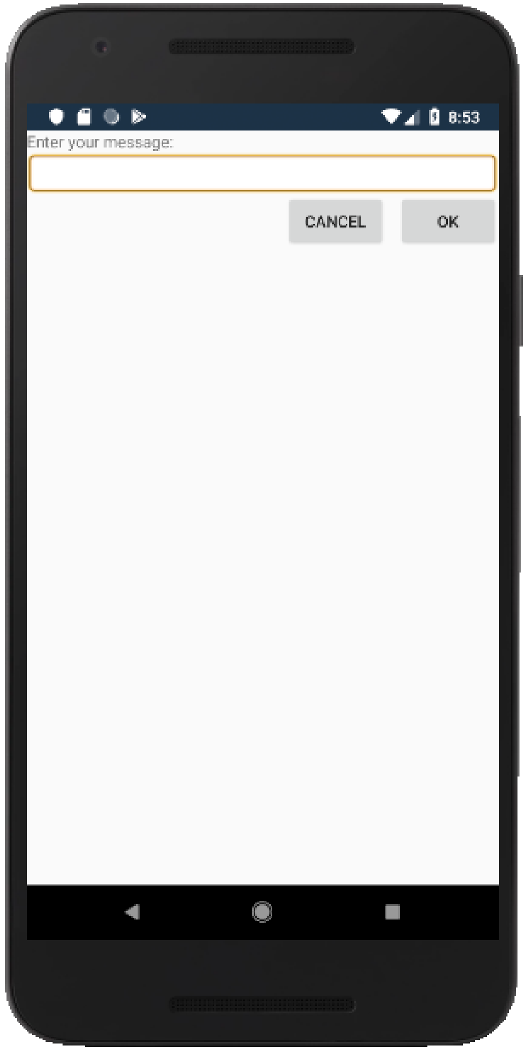
Questions about our products? Give us a call or send us a mail

Your comment:

