

Dati e View

Layout dinamici

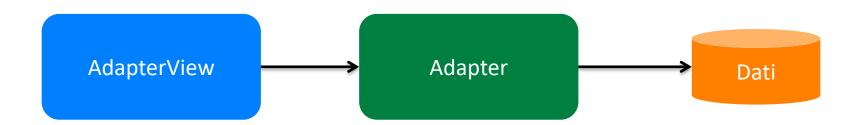


Problema

spesso i dati non disponibili se non in esecuzione e quindi devo gestire le view dinamicamante

Pattern Proposto:

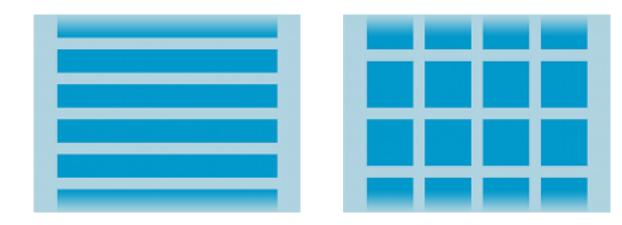
Il layout (AdapterView) affida ad un oggetto Adapter la creazione delle view per visualizzare i dati



AdapterView



• ListView, GridView, RecyclerView, etc.



handroid.widget.AdapterView

Adapter



- Adapter/ListAdapter
 - ArrayAdapter<T>, CursorAdapter, SimpleAdapter, RecyclerView.Adapter, etc.

- Adattano dinamicamente i dati alla "vista" corrente
 - gestisce i dati (organizzati come lista)
 - se cambia la visuale vanno cambiante le view
- Gestisce le view che mostrano il singolo dato
 - se cambiano il dato va aggiornata le view

Interfaccia Adapter



Chiedo all'adapter una view

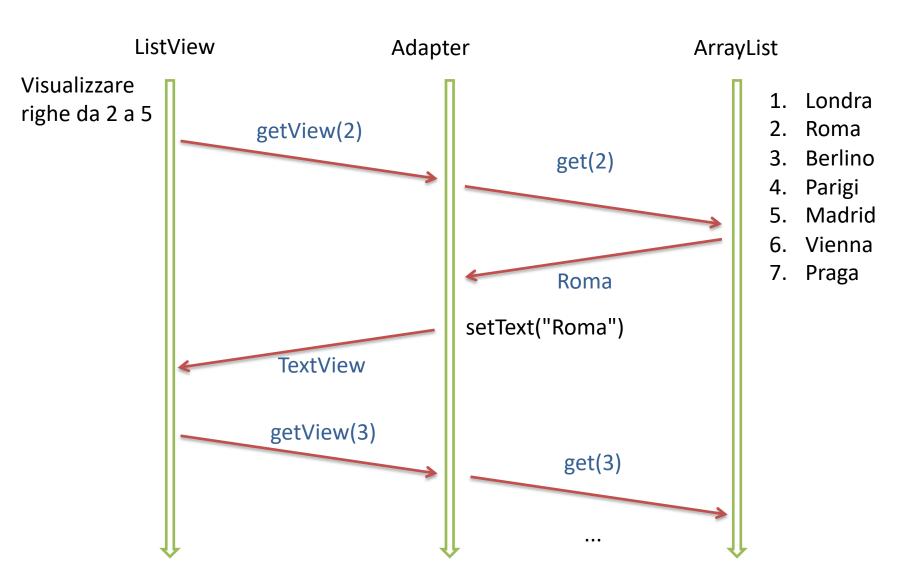
View getView (int position, View convertView, ViewGroup parent)

- Gestione dei dati
 - Object getItem (int position)
 - long getItemId (int position)
 - int getCount ()
 - boolean isEmpty ()

- Cambio dei dati
 - void registerDataSetObserver (DataSetObserver observer)
 - void unregisterDataSetObserver (DataSetObserver observer)
- Base Adapter
 - notifyDataSetChanged();

