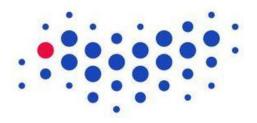
## Практикум на ЭВМ.

Программирование под Android

Занятие 3





# LayoutInflater

## LayoutInflater

 Создаёт иерархию объектов интерфейса из файла ресурса.

## Списки

- Данные не помещаются на экран
- Только 1 дочерний элемент

```
<ScrollView
    android:layout width="match parent"
    android:layout height="match parent">
    <LinearLayout
        android:layout width="match parent"
        android:layout height="wrap content"
        android:orientation="vertical">
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content" />
        <TextView
            android:layout width="wrap content"
            android:layout height="wrap content" />
    </LinearLayout>
</ScrollView>
```

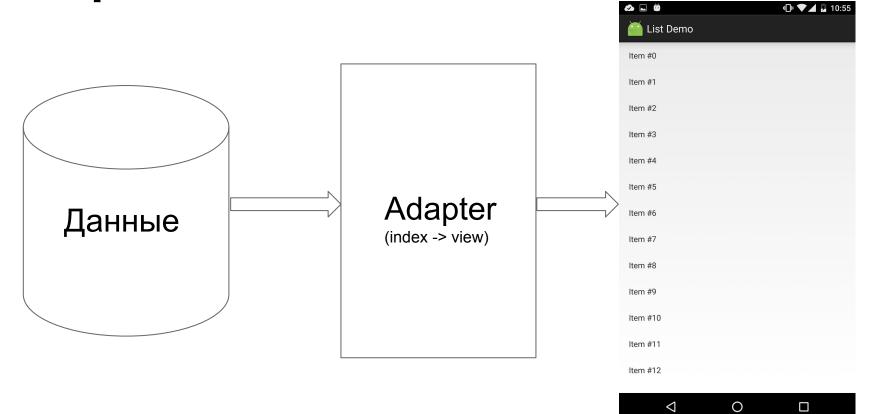
- Много данных:
  - о Медленно
  - Много ОЗУ

## RecyclerView

- Пришёл на смену ListView
- build.gradle:

```
dependencies {
    compile "com.android.support:recyclerview-v7:24.2.1"
}
```

## **Adapter**



## **Adapter**

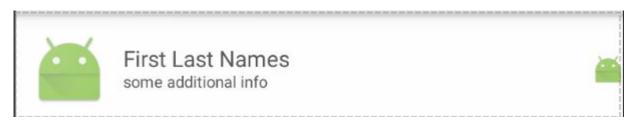
```
public static abstract class Adapter<VH extends ViewHolder>
```

private class SimpleRecyclerAdapter extends

RecyclerView.Adapter<SimpleRecyclerAdapter.ViewHolder>

#### ViewHolder

• Настройка одной ячейки



```
public void bindView(View view, int position) {
    TextView name = view.findViewById(R.id.name);
    TextView additional = view.findViewById(R.id.additional);
    ImageView image = view.findViewById(R.id.image);
    ...
}
```

#### ViewHolder

```
class ViewHolder extends RecyclerView.ViewHolder {
   final TextView firstLine;
   final TextView secondLine;
   public ViewHolder(View itemView) {
        super(itemView);
        firstLine = (TextView)itemView.findViewById(R.id.fist line);
        secondLine = (TextView)itemView.findViewById(R.id.second line);
```

### Переиспользование View

### Переиспользование View

```
@Override
public void onBindViewHolder(ViewHolder holder, int position) {
    String str = items.get(position);

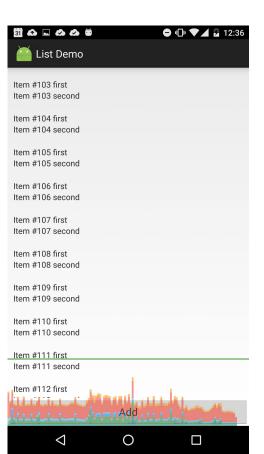
    holder.firstLine.setText(str + " first");
    holder.secondLine.setText(str + " second");
}
```

## Обработка нажатий

```
public ViewHolder(View itemView) {
    super(itemView);
    // ...
    itemView.setOnClickListener(clickListener);
@Override
public void onClick(View v) {
    ViewHolder holder =
        (ViewHolder)recyclerView.getChildViewHolder(v);
    int position = recyclerView.getAdapterPositionFor(holder);
```

## Сравнение





#### **ItemDecorator**



#### **ItemDecorator**

```
public final class DividerItemDecorator extends RecyclerView.ItemDecoration {
    @Override
    public void getItemOffsets(Rect outRect, View view,
        RecyclerView parent, RecyclerView.State state) {
    @Override
    public void onDrawOver(Canvas c, RecyclerView parent,
        RecyclerView.State state) {
recyclerView.addItemDecoration(new DividerItemDecorator(this));
```

## LayoutManager

- LinearLayoutManager
- GridLayoutManager

```
recyclerView.setLayoutManager(new LinearLayoutManager(this));
```

# Вопросы?