RelativeLayout

- Items placed relatively
- Siblings or parent
- Default in Visual Studio

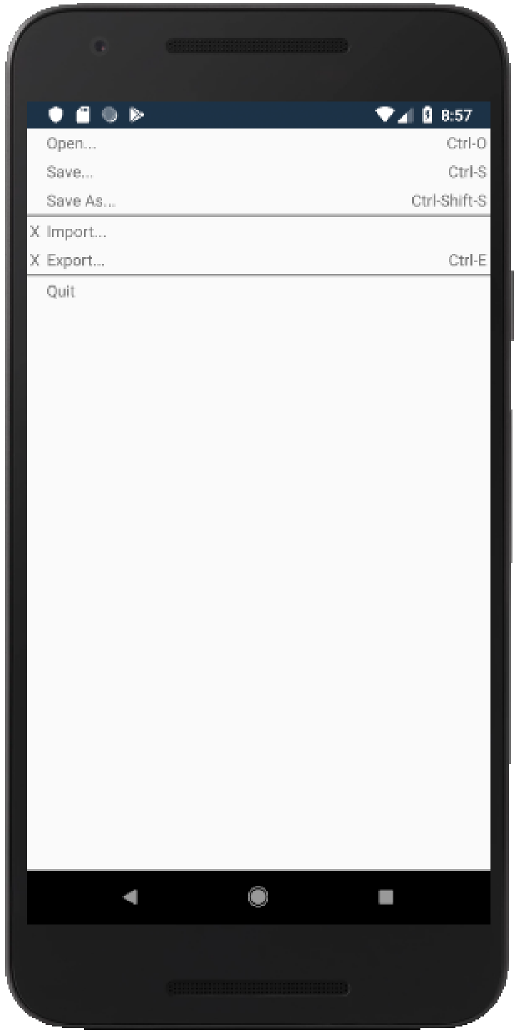
Using the RelativeLayout



TableLayout

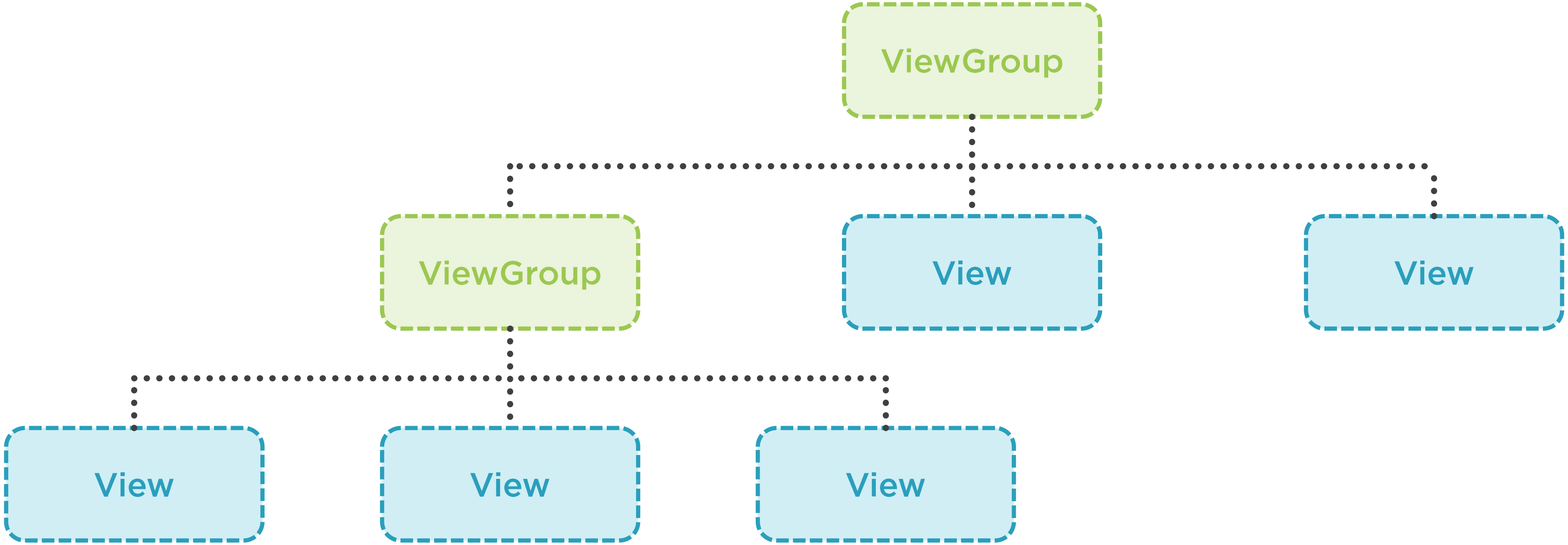
- Rows and columns
- TableRow elements

Using the TableLayout



	Open...	Ctrl-O
	Save...	Ctrl-S
	Save As...	Ctrl-Shift-S
X	Import...	
X	Export...	Ctrl-E
	Quit	

Android Layouts



Widgets

Android Widgets

Controls

Native

AXML

Built-in Widgets

- Button
- TextView
- EditText
- Spinner
- Toolbar
- FAB

Demo

Creating a layout

Adding widgets

Styling Our Application

Styling separates attributes for a view

Themes are used to style entire app

Stored in specific files

```
<resources>

  <style name="BethanyGreenText“
    parent="TextAppearance.AppCompat">
    <item name="android:textColor">#23cfa7</item>
  </style>
</resources>
```

Creating a Style

```
<TextView
  android:text="Questions about our products? Give us a
  call or send us a mail“
  android:id="@+id/callTextView“
  style="@style/BethanyGreenText"/>
```

