

# INTRODUCTION TO INTENT, RECYCLERVIEW

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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);*

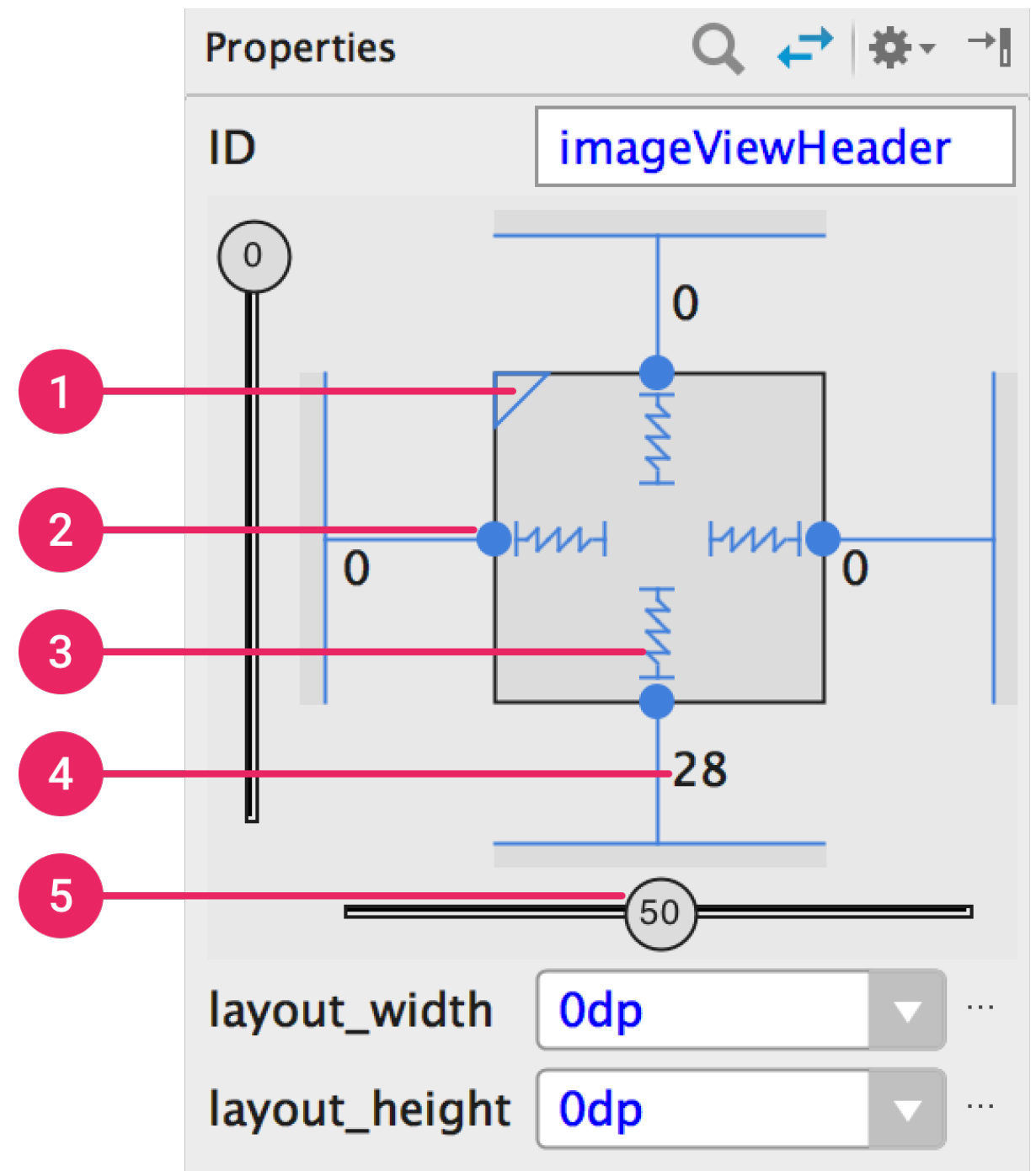
# LinearLayout

- 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*).



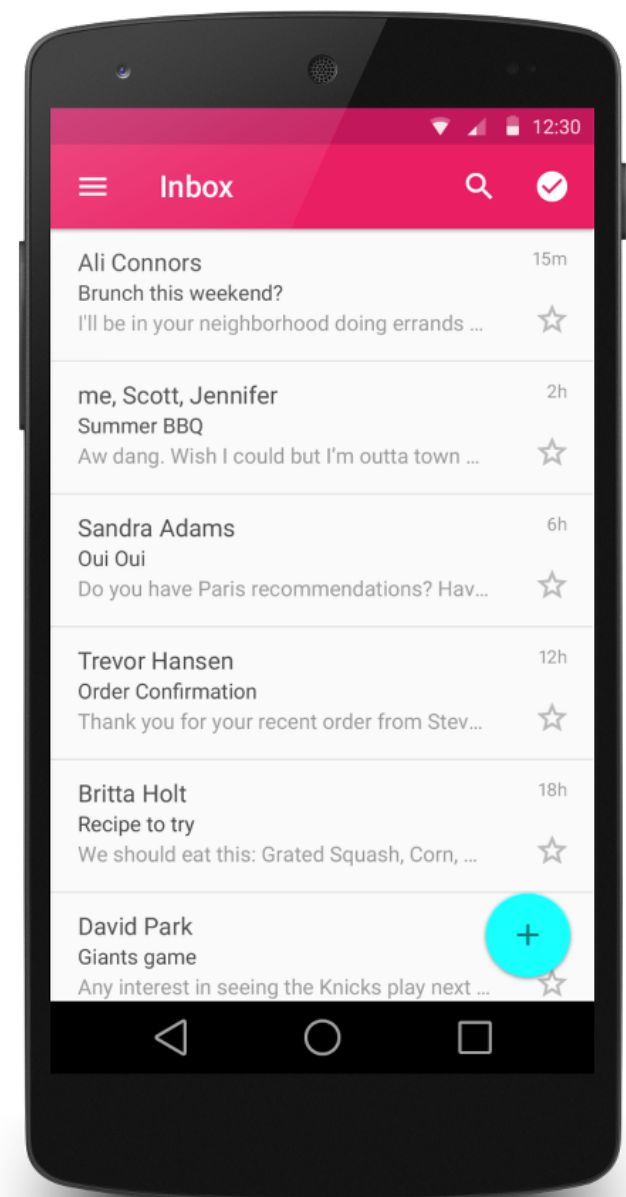
# ConstraintLayout

- 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 2<sup>nd</sup> view.

Questions ???



# Sources

- <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>