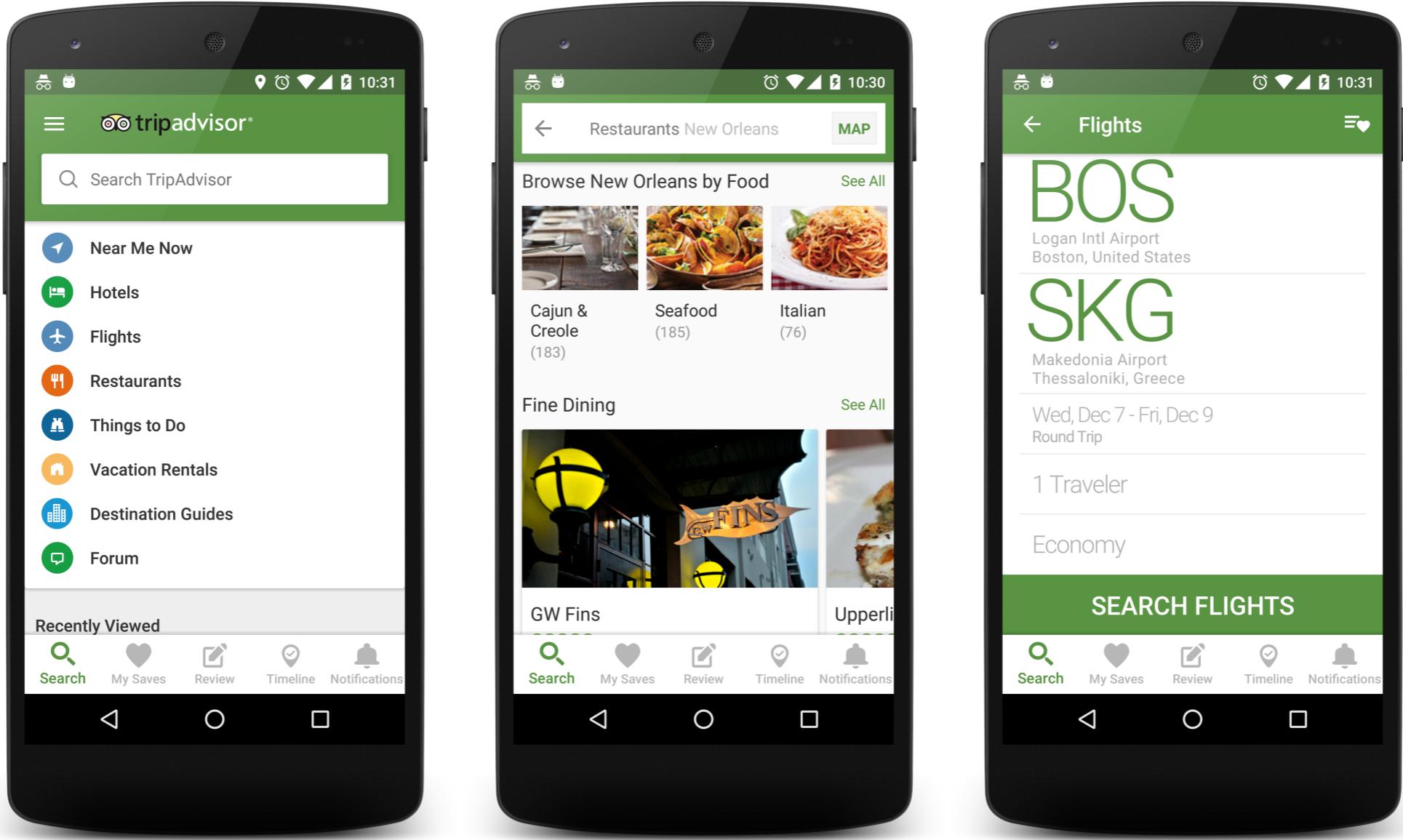


NATIVE RELEASE ENGINEERING AT TRIPADVISOR





~100 million active installs
~1.5 million daily active users
~190 developers have contributed
~81 since the past year
~40 the past month

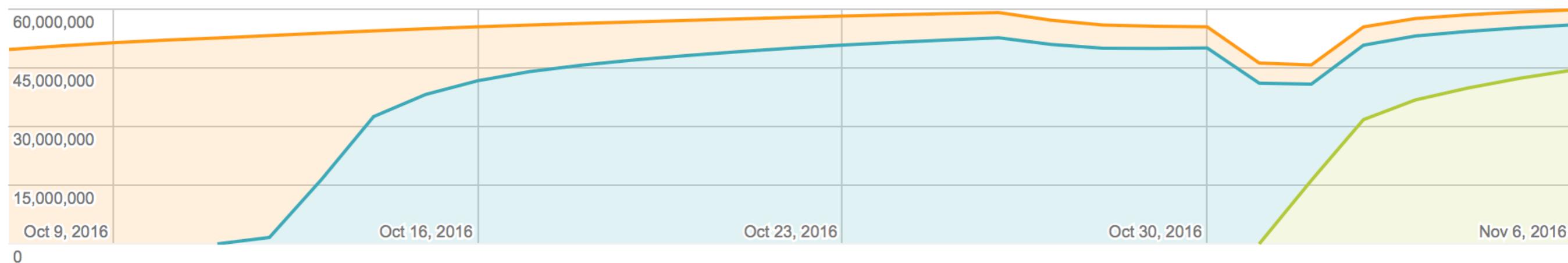


NATIVE RELEASE CHALLENGES

The hard truth

- You can't take it back.
- You can't force users to update.
- You have to consider what goes in the client and what in the server.

