



Android



What is XML?

Extensible Markup Language

Defines a set of rules for encoding documents in a format that is both

human-readable and machine-readable

Used to build/design Android UI

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
    android:orientation="vertical" android:layout width="match parent"
    android:layout height="match parent">
    <View
        android:layout_width="match_parent"
        android: layout height="4dp"
        android:background="@drawable/shadow" />
    <android.support.v7.widget.RecvclerView</pre>
        android:id="@+id/ticketList"
        android:scrollbars="vertical"
        android: layout width="match parent"
        android: layout height="match parent"/>
    <android.support.design.widget.FloatingActionButton</pre>
        android:id="@+id/helpgFab"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout alignParentBottom="true"
        android:layout alignParentEnd="true"
        android:layout_alignParentRight="true"
        android: layout margin="16dp'
        android:src="@drawable/ic add white 24dp" />
</RelativeLavout>
```



TextView

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

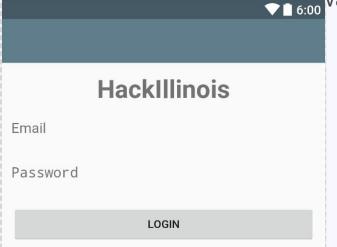
	▼ 🖺 6:00
HackIllinois 2017	
LOGIN	



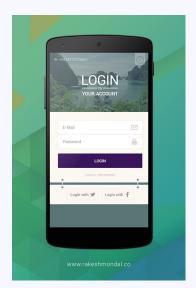
EditText

 EditText is a thin veneer over TextView that configures itself to be editable

vant the user to input text









ImageView

- Self-explanatory, displays an image in a layout
- The ImageView class can load images from various sources (such as resources or content providers)
- Android framework takes care of measurement computation





ListView

- A view that shows items in a vertically scrolling list
- The items come from the ListAdapter associated with this view





CardView and RecyclerView

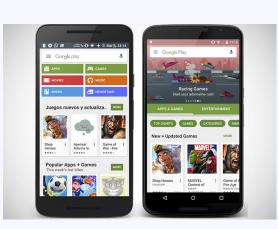
Cardview: A framelayout with a rounded corner background and shadow

RecyclerView: A flexible view for providing a limited window into a large

data set.

Essentially a super-charged listview

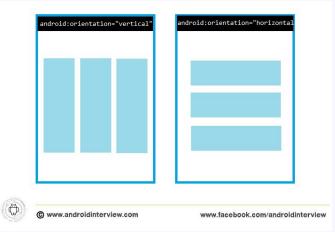
Used for displaying lists of card views





LinearLayout

- A Layout that arranges its children in a single column or a single row either vertically or horizontally
- The most straightforward layout
- Child elements are stacked below each other





RelativeLayout

- A Layout where the positions of the children can be described in relation to each other or to the parent.
- Element positions must be defined in relation to either the borders or other elements
- Makes it easier to make more complex designs







