



Горячие новости с I/O 2016

Неклюдов Денис

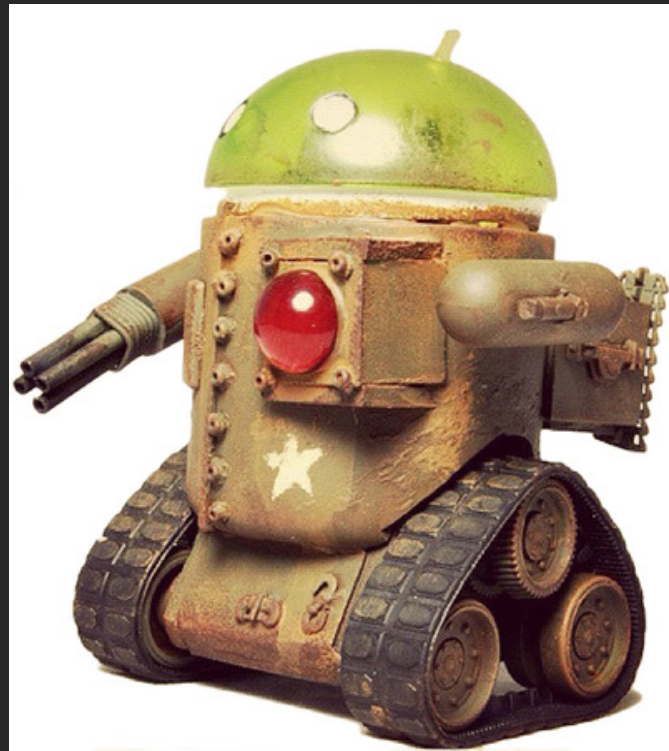
Google Developer Expert Android

Дисклаймер

Если вы следили за всеми новостями на хабре, в твиттере и на других ресурсах, смотрели все видео с лекций и кейнотов, или более того, были на i/o лично - уходите на другую секцию.

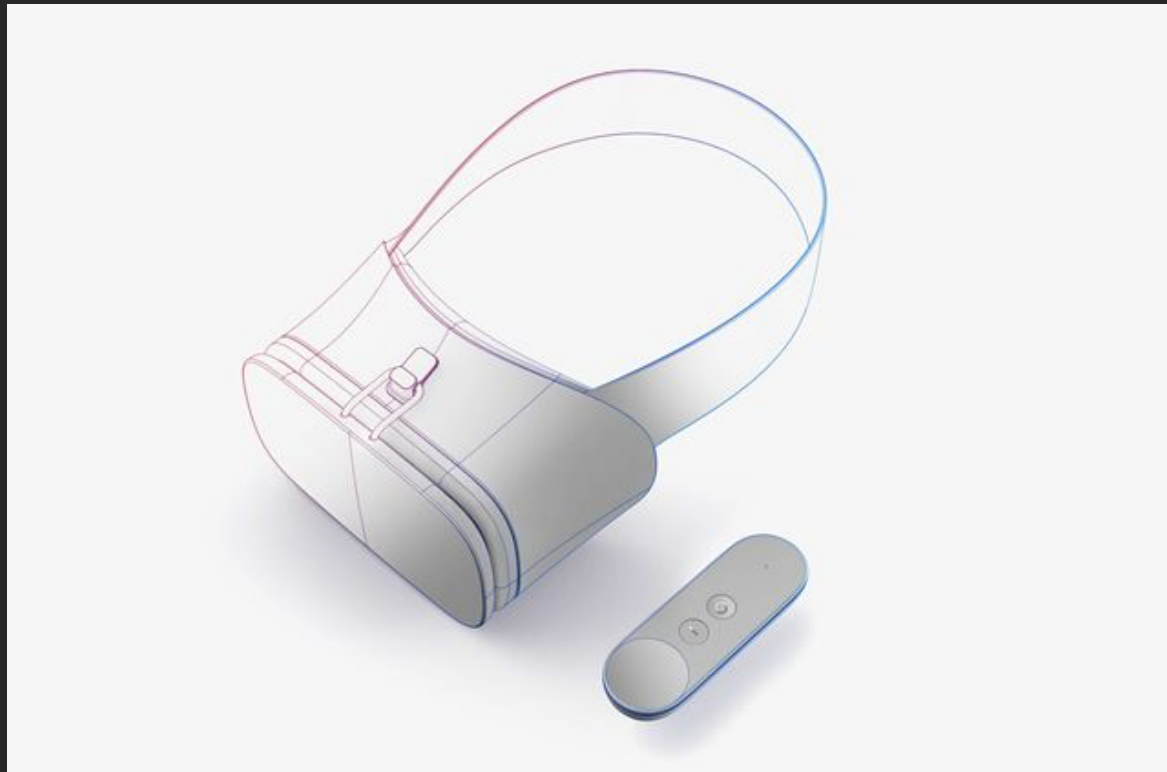
Дисклаймер

Моя презентация для тех, кто в танке.