INSTALLS ON ACTIVE DEVICES BY APP VERSION



INSTALLS ON ACTIVE DEVICES ON NOV 6, 2016



Exceptions matter

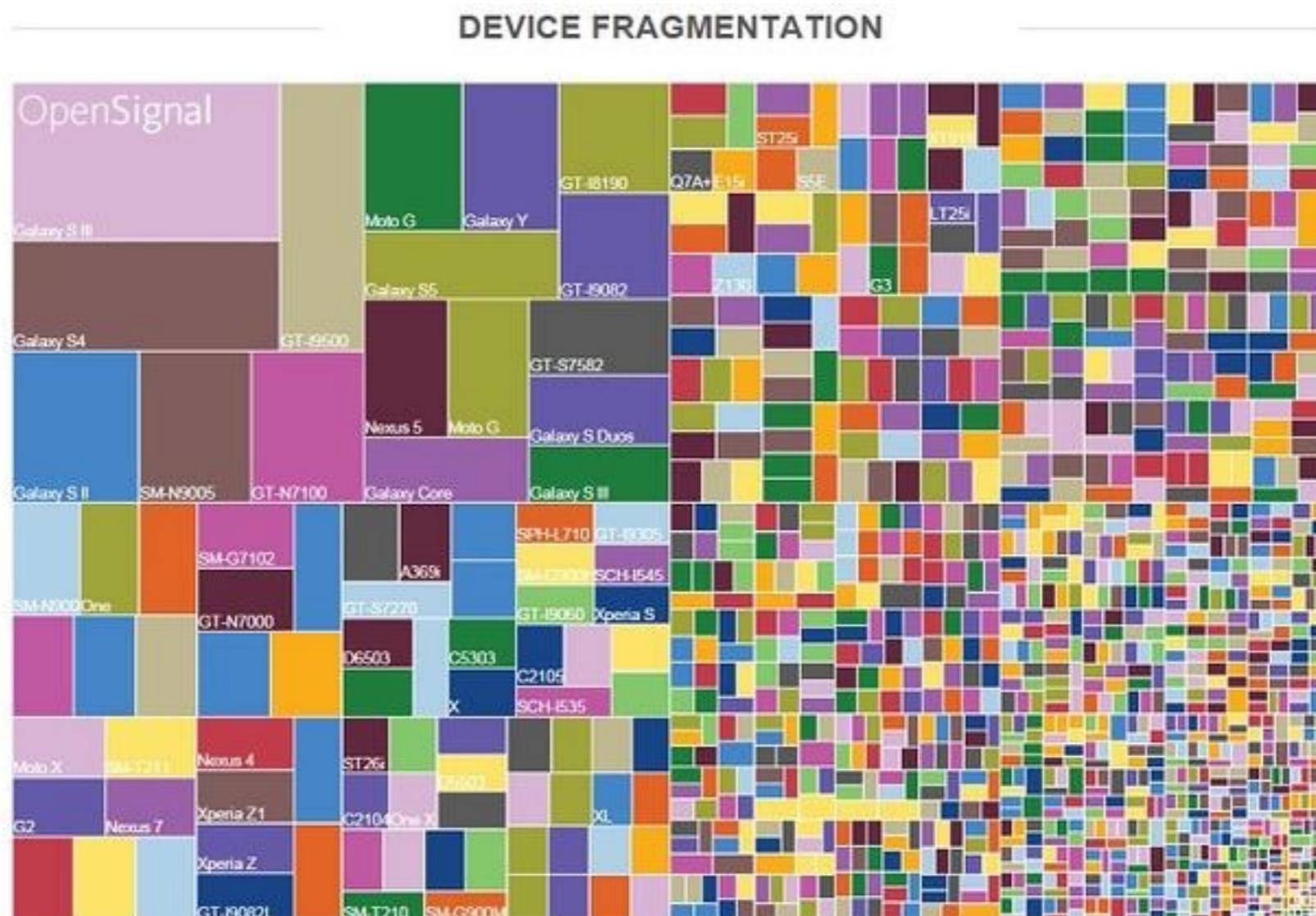
(a lot)



