LINEAR LAYOUT & DATA BINDING

intro to MVVM Architecture

Important Announcements

 All Thursday classes will be held at St. Oberholz (Rosenthaler Str. 72A, 10119, Berlin)

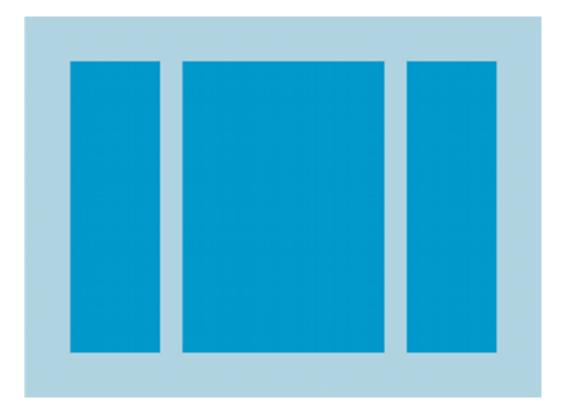
Free Android course in <u>udacity.com</u> – for EU residents.

So far ...

Questions???

LinearLayout

- It's the simplest Android layout
- Can be an easy layout to use for single view Activities
 - e.g. Recycler Views
- It has 2 orientations horizontal (default) and vertical
- limited attributes, generally used width, height, weight & gravity



Data Binding

- Declarative layouts and minimize the View glue code
- compatible from Android 2.1+
- enable it from your gradle file
 - dataBinding.enabled = true
- and your layout code needs to be in <layout /> tags
- you also have <data /> & <variable /> tags for data injection.

Current View code

- add an View id in xml
 - <view android:id="@+id/viewA" />
- findViewByID in Java code
 - findViewById(R.id.viewA)
- then finally you set values in View
 - textView.setText("text");

Data Binding Class

- <layout /> tags create a Data Binding class while compiling
- Class name is camel cased version of the layout name with Binding appended after it.
- use the DataBindingUtil class to setContentView or inflate
- and then use the retrieved DataBinding class to set the view Model.

MVVM

- one of the many MV^* application architecture patterns.
- is compatible with Android Data Binding for simple apps.
- you have 3 classes of Components: -
 - models Business entities
 - views Framework views
 - ViewModels the model for the views.

Live Coding

 We will create a simple app showing data binding usage along with Linear Layout

Task

Please extend the app with 2 way data binding.

Questions ???

Sources

- https://medium.com/@georgemount007
- https://developer.android.com/topic/libraries/databinding/index.html
- http://www.vogella.com/tutorials/ AndroidDatabinding/article.html