Про будущее

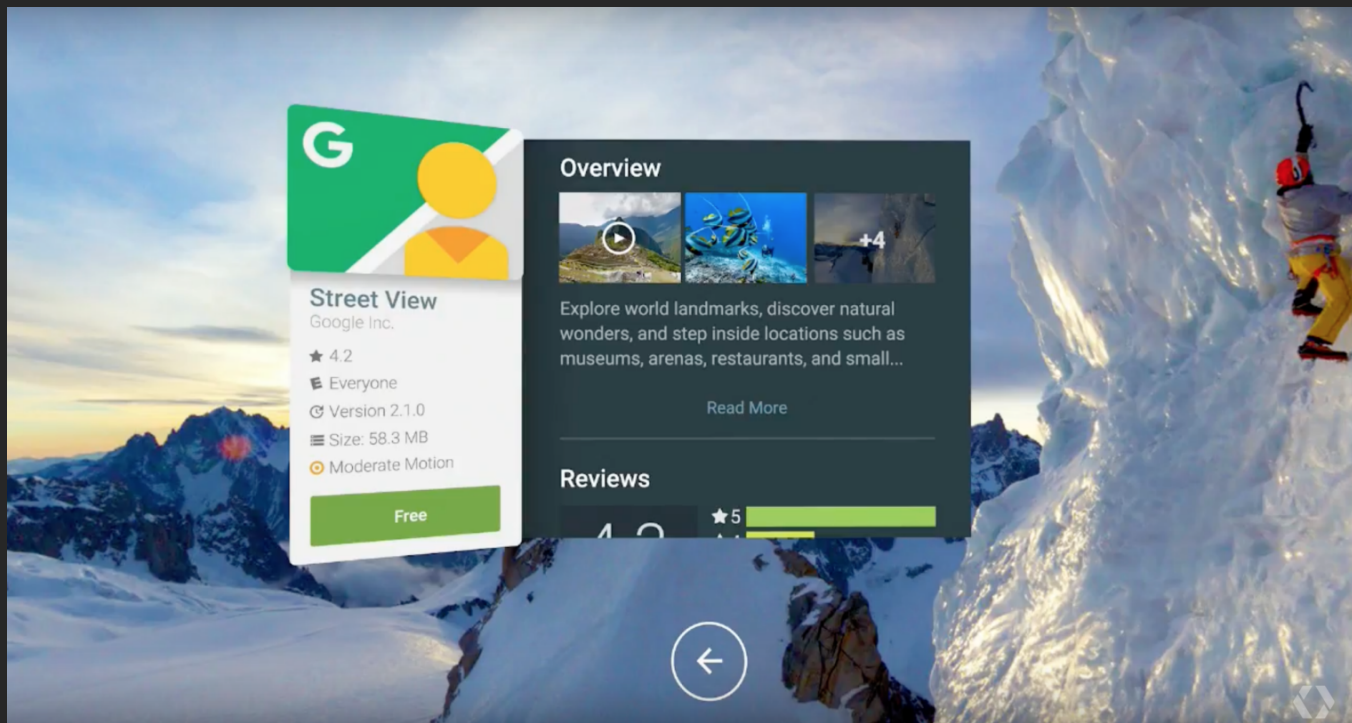
Daydream



Daydream



Daydream



Google Home



Manage everyday tasks effortlessly

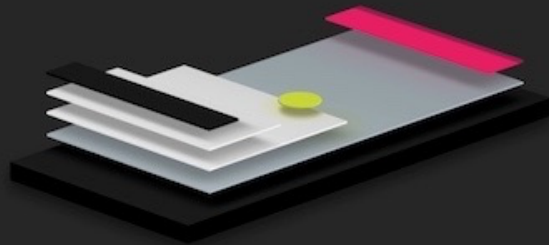


Про ближайшее будущее

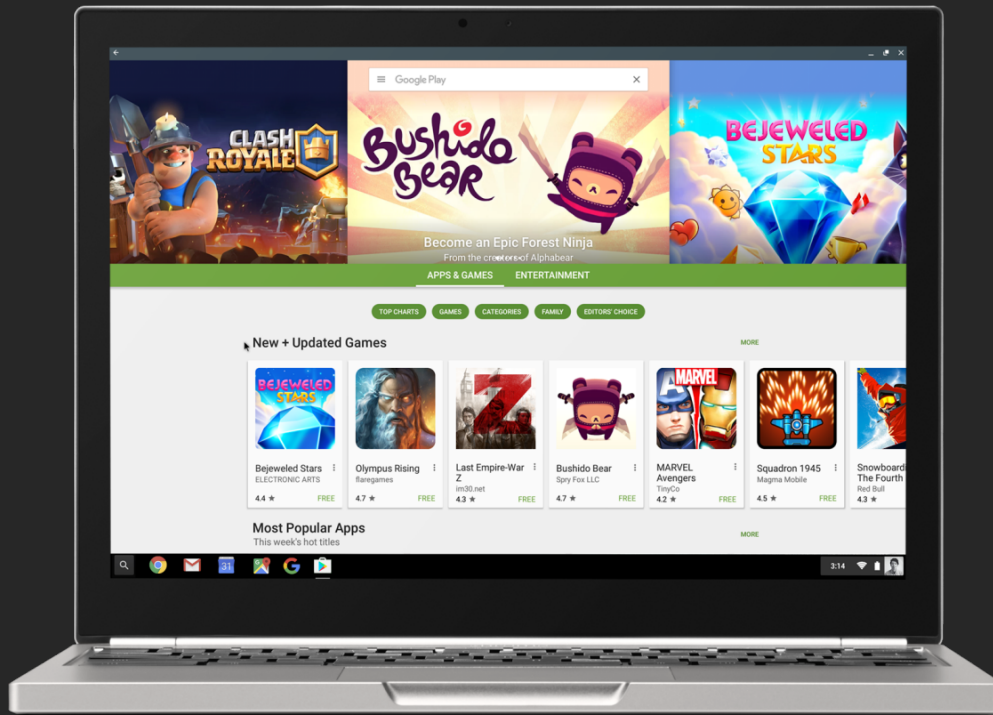
Android Instant Apps



No installation.
No storage.
Use & forget.



