

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 udacity.com – 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/data-binding/index.html>
- <http://www.vogella.com/tutorials/AndroidDataBinding/article.html>