

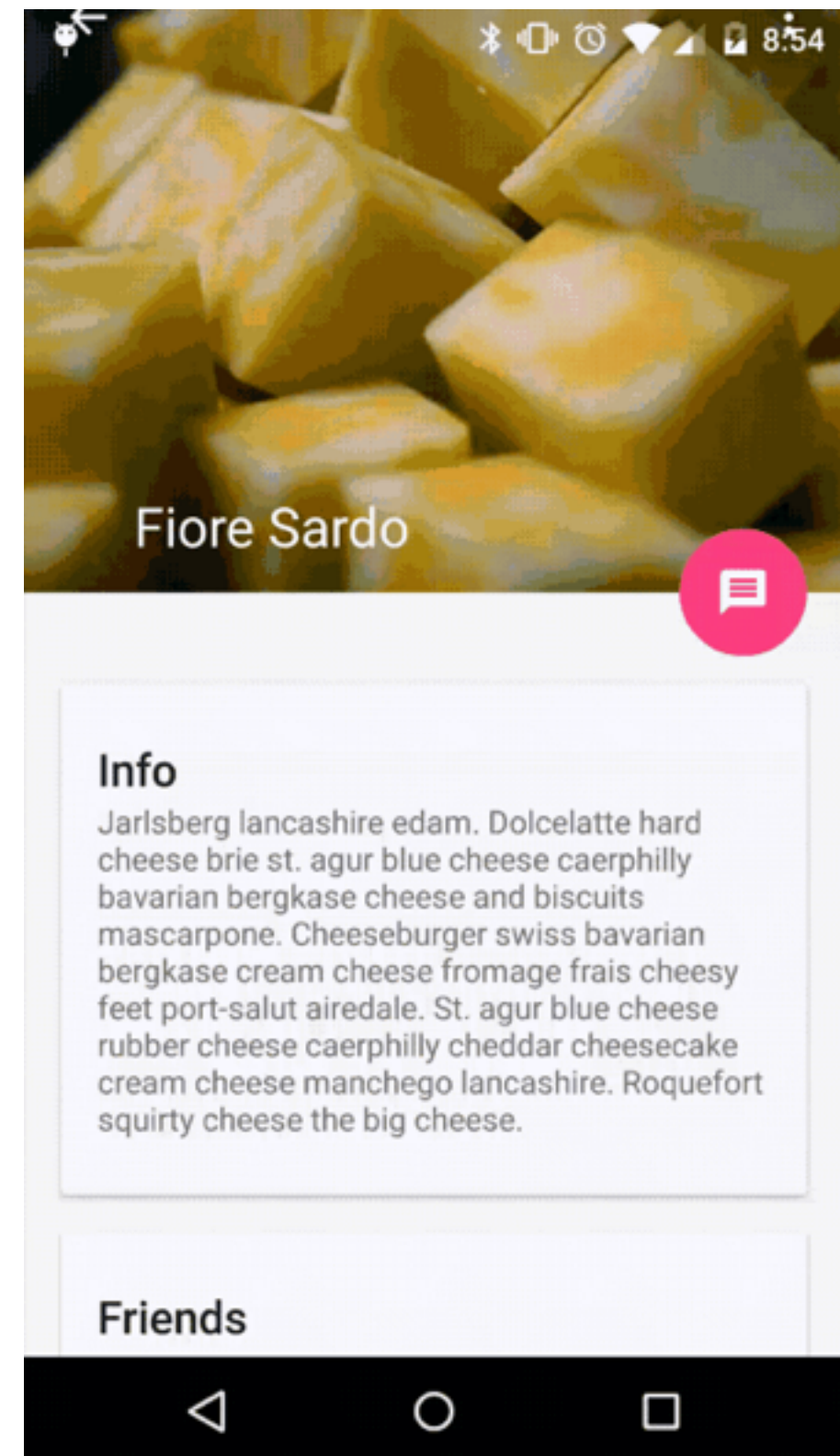
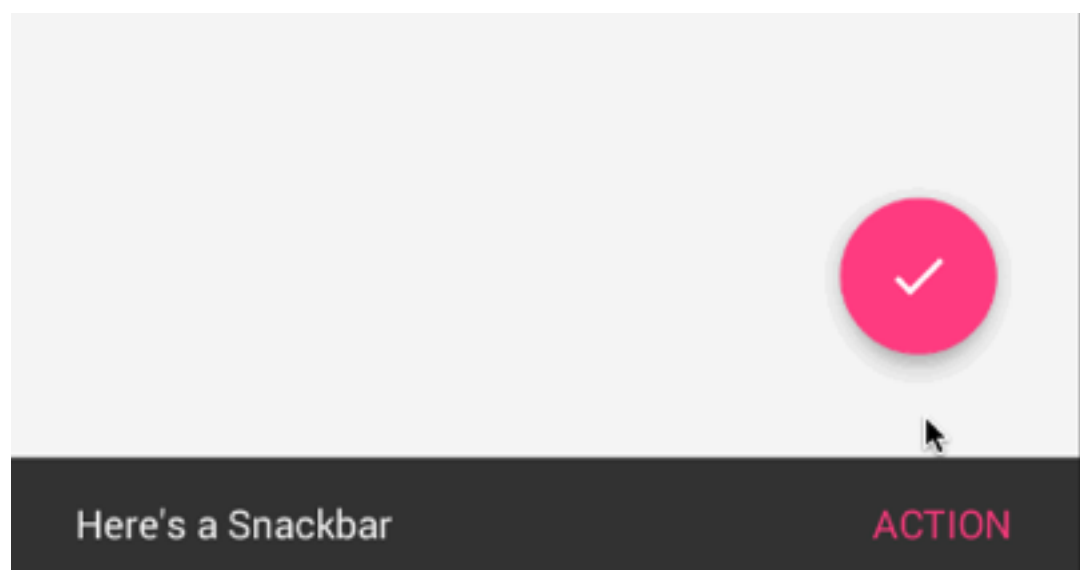
Material design