App Runtime for Chrome



Про носимую электронику

Wear 2.0

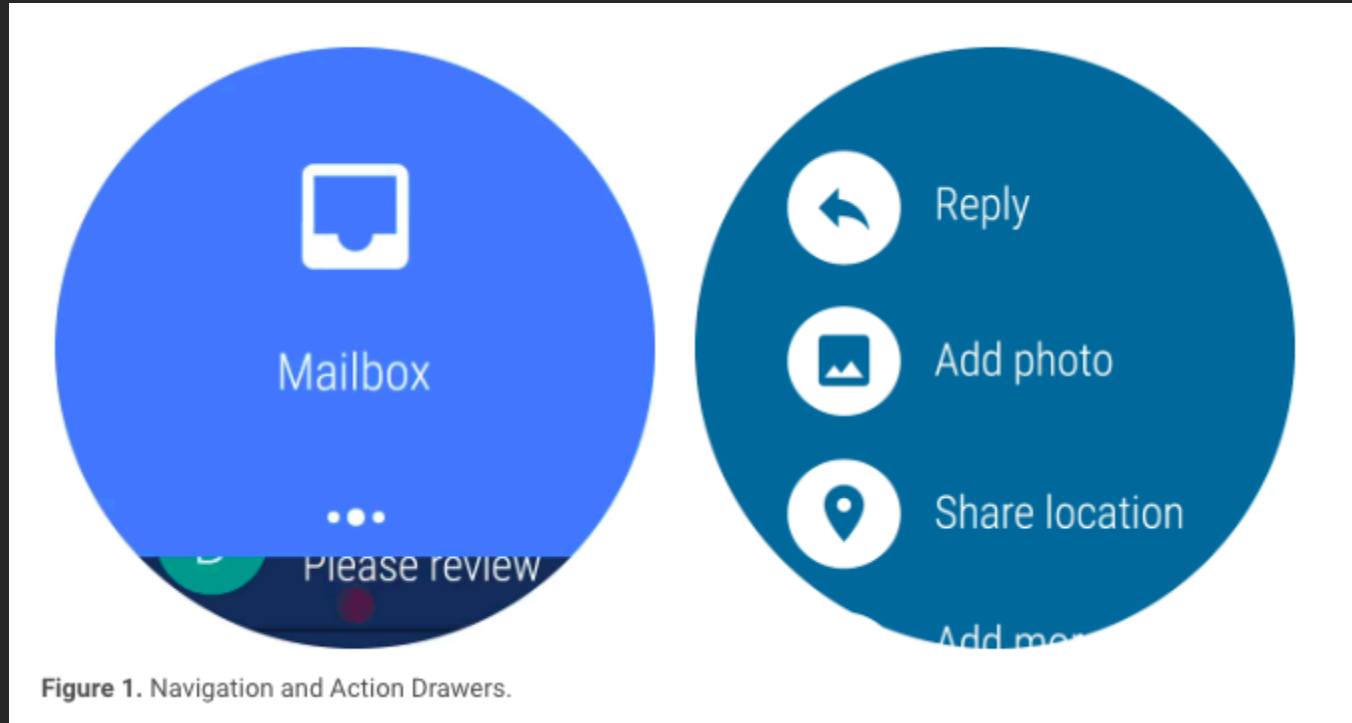


Wear Developer Preview is not available for all devices. Screens simulated.

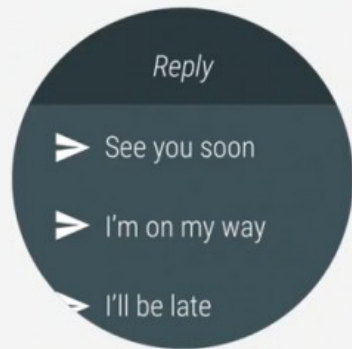
Complications



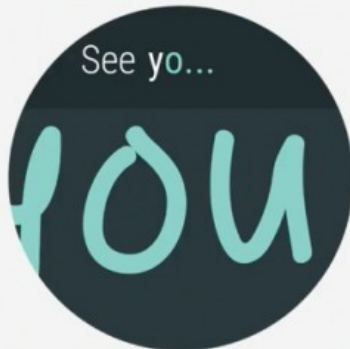
Navigation Drawer



Messaging



Smart Reply

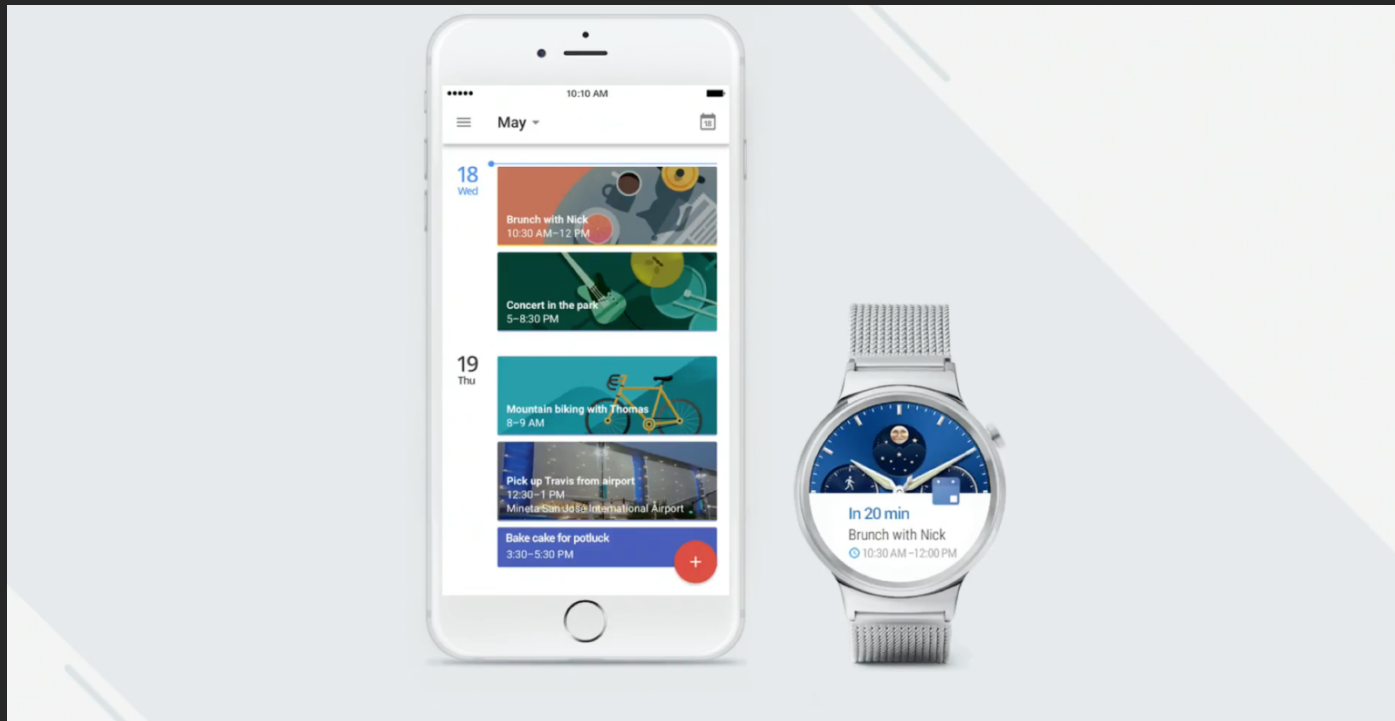


Handwriting



Keyboard

Standalone Apps



А что с N_preview_3 ?

Google VR SDK

- Lens distortion correction.
- Spatial audio.
- Head tracking.
- 3D calibration.
- Side-by-side rendering.
- Stereo geometry configuration.
- User input event handling.

