



MOBILE APPLICATION DEVELOPMENT

By: AbuBakar Ubaid

ANDROID

BASIC VIEWS



By: AbuBakar Ubaid

ANDROID

WHAT IS A **VIEW**?

View subclasses are basic user interface building blocks

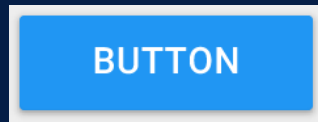
- Display text (TextView class), edit text (EditText class)
- Buttons (Button class), menus, other controls
- Scrollable (ScrollView, RecyclerView)
- Show images (ImageView)
- CheckBox
- RadioButton

etc.

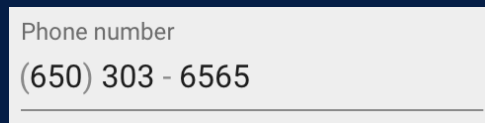


Examples of **VIEW** subclass

Button



EditText



Slider



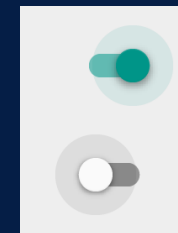
CheckBox



RadioButton



Switch



VIEW ATTRIBUTES

- Color, dimensions, positioning
- May have focus (e.g., selected to receive user input)
- May be interactive (respond to user clicks)
- May be visible or not
- Relationships to other views



Attributes

- Every View and ViewGroup object supports their own variety of XML attributes
- Some attributes are specific to a View object , these attributes are inherited by any View objects that extend this class
- Some attributes are common to all View objects, because they are inherited from the root View class
- Other attributes are considered "layout parameters "that describe certain layout orientations of the View object



ID attribute

- Any View object may have an integer ID
- uniquely identify the View within the tree
- the ID is typically assigned in the layout XML file as a string
- This attribute is common to all View objects

```
android:id="@+id/my_button"
```



Using the ID

- The syntax for an ID, inside an XML tag is:

```
android:id="@+id/my_button"
```

- Referencing an Android resource ID:

```
android:id="@android:id/my_button"
```

In the layout.xml file:

```
<Button android:id="@+id/my_button "  
        android:layout_width="wrap_content "  
        android:layout_height="wrap_content "  
        android:text="@string/my_button_text/">
```

In the java code:

```
Button myButton = (Button) findViewById(R.id.my_button);
```



Text View

- Displays text to the user and optionally allows them to edit it
- TextView is a complete text editor, however the basic class is configured to not allow editing



Edit Text

- EditText is a thin veneer over TextView that configures itself to be editable
- Properties:
 - capitalize to have the control capitalize words, the beginning of sentences
 - phoneNumber property if you need to accept a phone number
 - password property if you need a password field
 - single line by setting the singleLine property to true



Button

- Button represents a push-button widget
- Push-buttons can be pressed, or clicked, by the user to perform an action



Button XML declaration

```
<Button android:id="@+id/ccbtn1"  
        android:text="@+string/basicBtnLabel"  
        android:typeface="serif"  
        android:textStyle="bold"  
        android:layout_width="fill_parent"  
        android:layout_height="wrap_content" />
```



LECTURE – 04 “Basic Views”

THANK YOU 😊



By: AbuBakar Ubaid

ANDROID