RecyclerView & CoordinatorLayout

RecyclerView

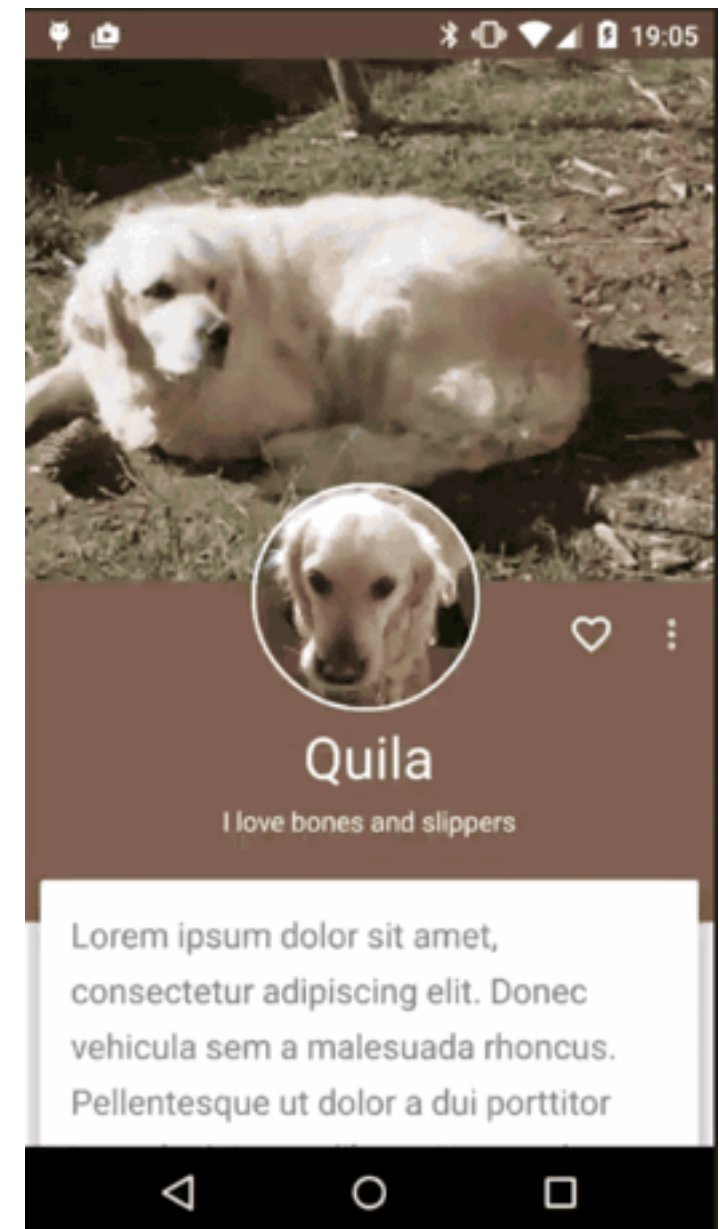
- Pokročilejší ListView (3 - LM, NS, ID/IA)
- Adapter, ViewHolder, LayoutManager - povinné
- ItemDecoration, ItemAnimator - volitelné
- Příklad!