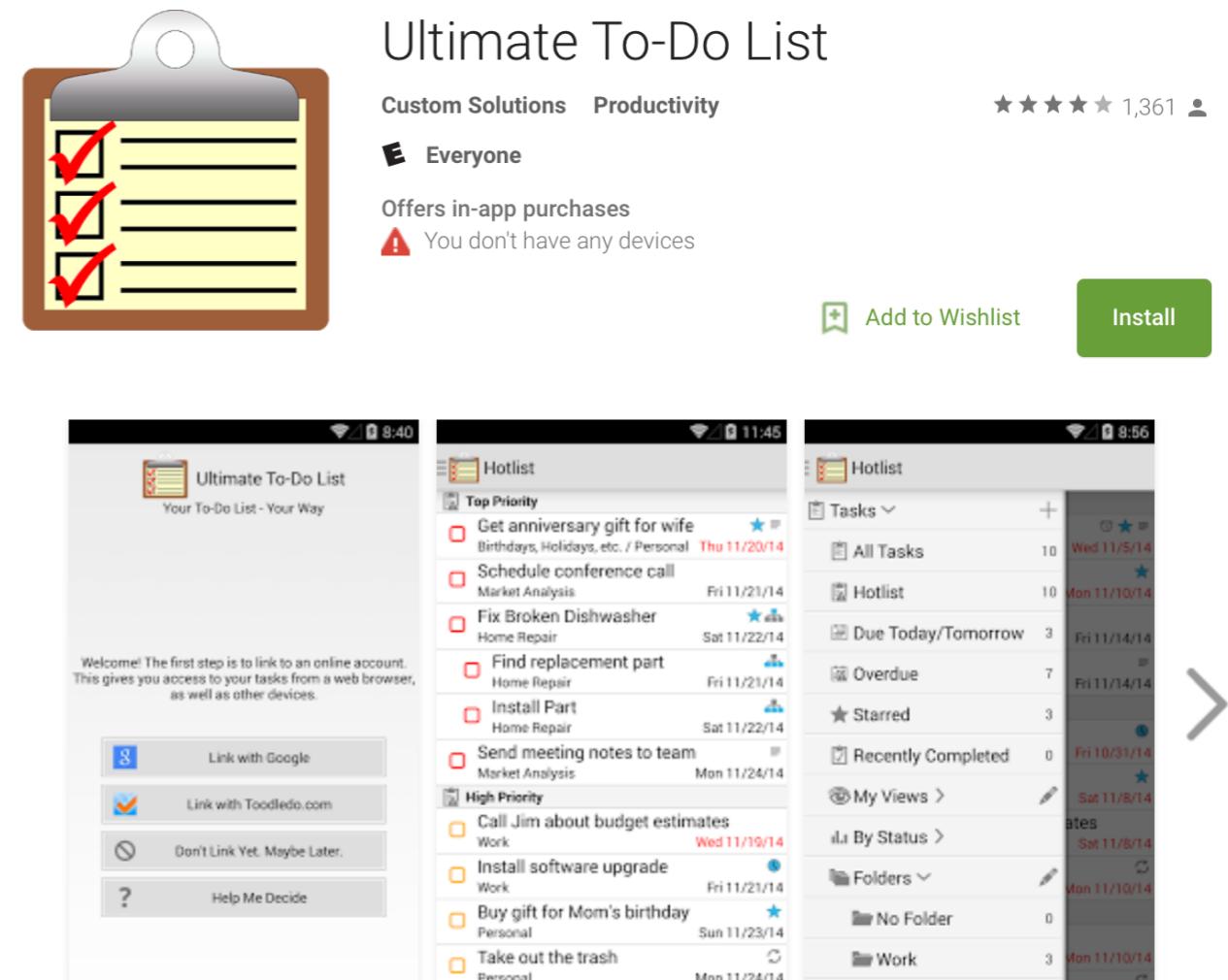
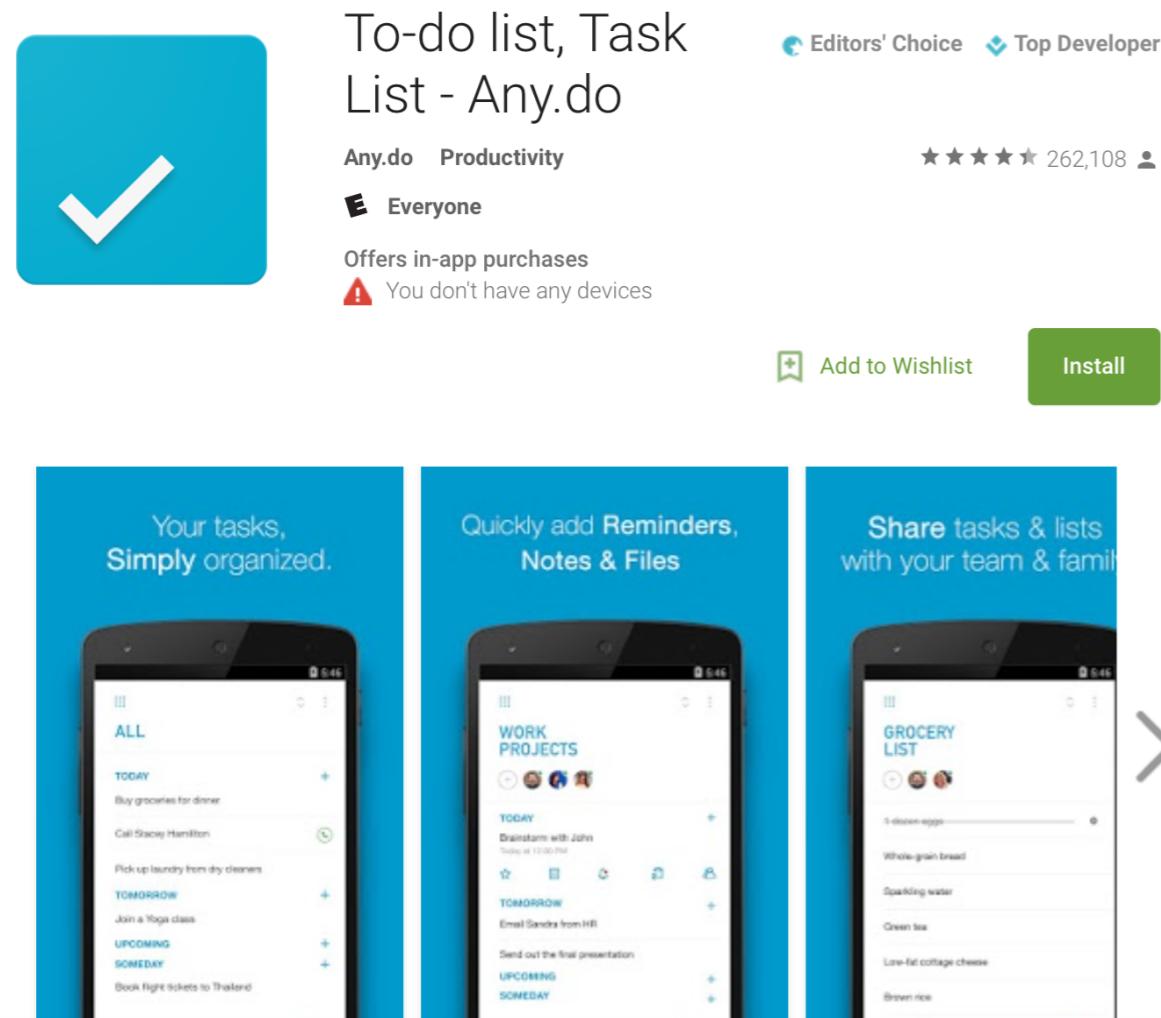
Crash galore Love the app..... When it's not crashing

