ROBOGUICE

Bringing Best Practices to Android
One App at a Time

ANDROID HAS MUCHTO LIKE

- Large Userbase
- Active Development
- Open Source

BUT ANDROID IS IN YOUR FACE

• It is nearly impossible to write a class that isn't instantly recognizable as an Android class.

ANDROID BOILERPLATE = BUGS

The less code you write, the fewer bugs

HOW DOES ROBOGUICE HELP?

INJECTION

- Widely used
- Robust principles
- Now coming to other languages

INJECTION EXAMPLE

- First there were logging objects
- Then there were static factories
- Now: injection

INJECTVIEW

```
    class MyActivity extends RoboActivity {
    @InjectView(R.id.text2) TextView nameView;
    ...
    }
```

INJECTVIEW

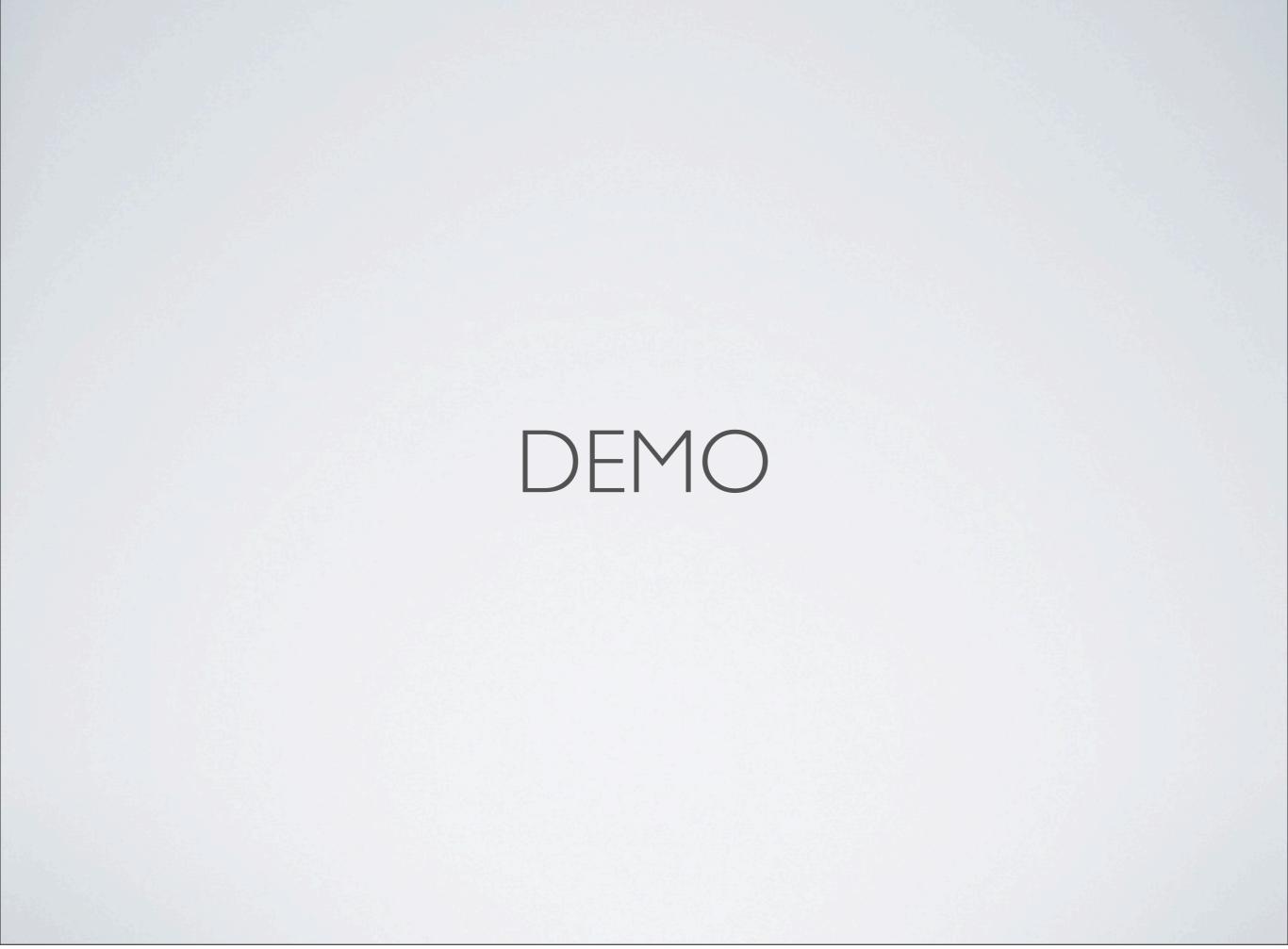
- TypeSafe in that it fails fast
- Removes boilerplate from onCreate

INJECT RESOURCE, EXTRAS, PREFERENCES, ETC.

- <string name="hello">Hello, there</string>
- @InjectResource(R.string.hello) String hello;

SYSTEM SERVICES

- · @Inject LocationManager locationManager;
 - LocationManager locationManager = (LocationManager) context.getSystemService(Context.LOCATION_MANAGER)
- @Inject SharedPreferences prefs;





CUSTOM BINDINGS

- Make a Guice Module
- Set up your custom bindings
 - bind(MyInterface.class).to(MyImplementation.class)
 - bind(MyClass.class).toProvider(MyFancyFactoryForMyClass.class)
- Override bindings for testing
- Simple, but very powerful

BACKGROUNDTASKS

- SafeAsyncTask is a more robust AsyncTask
- adds onException(), onFinally()

EVENTS

void killBackgroundThread(@Observes OnDestroyEvent e) {
 thread.cancel();
 }

TESTING

- Easy to swap out bindings with mock objects
- · Works with Robolectric, mockito, and other test frameworks

SUMMARY

- Production-ready and widely used
- Simplifies your code
- Makes development fun

QUESTIONS?

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