Больше изменений

- Sustained Performance API
- Multiprocess WebView
- Keyboard Shortcuts helper
- FrameMetrics API

Google Play еще удобнее

Новое в Google Play

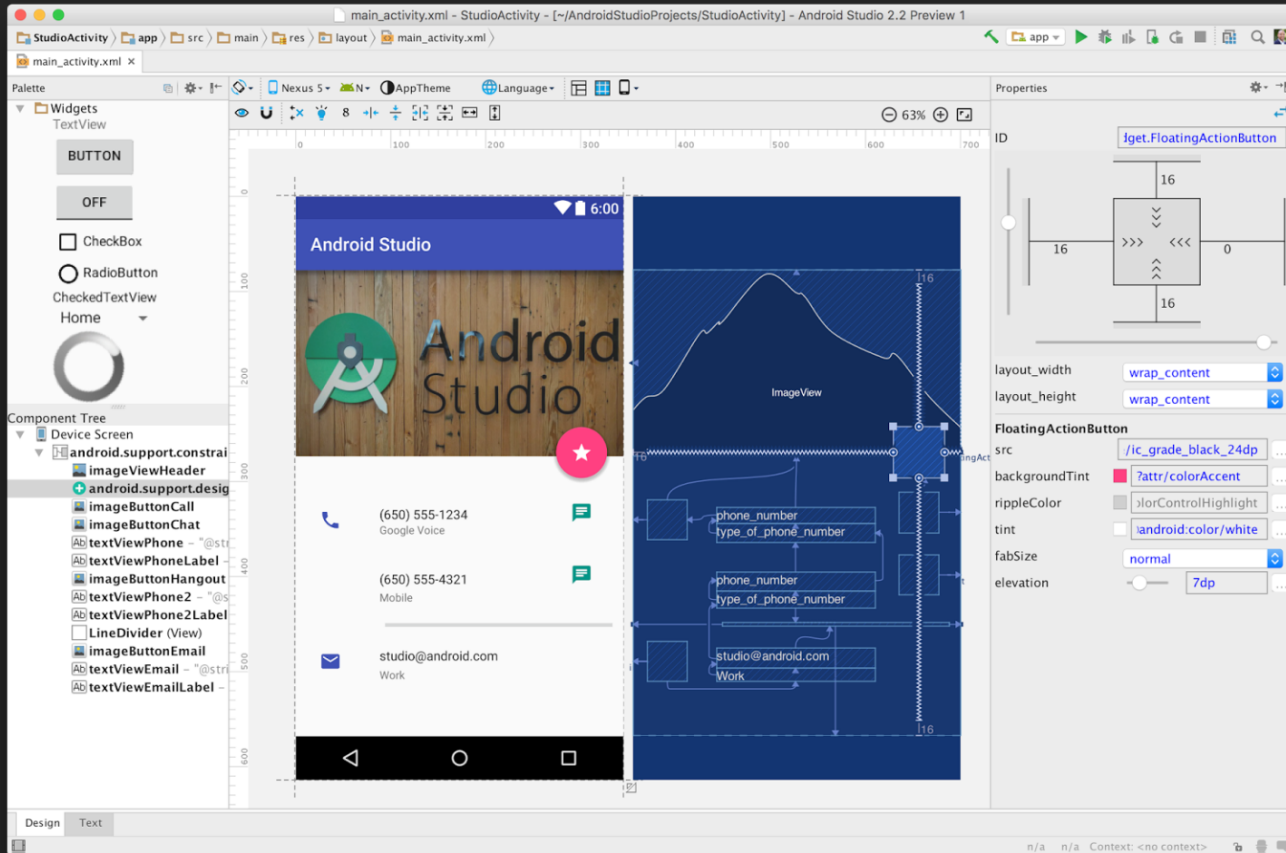
- Легкий доступ к бетам
- Отдельный каталог с бетами
- Отчет о тестировании перед публикацией
- Показатели отзывов
- API для ответов на отзывы
- Автоокругление цен
- Приложение для Play Console
- Семейный доступ к купленным приложениям

Review Benchmarks

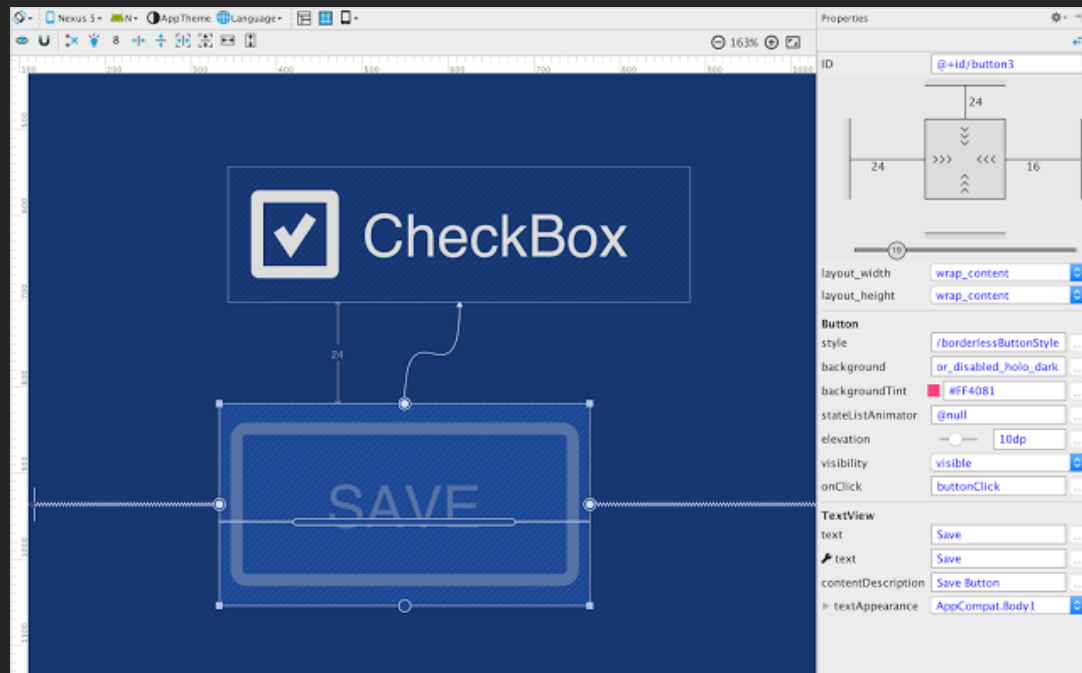
BENCHMARKS						
Common topics		Average rating	Rating vs peers	Number of reviews	Number vs peers	Effect on rating ?
Design	?	4.821 ★	+0.148 ★	80 	0.54 x	
Profile	?	1.450 ★	-0.279 ★	29 	0.78 x	
Resource usage	?	3.433 ★	+0.077 ★	42 	1.08 x	
Speed	?	3.650 ★	-0.485 ★	885 	3.22 x	
Stability	?	1.540 ★	-0.710 ★	1476 	1.92 x	
Uninstalls	?	1.638 ★	-0.009 ★	105 	1.78 x	
Update	?	2.318 ★	-0.568 ★	734 	2.29 x	
Usability	?	4.786 ★	+0.167 ★	1016 	1.28 x	