Fragmentation

... makes testing harder

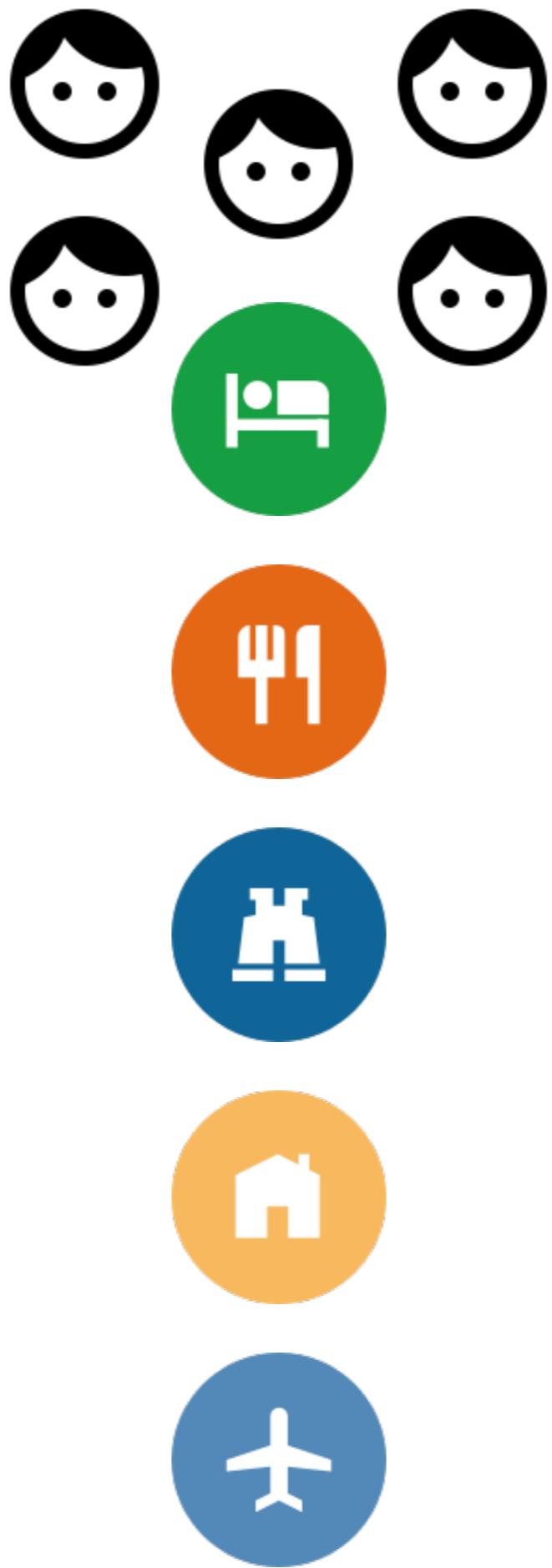


First impressions matter

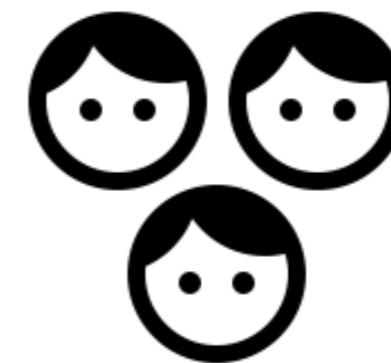
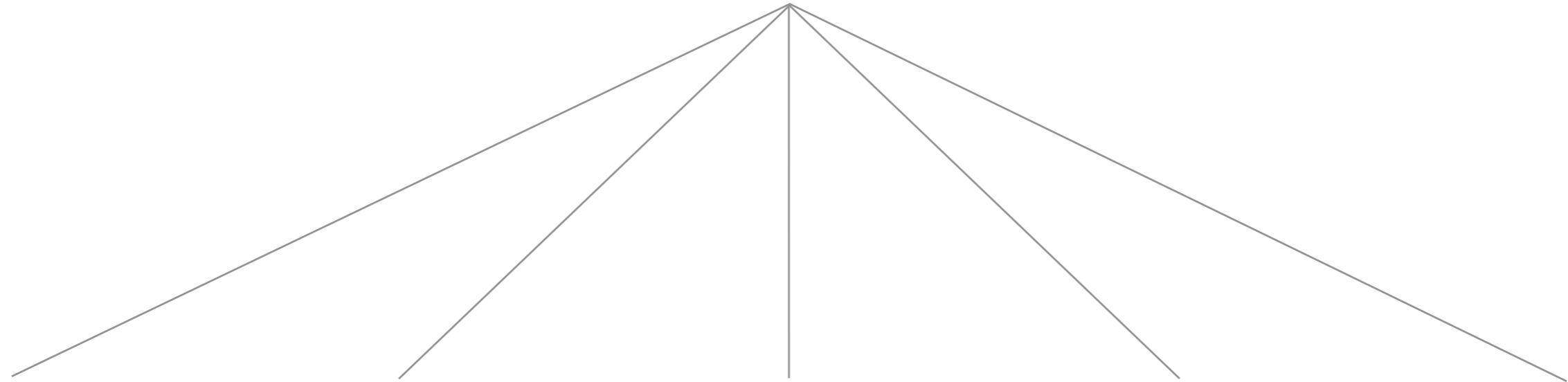




CODING IN SCALE



< >

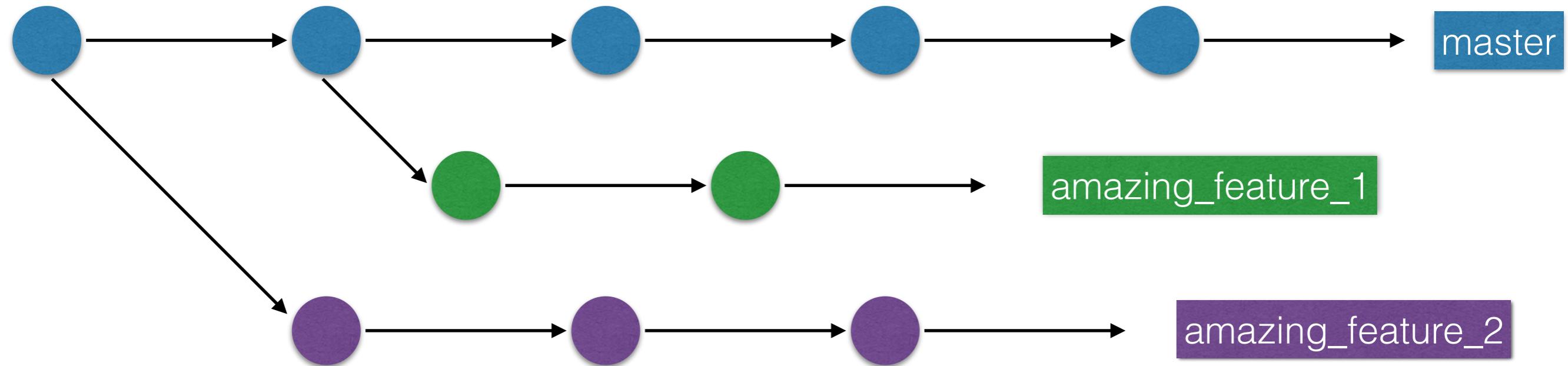


Version control!



- <https://xkcd.com/1597/>

Branch per feature



Details



Chrysanthi Chaleva created a pull request 21 Jul 2016
<https://jira.tripadvisor.com/browse/CMN-2783>

We had 4 features in the app that were requiring the user to login in certain actions as in tapping the photo viewer for example. Those were CMN tests and it was decided that they need to be removed. I coincidentally was doing some work on this part of the code so there you go :)

1 build ✓

CMN-2783

Learn more

Activity



What do you want to say?



