

INTRODUCTION TO INTENT, LAYOUTS & RECYCLERVIEW

How to do List Views.

Intents

- an abstract description of an operation to be performed.
 - *startActivity(new Intent(this, SecondActivity.class));*
- can include an Action, Category, Data to an intent
- we can also add Extras using a key, value system.
 - *intent.PutExtra("KEY", parcelableObject);*

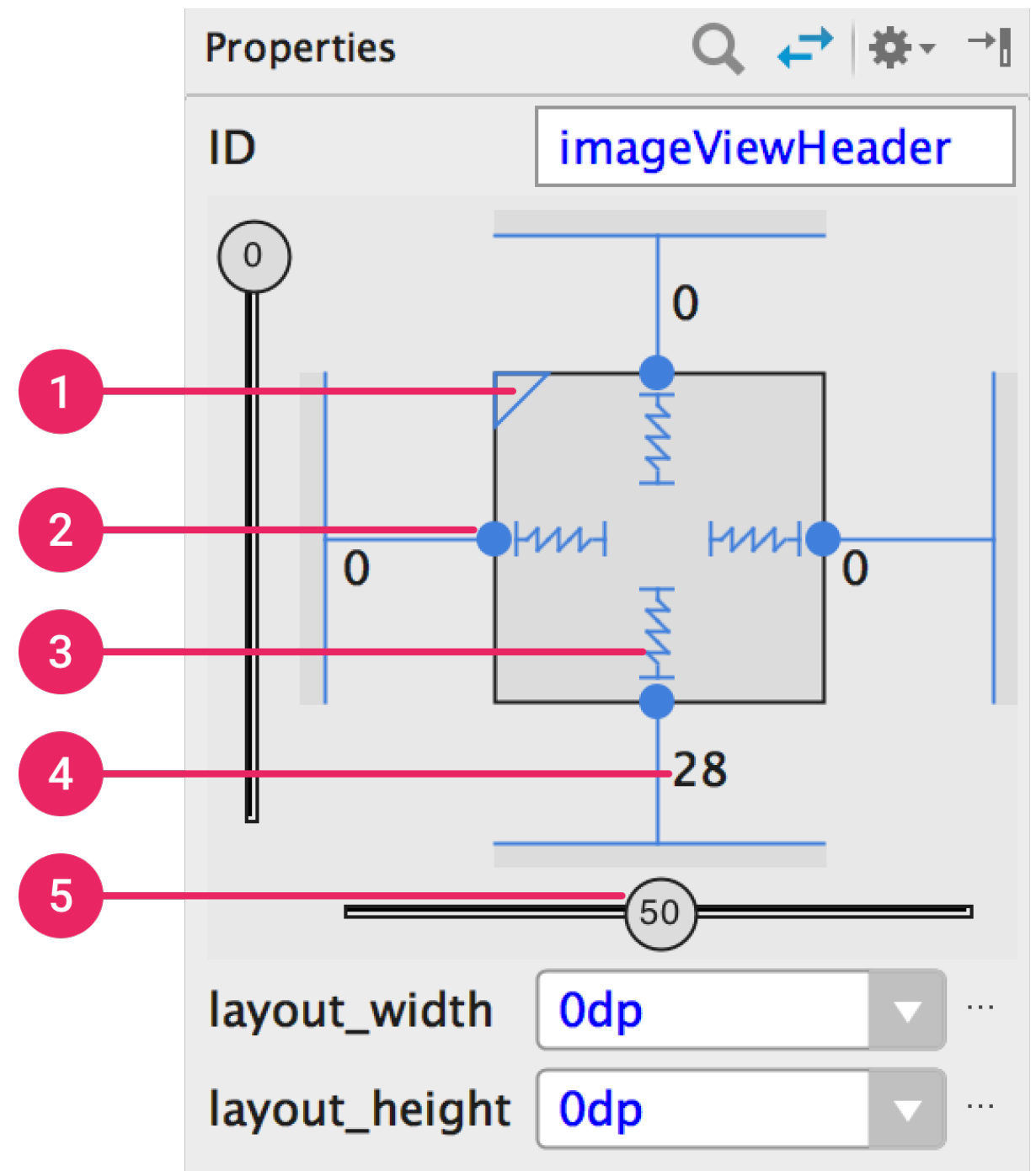
LinearLayout

- is a view group that aligns all children in a specified (*horizontal/vertical*) direction.
- all children are stacked one after another in a specified direction (*horizontal/vertical*).