Новая версия Android Studio

Layout Editor



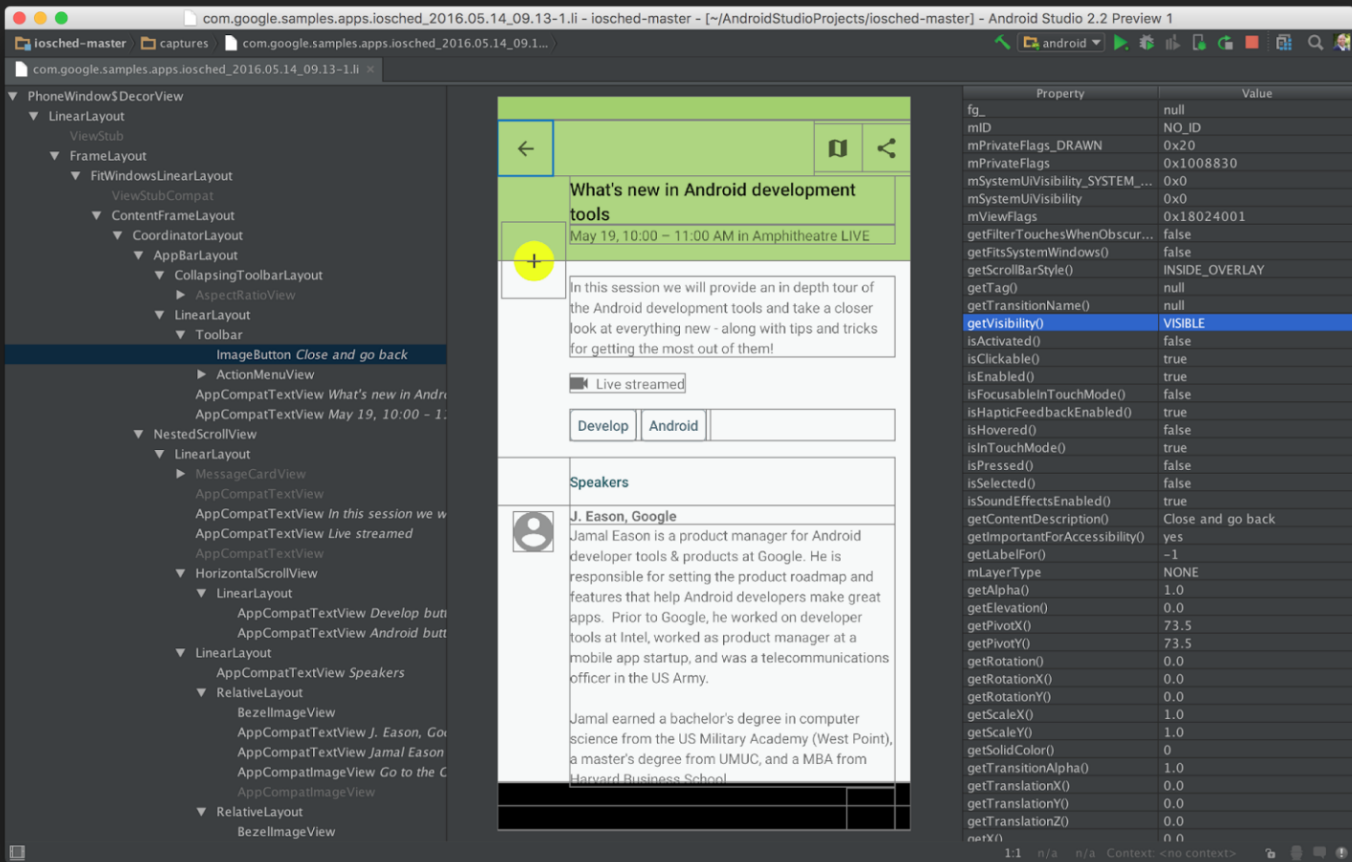
Constraint Layout



<http://tools.android.com/tech-docs/layout-editor>

compile 'com.android.support.constraint:constraint-layout:1.0.0-alpha1'

Layout Inspector



Apk Analyzer

app-debug.apk - StudioActivity - [~/AndroidStudioProjects/StudioActivity] - Android Studio 2.2 Preview 1

StudioActivity > app > build > outputs > apk > app-debug.apk

app-debug.apk x

com.android.emptyactivity (version 1.0)

