Android Development Lab

■Course no.: 61985

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■Topics: RecyclerView & Adapter



The RecyclerView widget

- A container view (ViewGroup) that is populated with widgets items <u>during run time</u>
- each item inside the AdapterView can be:
 - Basic widget (like ImageView...),
 - A layout with several widgets, or...
 - A fragment
- The RecyclerView must work in conjunction with an **Adapter** object that will be discussed on next slide ...



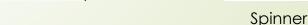
Details about the RecyclerView in this <u>link</u>...

Grid

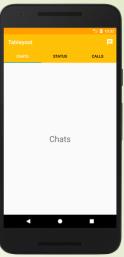


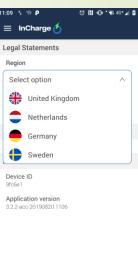


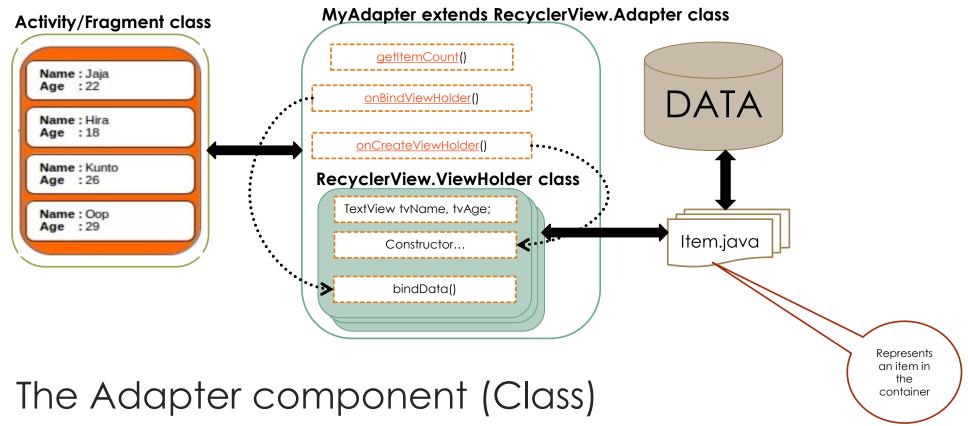
List





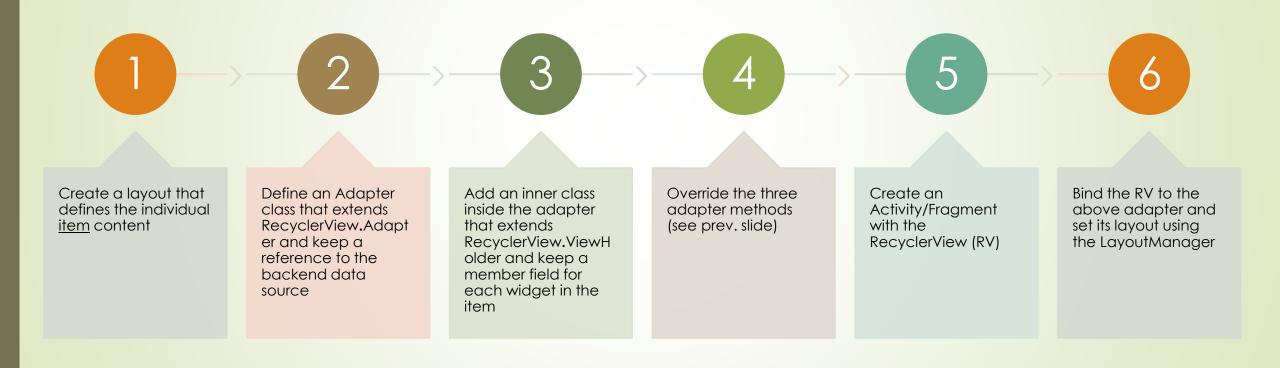






- ► The middle block between the 'presentation' and the 'data source'
- Must define an inner (non static) class that extends from ViewHolder
 - ► Holds the widgets references inside each item
- The Adapter (outer class) must override three methods:
 - 1. getItemCount()
 - 2. onCreateViewHolder(...)
 - 3. onBindViewHolder(...)

What are the steps when working with RecyclerView?



This week assignment – EX7

- An Application with 1 Activity that has 1 fragment that has a RecyclerView, exactly like in the image on the right...
- Each item includes:
 - ImageView of the country flag
 - TextView of the country name
 - TextView of the country population
- LongClick on an item will remove it from the list
 - Where the listener should be defined?
- A bunch of files are provided to you to facilitate the creation of this project, see next slide...



EX7 Helper files ...

- cflags.zip that contains all the countries flags images
 Should be imported into the 'drawable' folder
- countries.xml that contains information about each country Should be imported into 'app\assets' folder
- 3. Country.java represent a country POJO
- 4. CountryXMLParser.java that has a static method that parses the countries xml file and return an array of Country objects

Should be called by the adapter