Using a Style

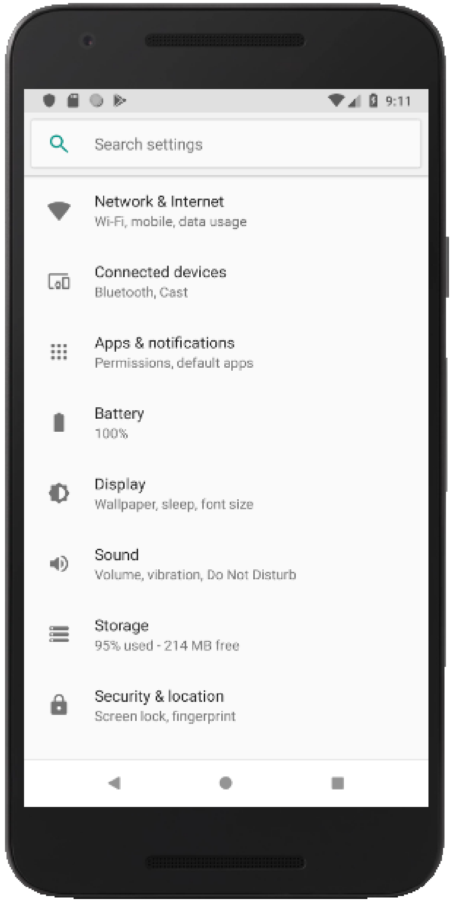
```xml
<application
  android:label="@string/app_name"
  android:theme="@style/AppTheme"
  android:icon="@mipmap/ic_launcher">

</application>
```

Using a Theme

Android Material theme

- Android 5+
- Built-in theme
- Customizable

Android Material Theme



9:11

Search settings

Network & Internet
Wi-Fi, mobile, data usage

Connected devices
Bluetooth, Cast

Apps & notifications
Permissions, default apps

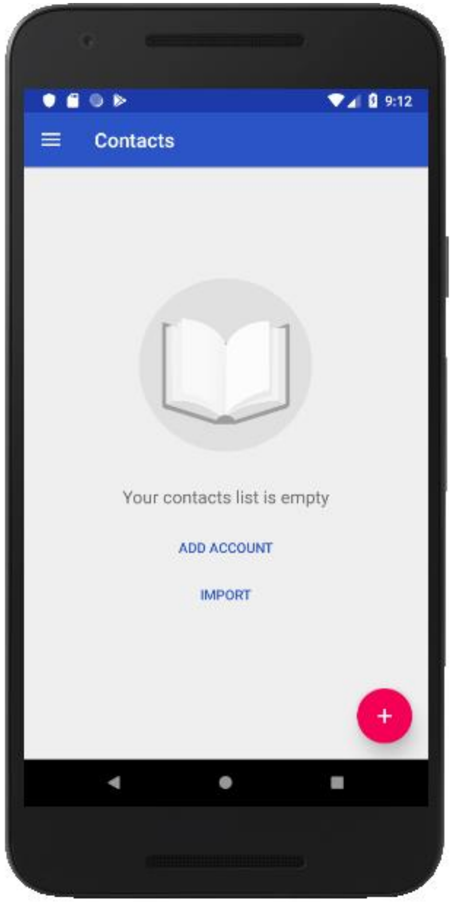
Battery
100%

Display
Wallpaper, sleep, font size

Sound
Volume, vibration, Do Not Disturb

Storage
95% used - 214 MB free

Security & location
Screen lock, fingerprint



9:12

Contacts

Your contacts list is empty

ADD ACCOUNT

IMPORT

```
<application android:label="MyApp"
android:theme="@android:style/Theme.Material.Light">
</application>
```

Enabling a Theme

colorPrimary

colorPrimaryDark

colorAccent

windowBackground

textColorPrimary

statusBarColor

navigationBarColor

Customizing the Theme

```
<resources>
  <style name="BethanysTheme"
    parent="android:Theme.Material.Light">
    <item name="android:colorPrimary">@color/bethgreen</item>
    <item name="android:colorAccent">@color/bethblue</item>
  </style>
</resources>
```

Demo

Creating a style

Using Android Material

Customizing the built-in theme

Summary

Layouts help with responsive screens

Large collection of widgets

Can be customized through styles and themes

Up next:

Working with a list