Raw File Size: 4 MB, Download Size: 1.6 MB

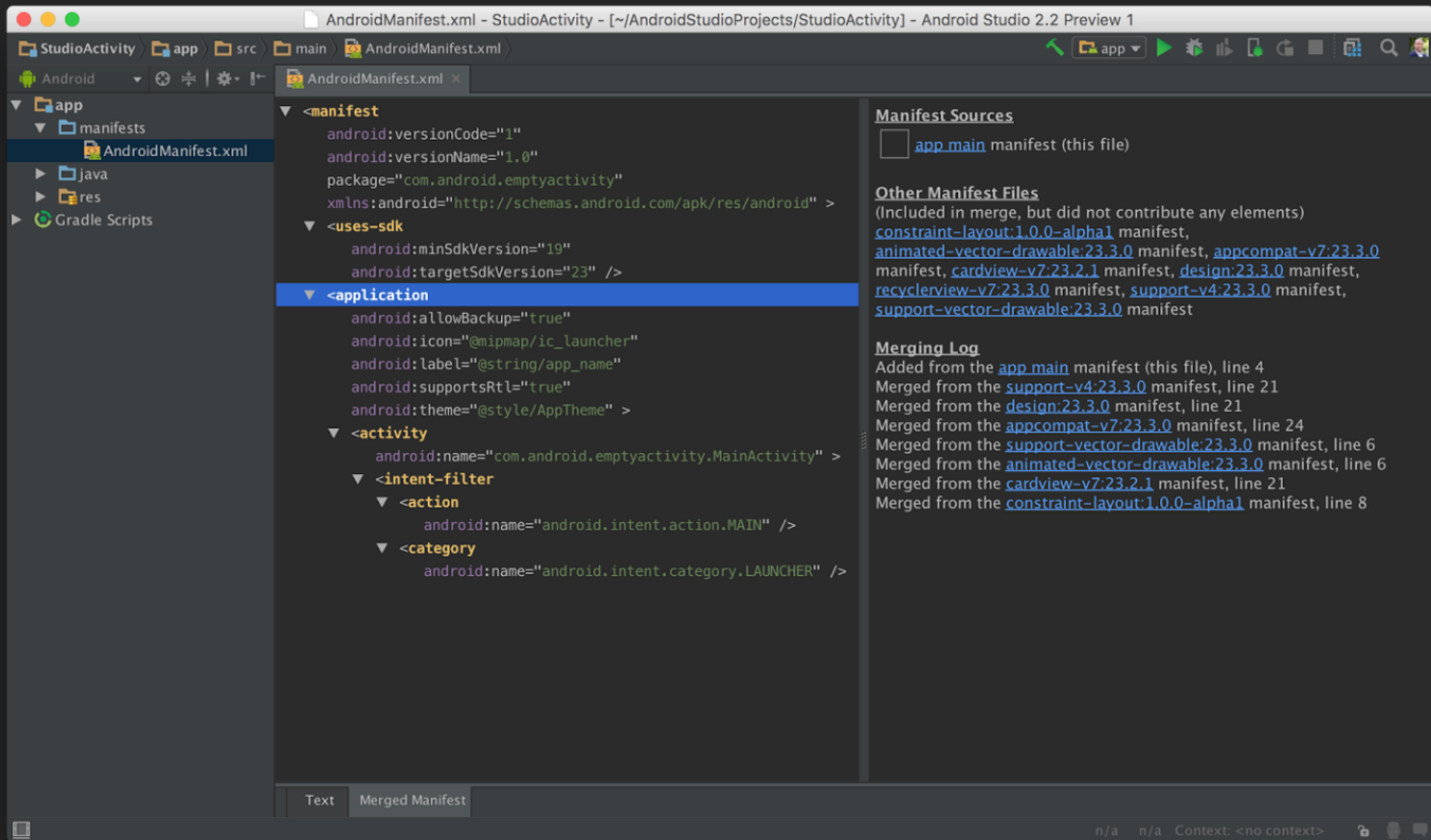
File	Raw File Size	Download Size	% of Total	Download size
classes.dex	3.2 MB	1016 KB	63.8%	
res	601.9 KB	508.8 KB	31.9%	
drawable	427.3 KB	402.9 KB	25.3%	
layout	70.9 KB	28.7 KB	1.8%	
drawable-xxhdpi-v4	42 KB	34.7 KB	2.2%	

This dex file defines 1933 classes with 16375 methods, and references 21038 methods.

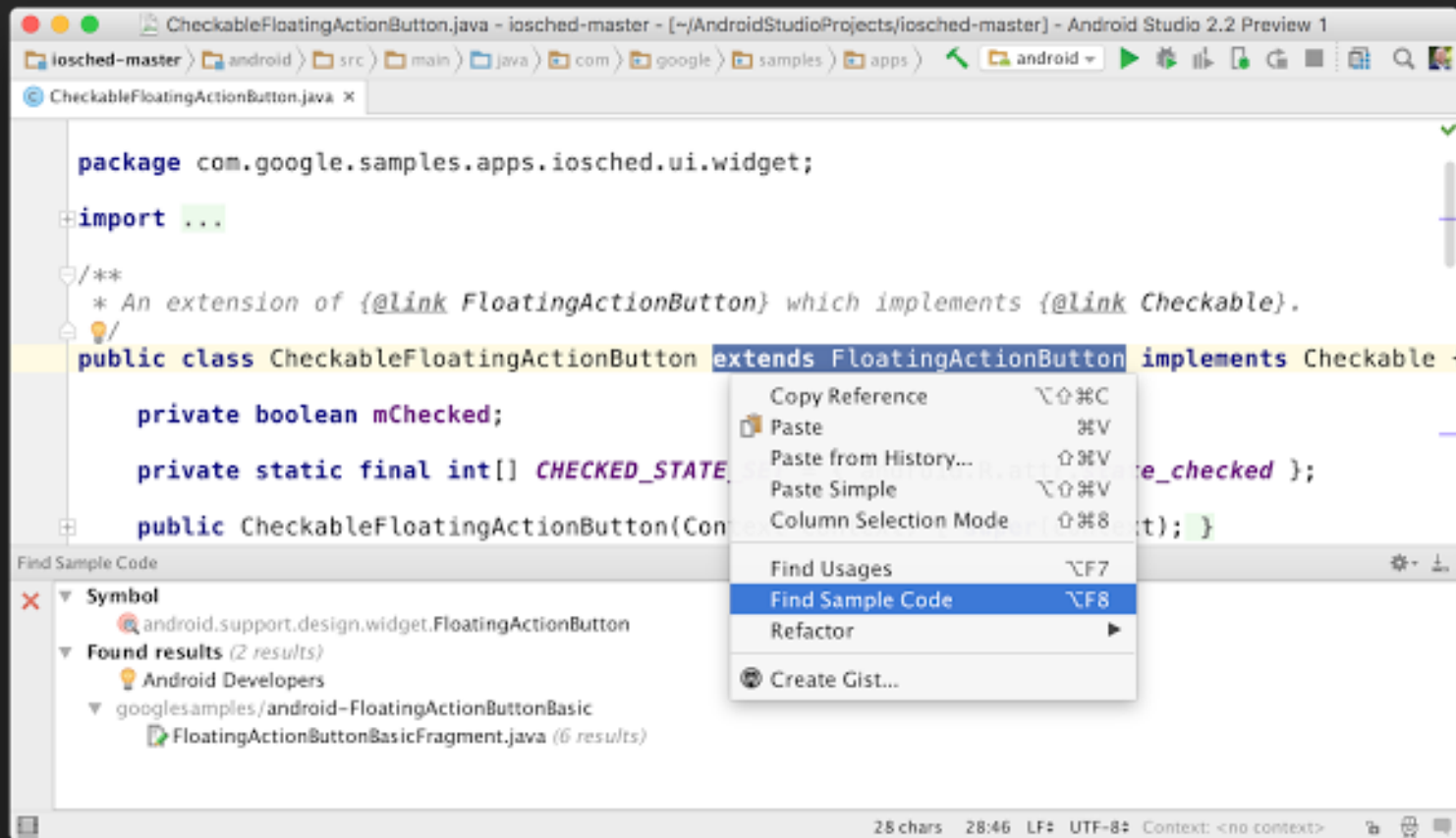
Class	Defined Methods	Referenced Methods
android	17854	20596
support	17854	17863
v4	9003	9004
view	2935	2935
accessibility	1116	1116
ViewPager	137	137
void <clinit>()	1	1
void <init>(android.content.Context)	1	1
void <init>(android.content.Context, android.util.AttributeSet)	1	1
void access\$000(android.support.v4.view.ViewPager, int)	1	1
android.support.v4.view.PagerAdapter access\$200(android.support.v4.view.ViewPager)	1	1
int access\$300(android.support.v4.view.ViewPager)	1	1
int[] access\$400()	1	1
void addFocusables(java.util.ArrayList, int, int)	1	1
android.support.v4.view.ViewPager\$ItemInfo addNewItem(int, int)	1	1
void addOnPageChangeListener(android.support.v4.view.ViewPager\$1)	1	1