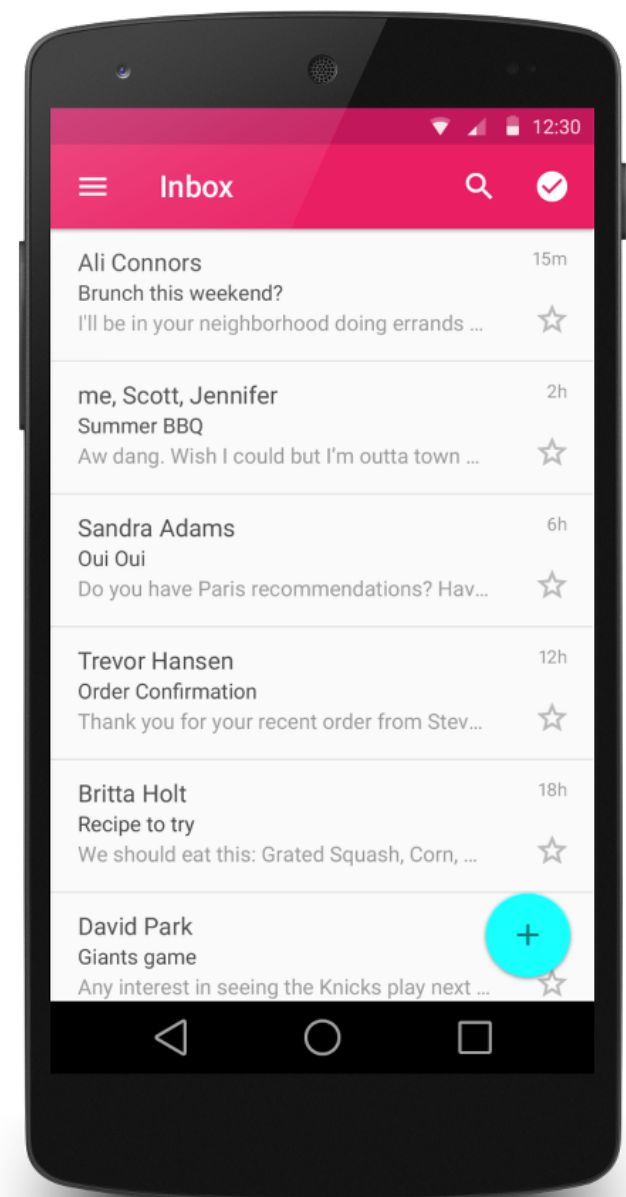
ConstraintLayout

- is the **new** RelativeLayout.
- 4 properties
 - Height/Width ratio (1)
 - Edge constraints (4)
 - View Size (2, 3)
 - Horizontal/Vertical bias (5)



RecyclerView

- is the *new ListView* in Android.
- 4 things to customise
 - a resource adapter
 - a layout – usually LinearLayout
 - a view holder (a required optimisation)
 - whether fixedSize (usually yes, a minor optimisation)



Live Coding

- Create an app which shows a list of students with their names, gender and images.

Task

- Please extend the previous app with a second activity showing the student details in a 2nd view.

Questions ???

Sources

- <https://developer.android.com/training/constraint-layout/index.html>
- <https://developer.android.com/reference/android/support/constraint/ConstraintLayout.html>
- <https://developer.android.com/reference/android/support/v7/widget/RecyclerView.html>
- <https://developer.android.com/training/material/lists-cards.html>
- <https://www.binpress.com/tutorial/android-l-recyclerview-and-cardview-tutorial/156>