Chrysanthi Chaleva MERGED bugfix/CMN-2783-android-soft-gate-on-photo-removal to mainline in commit [9e1e2595b1a](#) 21 Jul 2016



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 ✓ BUILD SUCCESS - Build #334 which took 26 min

Reply · Create task · Like · 21 Jul 2016



Native Ops

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Reply · Create task · Like · 21 Jul 2016



Mani ShafaatDoost marked the pull request as **APPROVED** 21 Jul 2016



Mani ShafaatDoost commented on a file 21 Jul 2016 in removed commit [6fb223bf01](#)

apps / TAMobileLibrary / src / main / java / com / tripadvisor / android / lib / tamobile / activities / **LocationDetailActivity.java**

```

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2080 2080     final View photoFrameSmallTop = findViewById(R.id.photoFrameSmallTop);
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Mani ShafaatDoost

remove sGatePhotoClick

Reply · Create task · Like · 21 Jul 2016



Chrysanthi Chaleva

ahh thanks mani, missed that

Reply · Edit · Delete · Create task · 21 Jul 2016



Laurent Charriere

So satisfying

Reply · Create task · Like · 21 Jul 2016



Laurent Charriere

marked the pull request as **APPROVED** 21 Jul 2016



Chrysanthi Chaleva OPENED the pull request 21 Jul 2016

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 **Mani ShafaatDoost** commented on a file 21 Jul 2016 in removed commit [6f5b223bf01](#) REMOVED

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```
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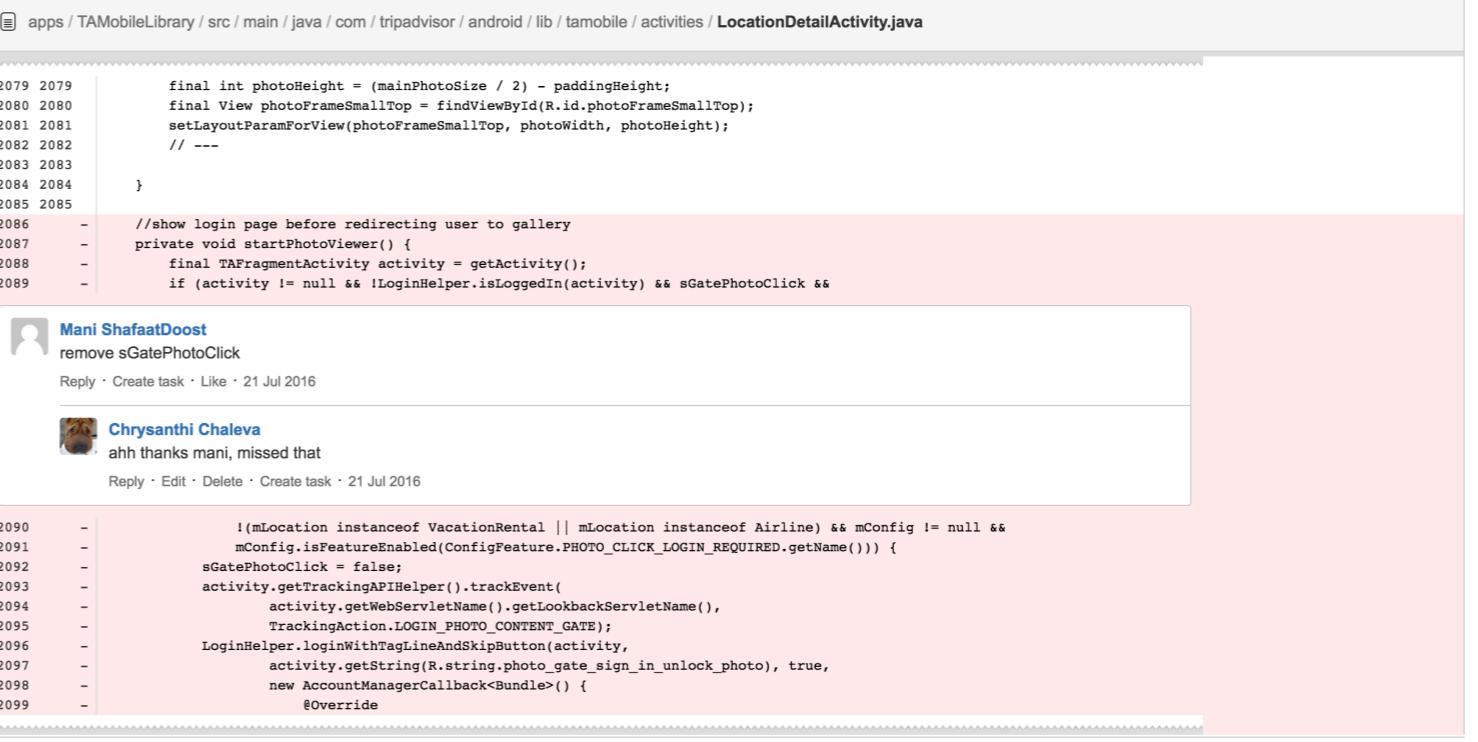
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Mani ShafaatDoost commented on a file 21 Jul 2016 in removed commit [6fb223bf01](#)

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Mani ShafaatDoost

remove sGatePhotoClick

[Reply](#) · [Create task](#) · [Like](#) · 21 Jul 2016



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[Reply](#) · [Edit](#) · [Delete](#) · [Create task](#) · 21 Jul 2016



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Overview Diff Commits

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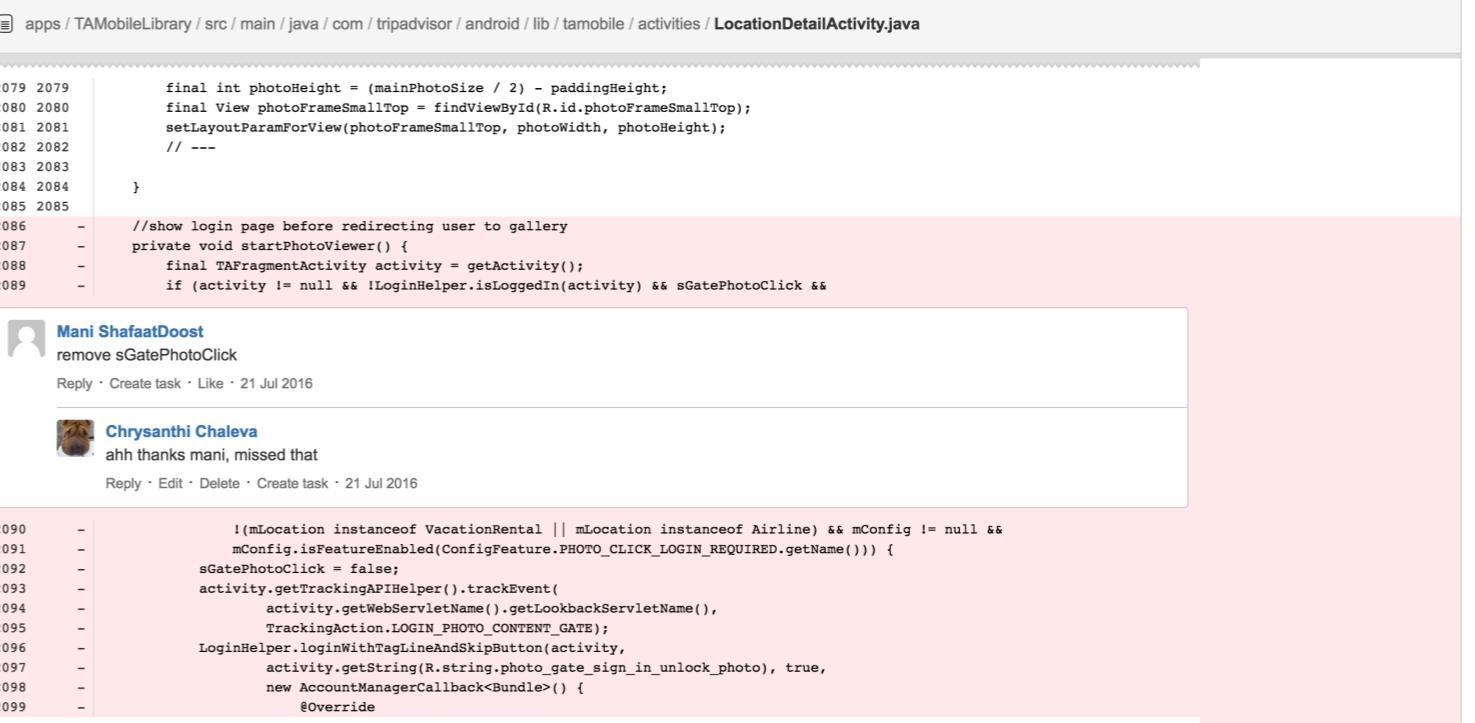
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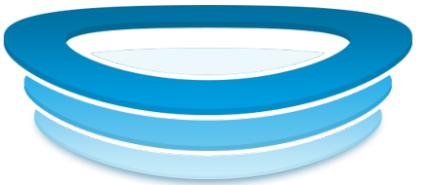
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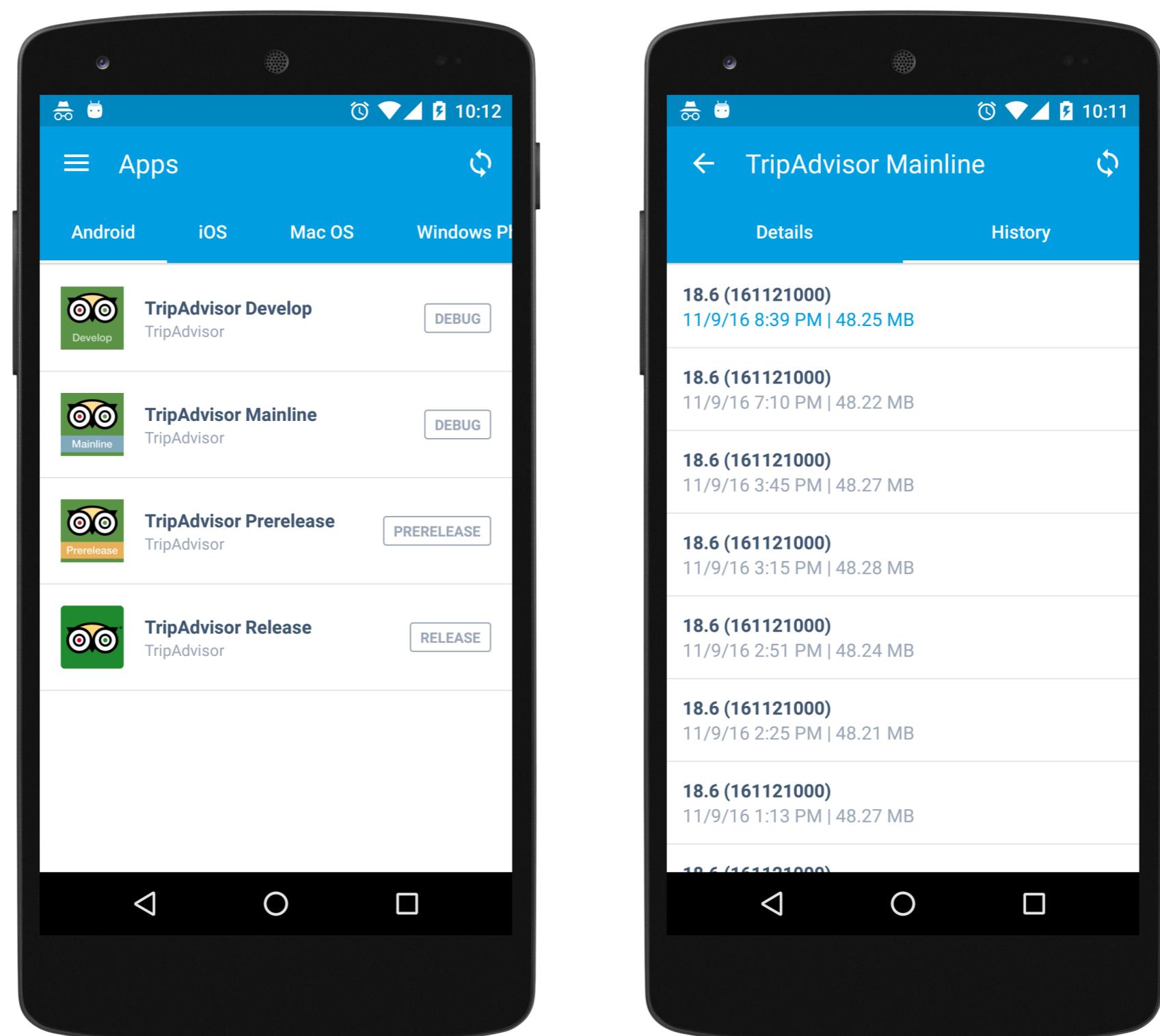
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HOCKEYAPP

