

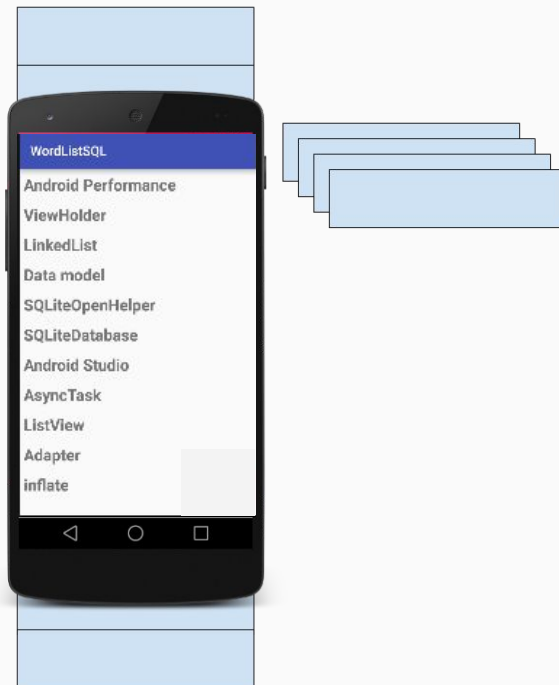
# RecyclerView



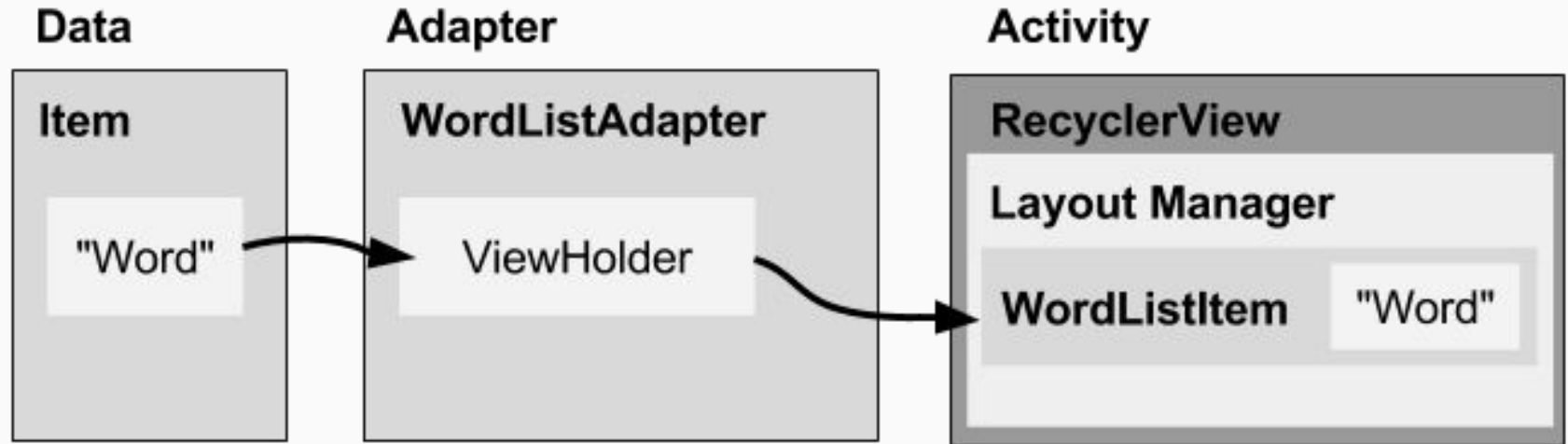
# RecyclerView

RecyclerView est un conteneur scrollable pour afficher une grande quantité de donnée de façon efficace:

- Il crée un nombre limité de **Views**
- Il les réutilise en remplaçant les données et les listeners (re-bind) sans les recréer
- Met à jour les données rapidement



# Composants



# Add dependency to app/build.gradle

Add RecyclerView dependency to build.gradle if needed:

```
dependencies {  
    // ...  
    implementation 'androidx.recyclerview:recyclerview:1.0.0'  
    // ...  
}
```

# Add RecyclerView to XML Layout

```
<android.support.v7.widget.RecyclerView  
    android:id="@+id/recyclerview"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    app:layoutManager="android.support.v7.widget.LinearLayoutManager" />
```

# Create layout for 1 list item

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">  
    <TextView  
        android:id="@+id/word"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content" />  
</LinearLayout>
```

```

class WordListAdapter(val wordList: Word)
: RecyclerView.Adapter<WordListAdapter.WordViewHolder>() {
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): WordViewHolder {
        // Create the empty cell
    }
    override fun getItemCount(): Int {}

    override fun onBindViewHolder(holder: WordViewHolder, position: Int) {}

    inner class WordViewHolder(itemView: View) : RecyclerView.ViewHolder(itemView) {
        fun bind(word: Word) {} // Fill the cell with info
    }
}

```

```

val wordList = listOf("word#1", "word #2")
val adapter = WordListAdapter(wordList)
recyclerview.adapter = adapter
recyclerview.layoutManager = LinearLayoutManager(this)
// on peut aussi utiliser app:layoutManager="..."

```