

PV239 - Android



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Rozvrh

- ▶ Prednášky: 5.3., 19.3., 2.4., 16.4., 30.4., 14.5.
- ▶ Cvičenia: 23.2., 9.3., 23.3., 6.4., 20.4., 4.5.
- ▶ Odovzdanie projektu + obhajoba: cez skúškové

Projekty

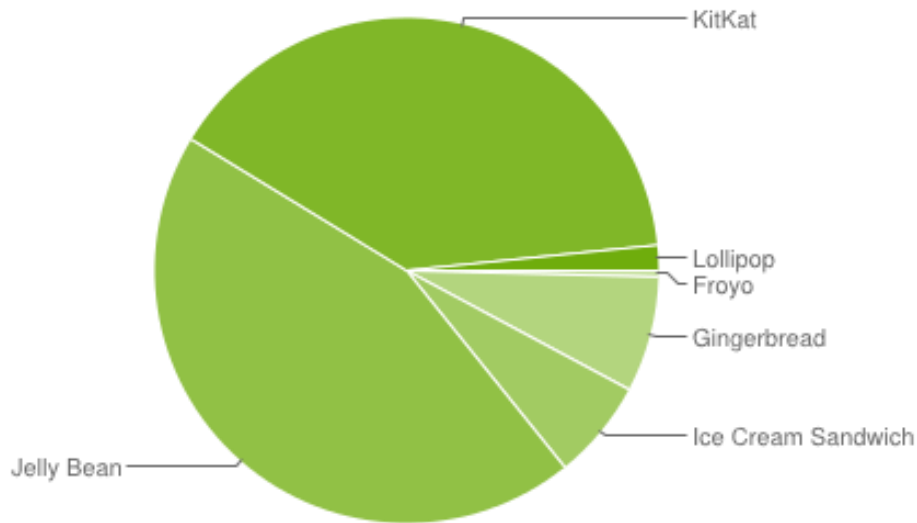
- ▶ Tímy 2-3 ľudí
- ▶ Téma:
 - ▶ Vlastná
 - ▶ Komerčný projekt
 - ▶ Konzultovaná
- ▶ Téma musí byť zadaná v ISe cvičiacimi
- ▶ Grafický návrh (do 2.3.)
- ▶ Obhajoba v skúškovom

Rozvrh

- ▶ 1. Úvod, SW architektúra, zákl. komponenty
- ▶ 2. Activity, Fragment, styles,
- ▶ 3. Layouts, ListView, AdapterViews, Adapter
- ▶ 4. DB, ContentProvider
- ▶ 5. Networking, Services
- ▶ 6. customization

Fragmentácia platformy

► Min, Max SDK = ?



Version	Codename	API	Distribution
2.2	Froyo	8	0.4%
2.3.3 - 2.3.7	Gingerbread	10	7.4%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	6.4%
4.1.x	Jelly Bean	16	18.4%
4.2.x		17	19.8%
4.3		18	6.3%
4.4	KitKat	19	39.7%
5.0	Lollipop	21	1.6%

Data collected during a 7-day period ending on February 2, 2015. Any versions with less than 0.1% distribution are not shown.

Projekt

- ▶ **Vývojové prostredie:** Android Studio
- ▶ **Build systém:** Gradle
- ▶ **Knižnice:** gradleplease.org
- ▶ **Layouty**
 - ▶ Formát xml
- ▶ **Obrázky**
 - ▶ Drawable
 - ▶ Drawable-xhdpi, Drawable-sw720, Drawable-xhdpi-large,
 - ▶ 9-patch