n/a n/a Context: <no context>

Merged Manifest Viewer



Sample Viewer



C++ Support

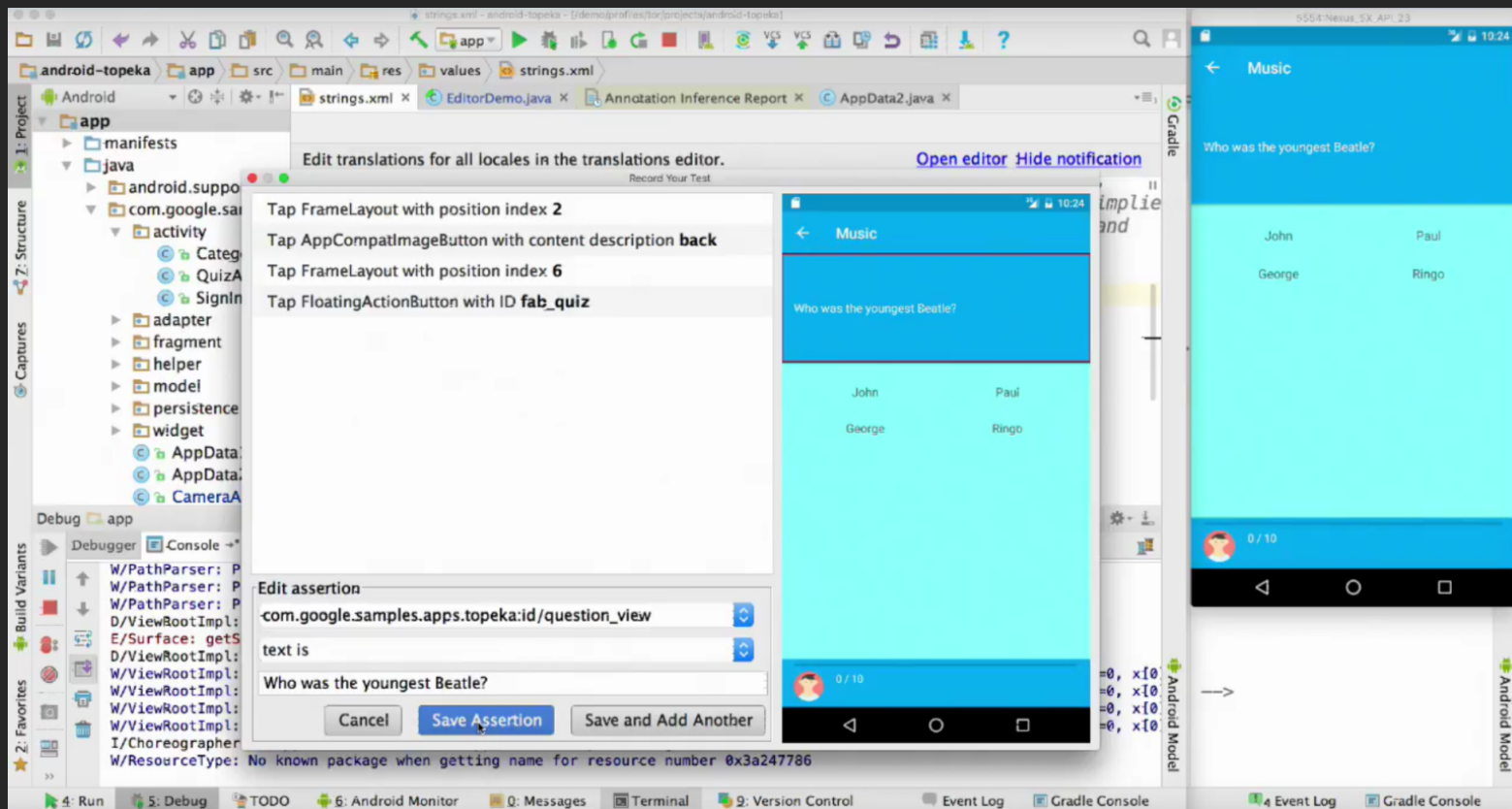
- Поддержка сMake
- Дебаг С-кода
- Отладка одновременно нативного и java-кода

Плюс ко всему

- Firebase Plugin
- Новые правила Lint (Java 8, утечки контекста)
- Улучшения в Jack Compiler
- Espresso Test Recorder

Test Recorder?

Test Recorder (не предоставлен в превью)



Компатибилити тоже обновили

Support 24.0

- Custom tabs warmup
- Vector drawable
- Bottom sheet
- Fragments commitNow
- Минимальная версия Support 9!