Dogfooding



Communication is important!

- Mobile Design Review
- Brown bags
- Mobile guilds
- Hackathons



RELEASING

How often? Monthly?

- Not fast enough for product managers.
- Need to be able to quick fix.
- Have to be more agile.

How often? Daily?

- Not possible (apple takes days to review and play store needs a day)
- Plus users don't really like very frequent updates!



Crap It updates too often

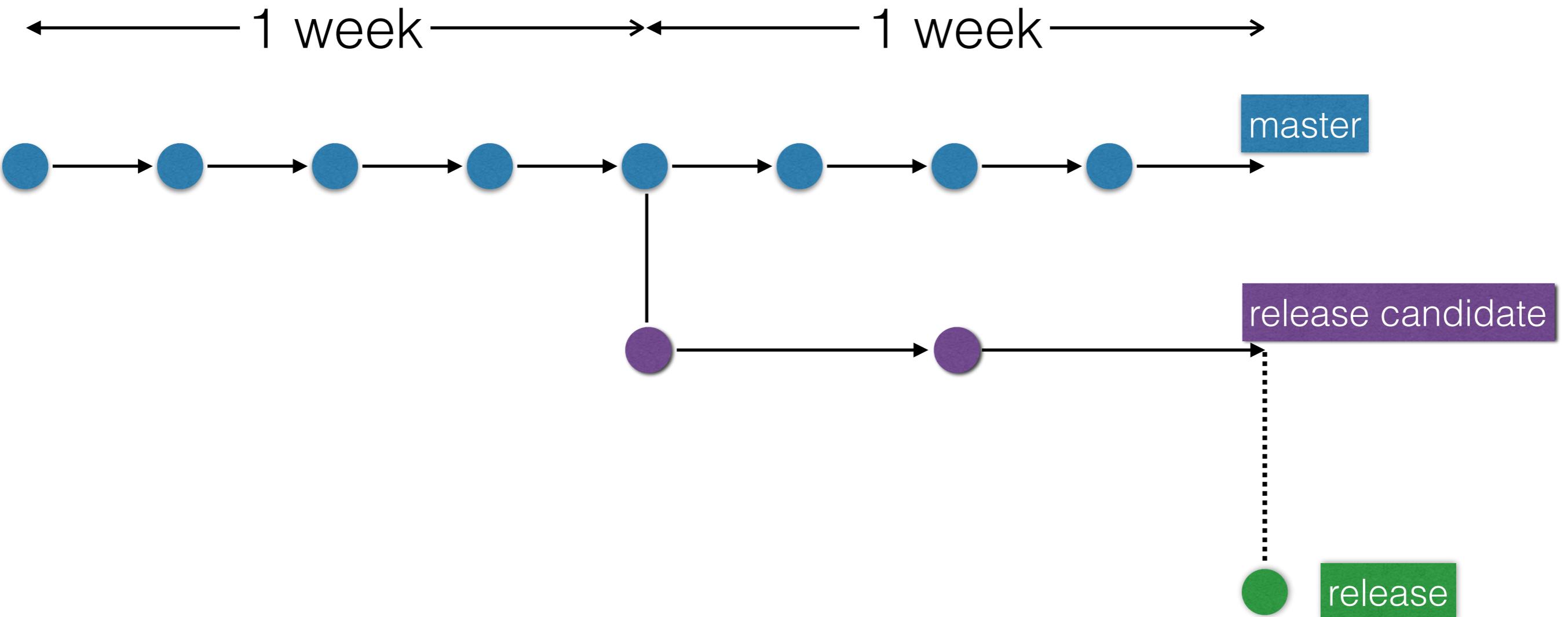


Have to fight auto update Have to fight auto update all the time



Never ending updates Its getting frustrating to update this program every time i just wanna look something up

How often?



Native ops

- A dedicated team responsible for release engineering.

Step 1:
Preparing a release version

Things you do once

- Choose a suitable package name.
- Create a certificate for signing your app.
- Decide if it will be free or paid.
- Decide what platforms and screens to support.

Things you do every time

- Update version code and name.
- Remove logging and debugging.
- Verify your manifest and permissions.
- Makes sure the server is pointing to production.

Things you do every time

- Shrink and obfuscate your app.



