

MOBILE APPLICATION DEVELOPMENT

CIOPCID

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BUILD YOUR FIRST ANDROID APP



CIOFCID

LAYOUT & RESOURCES FOR THE UI

- Views, view groups, and view hierarchy
- The layout editor and ConstraintLayout
- Event handling
- Resources and measurements





WHAT IS A VIEW?

View subclasses are basic user interface building blocks

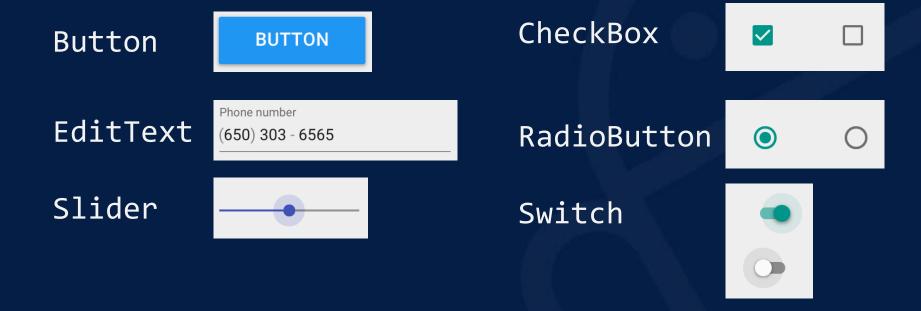
- Display text (TextView class), edit text (EditText class)
- Buttons (Button class), menus, other controls
- Scrollable (ScrollView, RecyclerView)
- Show images (ImageView)
- CheckBox
- RadioButton

etc.





Examples of VIEW subClass







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





WHAT IS A VIEW-GROUP?

ViewGroup contains child views

ConstraintLayout

Positions UI elements using constraint connections to other elements and to the layout edges

ScrollView

Contains one element and enables scrolling

RecyclerView

Contains a list of elements and enables scrolling by adding and removing elements dynamically





VIEW-GROUP for LAYOUTS

Layouts

- are specific types of ViewGroups
- contain child views
- can be in a row, column, grid, table, absolute





VIEW-GROUP for LAYOUTS







COMMON LAYOUTS CLASSES

ConstraintLayout: Connect views with constraints

LinearLayout: Horizontal or vertical row

RelativeLayout: Child views relative to each other

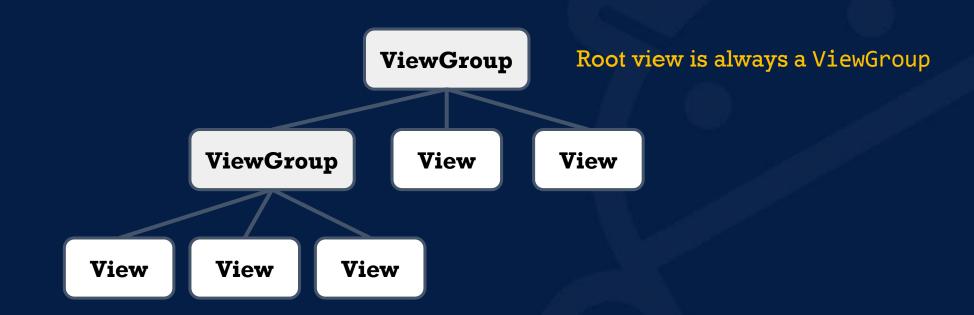
TableLayout: Rows and columns

FrameLayout: Shows one child of a stack of children





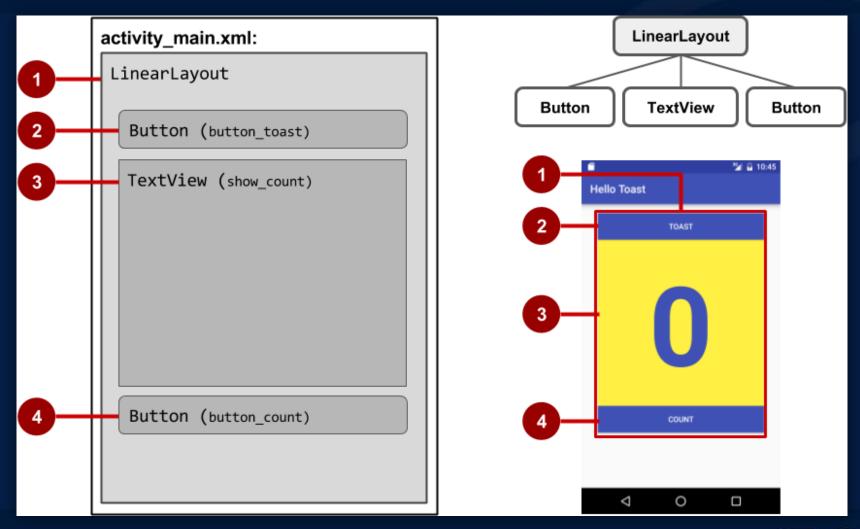
HIERARCHY OF VIEWGROUPS AND VIEWS







HIERARCHY OF VIEWGROUPS AND VIEWS





LECTURE - 03 "Build first Android App"

THANK YOU ©