Projekt

- ▶ Logika

 - ▶ Java

 - ▶ Balíčky

 - ▶ UI

 - ▶ Adapters

 - ▶ Db

 - ▶ Network

 - ▶ Model

 - ▶ Utils

 - ▶ App

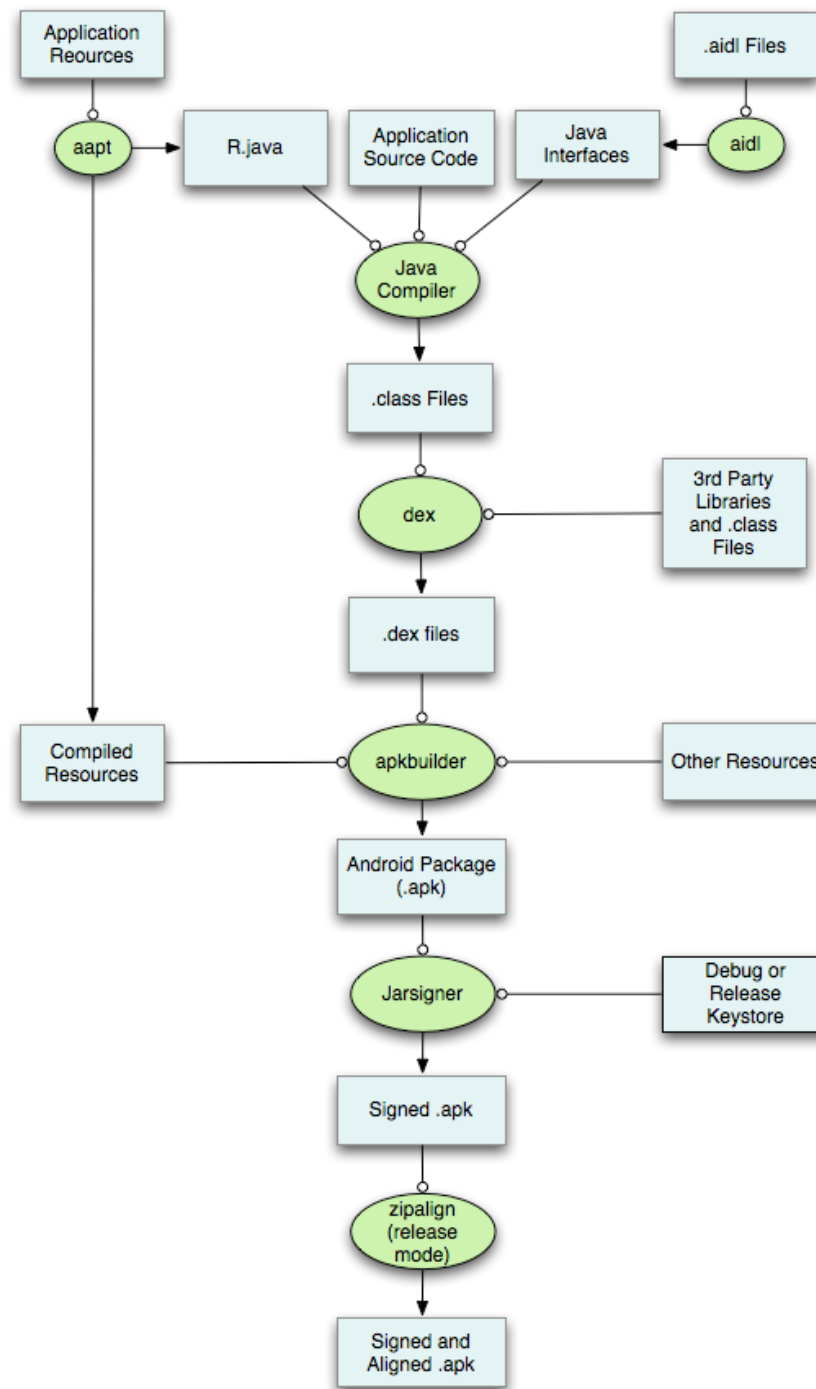
Projekt

▶ Values

- ▶ Farby
- ▶ Strings
- ▶ Plurals
- ▶ Dimensions
 - ▶ Dp, dip
 - ▶ match parent, fill parent, wrap content

Build system

- ▶ Debug version
- ▶ Release version



Build.gradle

- ▶ Dva súbory
 - ▶ Na úrovni projektu
 - ▶ Na úrovni modulu

AndroidManifest.xml

- ▶ Konfiguračný súbor
- ▶ Deklarácia
 - ▶ Aplikácie
 - ▶ Aktivít
 - ▶ Services
 - ▶ Providerov
 - ▶ Iné
 - ▶ Features
 - ▶ API keys

Aktivita

- ▶ Životný cyklus
 - ▶ onCreate()
 - ▶ onResume()
 - ▶ onStart()
 - ▶ onStop()
 - ▶ onDestroy()
 - ▶ onCreateOptionsMenu()
- ▶ Context
- ▶ Intent
- ▶ Môže byť viac aktivít na jednej obrazovke?

Fragment

- ▶ Životný cyklus podobný ako Aktivita
 - ▶ onCreate()
 - ▶ onCreateView()
 - ▶ onDestroyView()
- ▶ Nemá Context
- ▶ fragmentManager
- ▶ Môže byť viac fragmentov na jednej obrazovke?