Play Services 9.0

Да, да, они живы и обновляются

Play Services 9.0

- Native Ads Express
- Nearby with ACCESS_FINE_LOCATION
- Peer-to-peer Nearby Messages option to show the opt-in dialog
- Player Stats API
- Video recording API

Но на самом деле вся мякотка тут



Firebase

DEVELOP



Realtime Database



Authentication



Cloud Messaging



Storage



Hosting



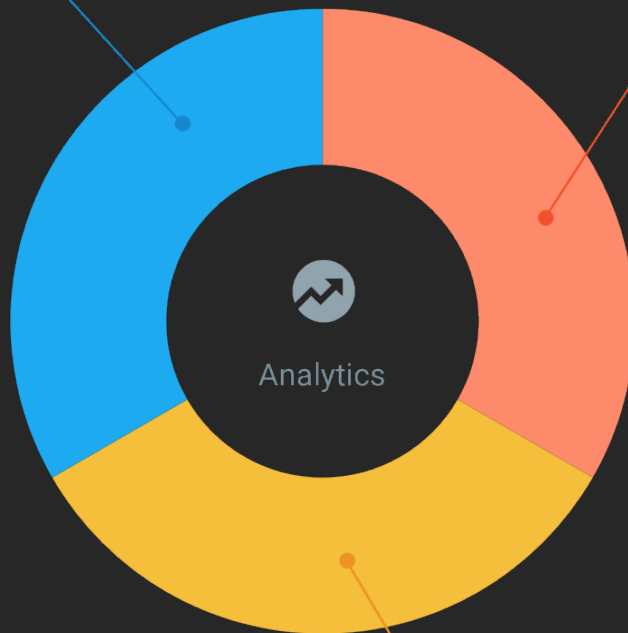
Remote Config



Test Lab



Crash Reporting



GROW



Notifications



App Indexing



Dynamic Links



Invites



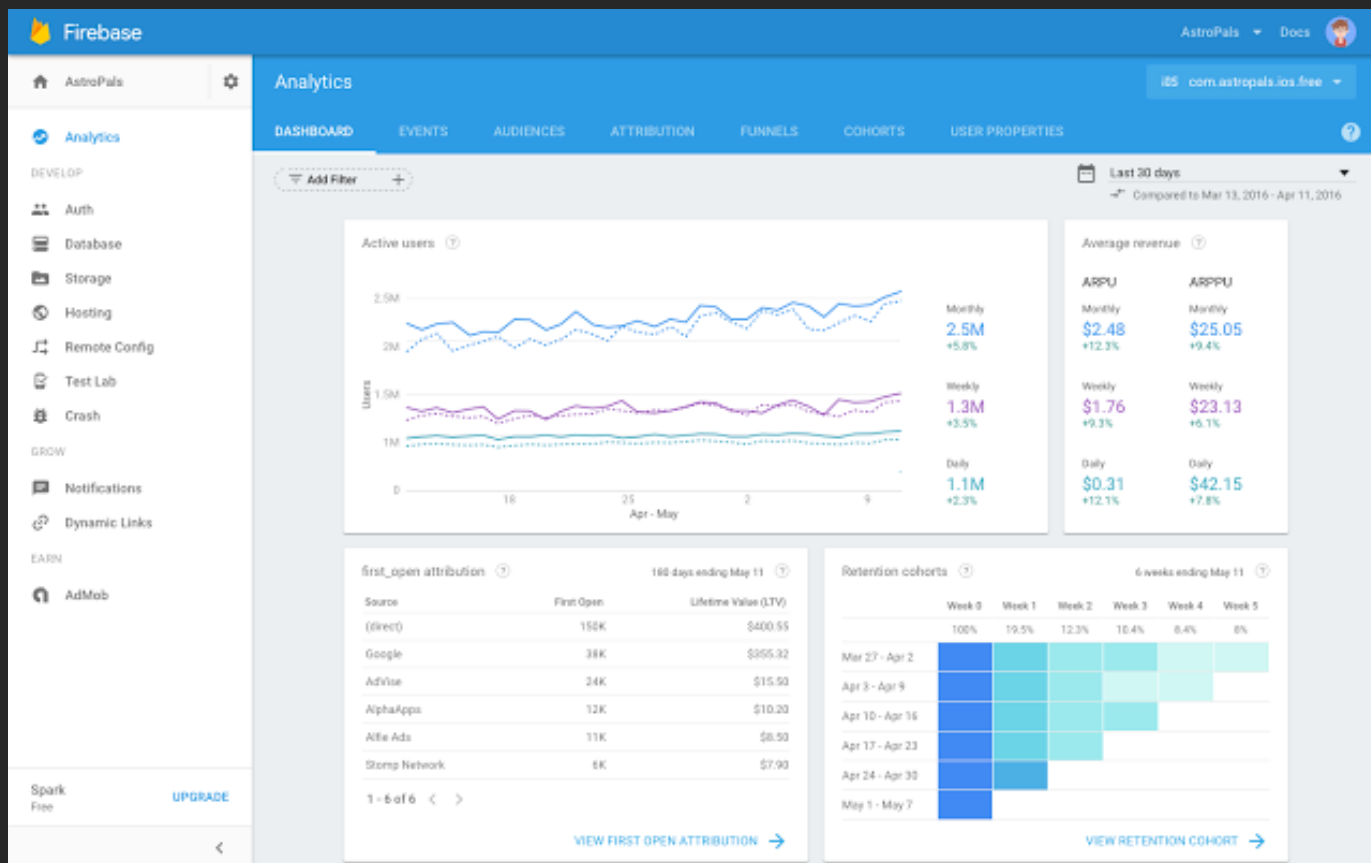
AdWords

EARN



AdMob

Analytics



Firebase Cloud Messages (FCM)

- Упрощенная интеграция на клиенте
- Возможность отправлять пуши из готовой консоли
- Возможность получать ответы от клиентов

Authentication

- FirebaseUI
- Email and password based authentication
- Federated identity provider integration
- Custom auth system integration
- Anonymous auth



Realtime Database

- NoSQL remote db
- Realtime
- Offline
- Accessible from Client Devices

Storage

Provides secure file uploads and downloads for your apps

- Robust
- Secure
- Scalable

Remote config

- Quickly roll out changes to your app's userbase
- Customize your app for segments of your userbase
- Run A/B tests to improve your app

U3 Play Services

- App Indexing
- Dynamic Links
- Invites
- AdWords
- AdMob

Что-то еще?

- Test Lab
- Crash Reporting

Спасибо за внимание!