WIX3004 MOBILE APPLICATION DEVELOPMENT

VIEW AND VIEWGROUP

Created and Updated by S. Ong Semester 2, 2019/2020

LAYOUT

- Defines the structure of interface in your app.
- All elements in layout are built using a hierarchy of View and ViewGroup objects.

View:

- Draw something users can see and interact with.
- Usually called widget
- E.g., Button, TextView, EditText, ListView, ProgressBar, etc.

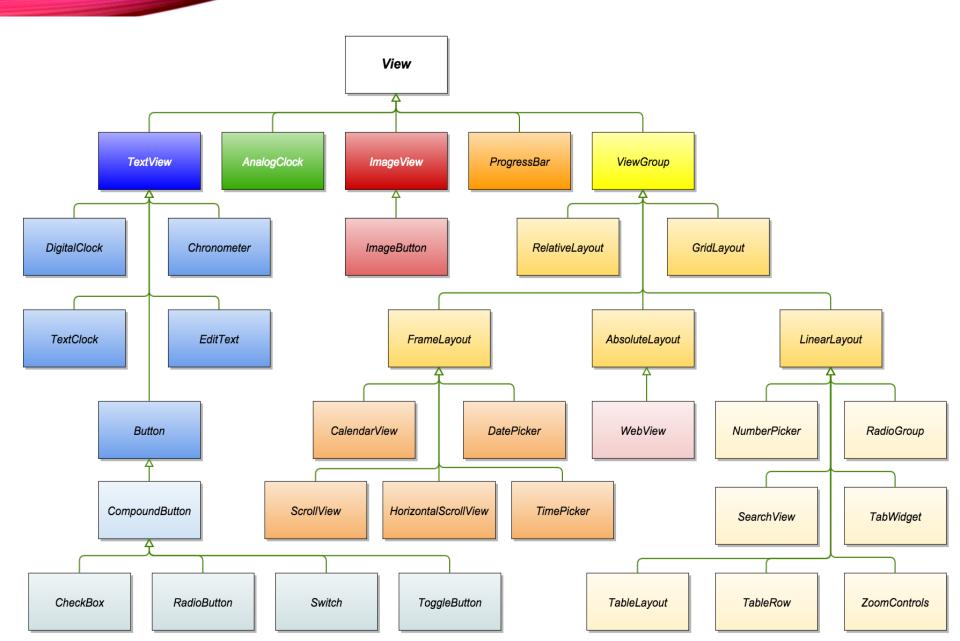
ViewGroup:

- Invisible container that defines the layout structure.
- Usually called layout
- E.g., LinearLayout and ConstraintLayout

LAYOUT

- Three ways to define layout:
 - **Declare UI elements in XML** either write it in XML or use the drag-and-drop feature in Layout's Editor
 - Instantiate elements at runtime do it programmatically
 - Or **hybrid**!

SOME SUBCLASSES OF VIEW CLASS



TODAY, WE WILL COVER...

- ✓ EditText
- ✓ Button
- ✓ TextView
- √ CheckBox
- ✓ Listener
- ✓Toast

LET'S DEVELOP SOME MOBILE APPS TOGETHER!

MOBILE APP 1 ADDITION FUNCTION

- Place two EditText Decimal on your xml layout file, with hint "Enter first number" and "Enter second number".
- 2. Place a Button with text of "ADD".
- 3. Place a TextView to the activity.
- 4. Associate an action to the Button to obtain the integer from EditText Decimal elements and perform addition. Display the result in the TextView element.
- **5. EXTRA EXERCISE**: Develop this app with or without the manual use of onClick property. Try to use Listener.

MOBILE APP 2 COLOR SELECTIONS

- 1. Place three CheckBox-es Red, Green, Blue on an activity.
- 2. Associate each selected CheckBox with toast action.

Develop > API Guides > User Interface

Toasts

A toast provides simple feedback about an operation in a small popup. It only fills the amount of space required for the message and the current activity remains visible and interactive. For example, navigating away from an email before you send it triggers a "Draft saved" toast to let you know that you can continue editing later. Toasts automatically disappear after a timeout.



MOBILE APP 2 COLOR SELECTIONS

- 3. Place a button at bottom of the checkboxes.
- 4. After multiple selections are selected, when user click the button, it will display a toast message showing all the selected selections.

Advanced level

 Change some labels or background color when different colors are selected.

SUBMISSION

 Screenshot both apps and paste it in a OneNote page.
 You can write down any note for further explanation in the page, if needed.