- CoordinatorLayout
- AppBarLayout
- Snackbar
- FAB



CoordinatorLayout

- FrameLayout, ale... ! (chytřejší)
- Behavior (anotace / xml)
 - layout/scroll
 - layoutDependsOn,
onDependentViewChanged
- Příklad!



- Support Design Library
- <https://www.google.com/design/spec/>

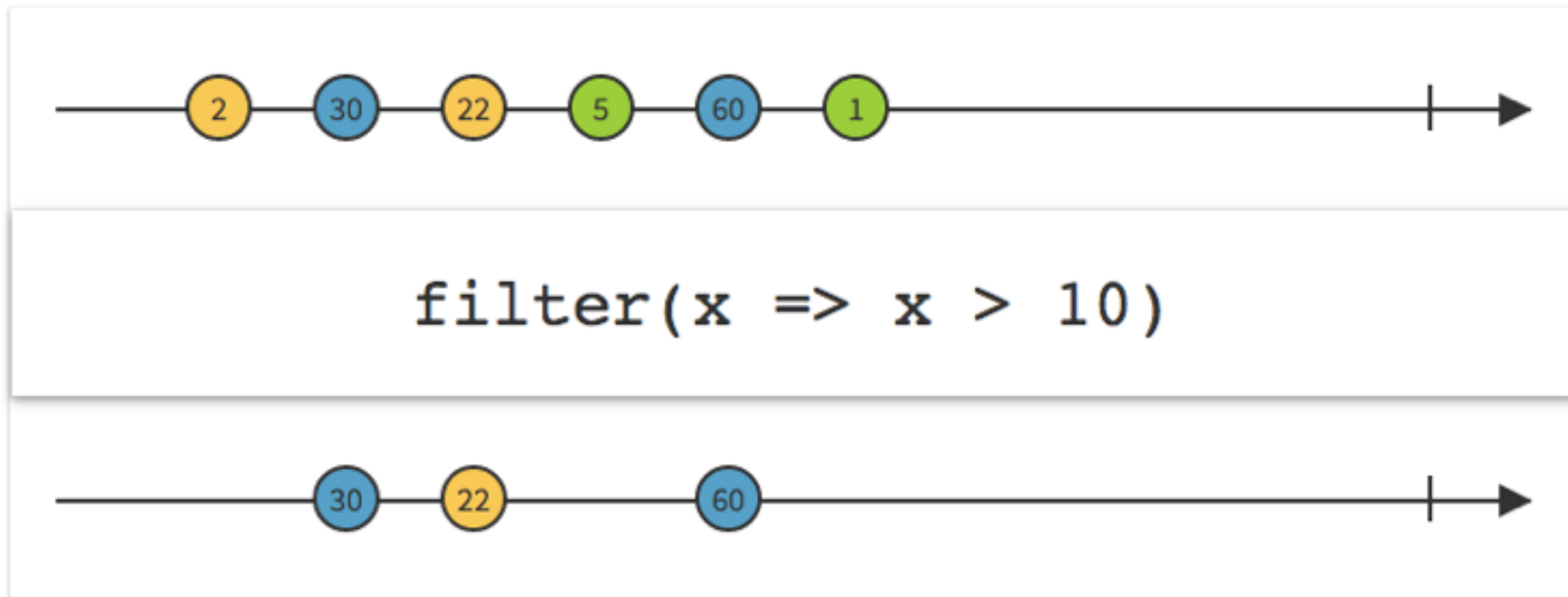
6 věcí, o kterých by
Android vývojář měl
vědět

Butterknife

```
class ExampleActivity extends Activity {  
    @Nullable @Bind(R.id.title) TextView title;  
    @Bind(R.id.subtitle) TextView subtitle;  
    @Bind(R.id.footer) TextView footer;  
  
    @Override public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.simple_activity);  
        ButterKnife.bind(this);  
        // TODO Use fields...  
    }  
}  
  
@OnClick(R.id.submit)  
public void submit() {  
    // do something  
}
```

RxJava

- Stream



- Observable, Subscriber
- <http://rxmarbles.com/>

K čemu se to dá použít?