Interazioni





ListView

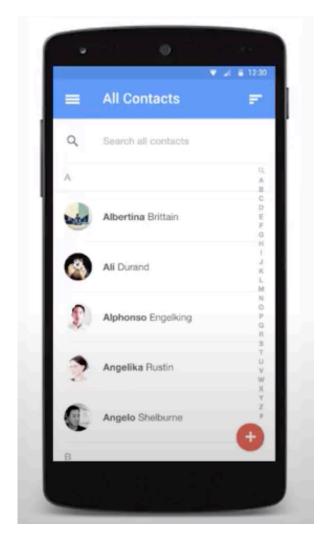


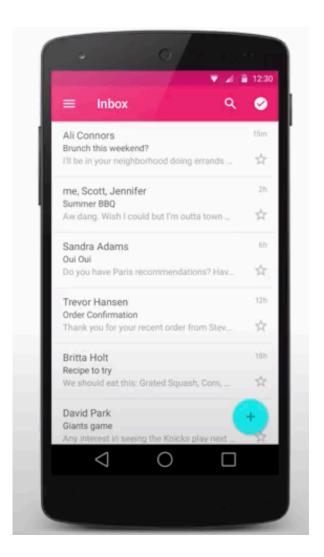
- uso di un ArrayAdapter con una ListView
 - progetto ArrayAdapterTest



RECYCLERVIEW E CARD VIEW









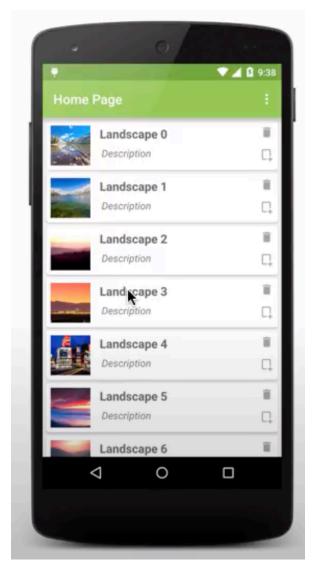




CardView

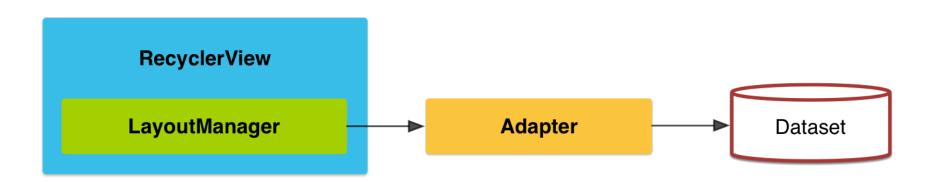




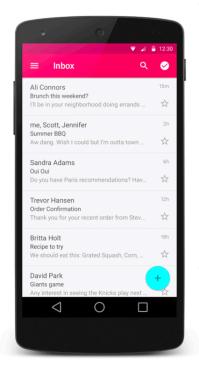




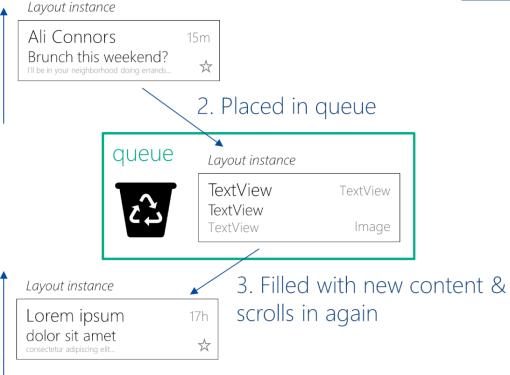
- LayoutManager
 - LinearLayoutManager
 - GridLayoutManager
 - StaggeredGridLayoutManager







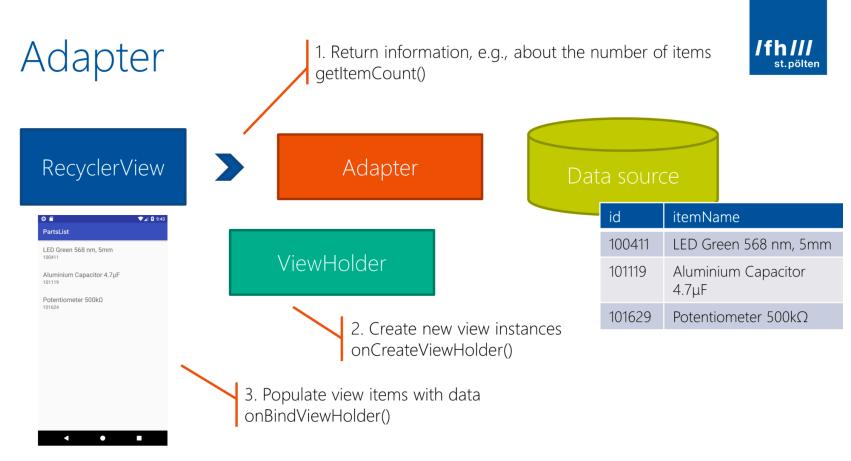
1. Layout instance scrolls out of view



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Image credits: Google, https://developer.android.com/training/material/lists-cards.html





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