



Activity Layouts

Upon completion of this module, a student will be able to

- know what a layout is and how to use it
- understand the difference between views and view groups
- use views and view groups to arrange a layout
- create multiple layouts for the same activity



Assignment

- Task
 - For this project you'll build a single page app that will display static content (content that is hard coded and doesn't change).
- Repo
 - https://github.com/LambdaSchool/Android_Layouts
- Submission
 - Compress the project directory into a zip archive and then send it to your PM in a DM
- Challenge
 - Try to add the data from your entry programmatically.





A Student Can

know what a layout is and how to use it

Layouts

- Nested Views
- XML
- loaded by the activity
- different versions of layouts

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    ...
    tools:context=".profile.DetailsActivity">

    <LinearLayout
        ...
        android:orientation="horizontal">

        <LinearLayout
            ...
            android:layout_weight="1">

            <ImageView
                ...
                android:src="@drawable/k000388" />

            </LinearLayout>

            ...

        </LinearLayout>

        ...
    </LinearLayout>
```



A Student Can

understand the difference between views
and view groups

Views and ViewGroups

- View
 - a UI component
- ViewGroup
 - a container that holds UI components

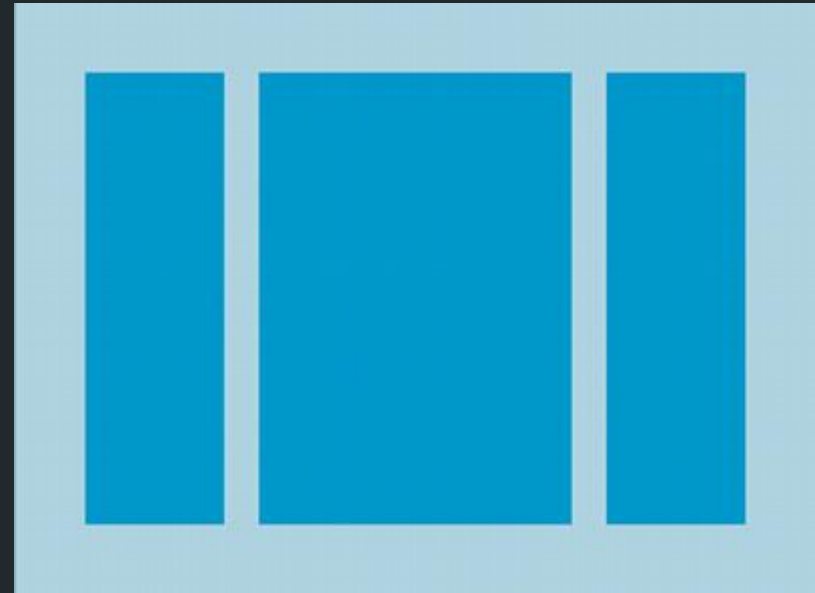


A Student Can

use views and view groups to arrange a layout

Linear Layout

- Vertical or Horizontal
- Order of definition
- Use “layout_weight” to distribute space



Relative Layout



- Relative to other views
- Anchor view must be defined beforehand
 - can be placed above that view

Scroll View

- Allows for layouts larger than the screen
- Only single child

```
<ScrollView
...
    android:padding="5dp">

    <LinearLayout
        ...
        android:orientation="vertical">

        <TextView
            android:id="@+id/profile_name"
            ...
            android:textStyle="bold" />

        <TextView
            android:id="@+id/profile_party"
            ...
            android:textStyle="normal" />

        <TextView
            android:id="@+id/profile_district"
            ...
            android:textStyle="normal" />

    </LinearLayout>

</ScrollView>
```



A Student Can

create multiple layouts for the same activity

Multiple Layouts

- Different Configurations
- Look great in all