- Čtverný klik
- 3x API request (čekáme na dokončení všech)
- ...
- Příklad!

```
@GET("/api/v2/driver/{driver_id}")
Observable<Driver> getDriverRx(
    @Path("driver_id") String driverId
);
```

```
Observable<GoogleMap> getMapObservable(
    SupportMapFragment mapFragment,
    @Nullable GoogleMap oldMap
);
```

```
Observable.zip(
    Api.get().getDriverRx(ride.driver),
    Api.get().getCarPositionRx(ride.nid),
    MapHelper.getMapObservable(mapFragment, map),
    new Func3<Driver, List<CarPosition>, GoogleMap, Object>() {
        @Override public Object call(Driver d, List<CarPosition> cp, GoogleMap m) {
            // handle result
            return null;
        }
    })
    .observeOn(AndroidSchedulers.mainThread())
    .subscribeOn(Schedulers.io())
    .subscribe(new Action1<Object>() {
        @Override public void call(Object o) {
            // do something
        }
    });
```

Zdroje informací

- www.vogella.com
- Youtube - Perf Matters, Android Developers
- <http://android-developers.blogspot.cz/>
- Jake Wharton (Square)
- androidarsenal.com

Plurals

```
<plurals name="cars">  
  <item quantity="one">%d auto</item>  
  <item quantity="few">%d auta</item>  
  <item quantity="other">%d aut</item>  
</plurals>
```

```
getResources().getQuantityString(R.plurals.cars, 2, 2);
```



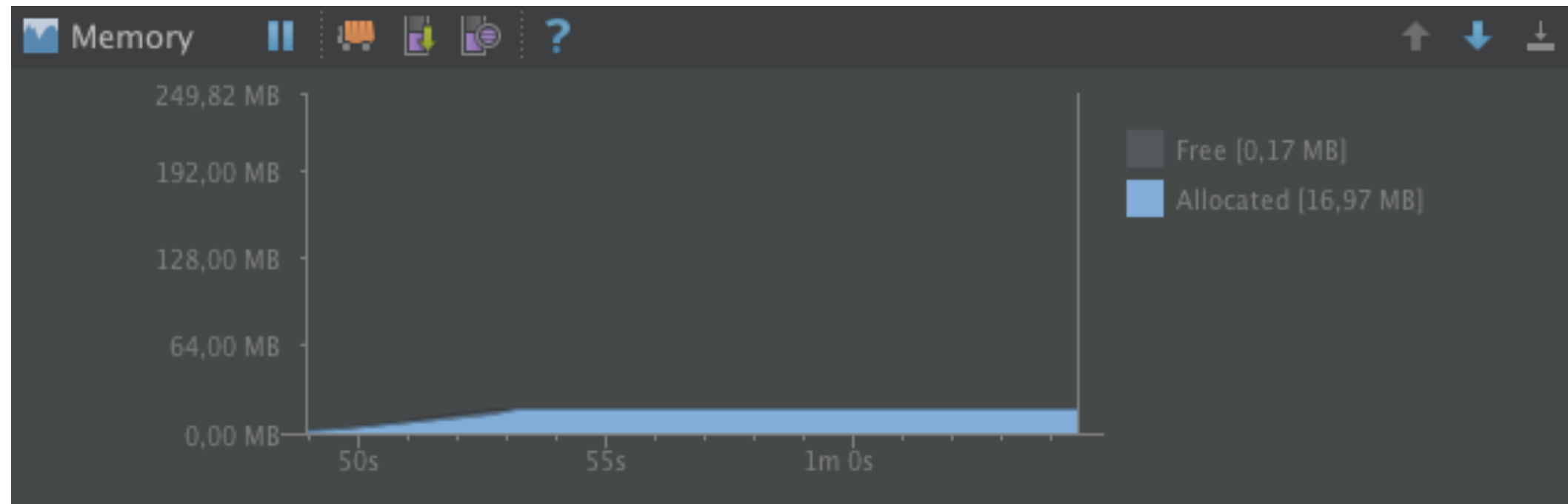
The diagram consists of two black arrows. The first arrow originates from the second '2' in the Java code and points to the 'other' quantity rule in the XML. The second arrow originates from the same '2' and points to the '%d' placeholder in the 'other' rule.

Android Lint

- Utilita pro prozkoumání složky s projektem za účelem hledání častých chyb a možností optimalizace. Řeší např.:
 - Missing translations (and unused translations)
 - Layout performance problems (all the issues the old layoutopt tool used to find, and more)
 - Unused resources
 - Inconsistent array sizes (when arrays are defined in multiple configurations)
 - Icon problems (like missing densities, duplicate icons, wrong sizes, etc)
 - Usability problems (like not specifying an input type on a text field)
 - Manifest errors

Memory profiling

- Allocation Tracker
- Dump Java Heap



- Lukáš Sztefek
 - lukas.sztefek@thefuntasty.com
 - lukas.sztefek@gmail.com