```
android {  
    defaultConfig {}  
    buildTypes {  
        release {  
            minifyEnabled true  
            proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'  
        }  
    }  
}
```

Things you do every time

- Sign your app
- .. manually: Build -> Generate signed APK
- or automatically:



```
android {  
    defaultConfig {}  
    signingConfigs {  
        release {  
            storeFile file("myreleasekey.keystore")  
            storePassword "password"  
            keyAlias "MyReleaseKey"  
            keyPassword "password"  
        }  
    }  
    buildTypes {  
        release {  
            signingConfig signingConfigs.release  
        }  
    }  
}
```

Step 2: Prepare your listing

- Description and what's new text (localized)
- App icon, graphics and screenshots

Launcher Icon Generator

Foreground

[IMAGE](#) [CLIPART](#) [TEXT](#)[TRIM](#) [TRIM](#) [DON'T TRIM](#)PADDING  0%

Color

For transparent foregrounds

  0%

Scaling

[CROP](#) [CENTER](#)

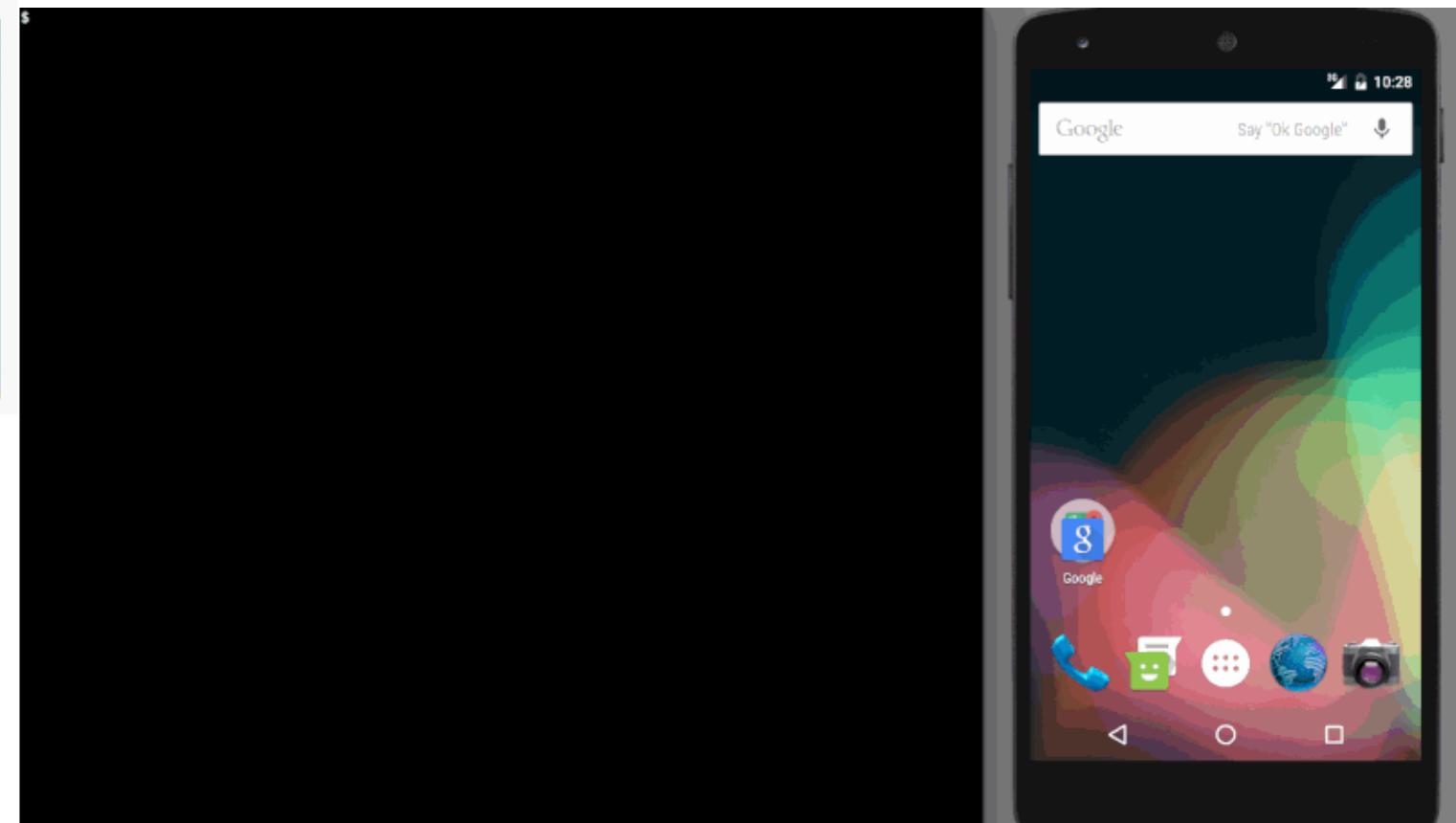
Shape

[NONE](#) [BEVEL](#) [SQUARE](#) [CIRCLE](#) [VERTICAL RECTANGLE](#) [HORIZONTAL RECTANGLE](#)

Background



Effect

[NONE](#) [LONG SHADOW](#) [SCORE](#) [DOG-EAR](#)[DOWNLOAD .ZIP](#) [GENERATE WEB ICON](#)

Step 3: Uploading your apk



- Retrieves and edits meta data.
- Uploads your apk automatically.
- Uploads promos and graphics.

```
fastlane_version "1.97.2"

default_platform :android

platform :android do

  desc "Alpha release app. Deploy a new version to the Google Play Store - Alpha channel"
  lane :alpha do |options|
    gradle(task: "clean")

    gradle(task: "assemble")

    sign_apk(
      keystore_path: "${HOME}/keyvault/android.jks",
      alias: "android-fastlane-example",
      storepass: options[:storepass],
      tsa: "http://timestamp.comodoca.com/rfc316",
    )

    zipalign(apk_path: "#{lane_context[SharedValues::SIGNED_APK_PATH]}")
    gradle(task: "test")

    supply(
      track: 'alpha',
      apk: "#{lane_context[SharedValues::SIGNED_APK_PATH]}"
    )
  end
end
```

[fastlane / examples](https://github.com/fastlane/examples)

Code Issues Pull requests Projects Pulse Graphs

Collection of example fastlane setups <https://fastlane.tools>

139 commits 1 branch 0 releases 17 contributors

Branch: master New pull request Find file Clone or download

KrauseFx committed with mfurtak Remove not about submitting Fastfile (#36) Merge branch 'master' of github.com:fastlane/examples Latest commit e271b74 3 days ago

Acast Added logos 2 years ago

Artsy/eidolon Updated BeMyEyes Fastfile 6 months ago

Fabric Add Fabric app fastlane files 8 months ago

Fitbay Removed autogenerated documentation header a year ago

Logos Add SoundCloud to Fastlane examples 7 months ago

MindNode Add simulator that iTunesConnect requires 3 months ago

MyDayToDo added the framed screenshots to show what they look like once framed ... a month ago

ProductHunt Updated Product Hunt config to use pilot 6 months ago

SoundCloud Add SoundCloud to Fastlane examples 7 months ago

SunApps (Typo fix)dynamic -> dynamic 10 months ago

Timehop Simplified Timehop Fastfile 8 months ago

Touchwonders Update links to fastlane docs (#30) 3 months ago

Wikipedia Fix getting version number 9 days ago

.gitignore Adds Acast 10 months ago

README.md Remove not about submitting Fastfile (#36) 3 days ago

README.md

 fastlane

fastlane Example Setups

This repository contains a few `fastlane` example setups that help you getting started.

Acast



Simple setup, saving tons of time

- Slack notifications on failed builds or unsuccessful tests
 - Slack notifications are only fired if they're run on our CI
- Managed provisioning profiles using `match`
- Creation of screenshots using `snapshot`
 - Text and device frames are added to screenshots using `frameit`
 - Delivered to iTunes Connect using `deliver`
- Submission to App Store using `gym` and `deliver`

[Overview](#) • [Fastfile](#) • [Appfile](#) • [Deliverfile](#) • [Gymfile](#) • [Matchfile](#) • [Scanfile](#) • [Snapshotfile](#) • [Framefile](#)

Timehop



Traveling in time using fastlane

- Automatic generation of the changelog
- Advanced manual key management
- Printing out random squirrels and boats
- Table flips

[Overview](#) • [Fastfile](#)

Fitbay



Full stack deployment

- Crashlytics, TestFlight, and App Store distribution
- Automatic build environment selection
- Managing of Provisioning Profiles
- Slack Team notifications
- Version number bump and Git commit
- Custom scripts
- Lane switching with private lanes

[Overview](#) • [Fastfile](#)

Fabric app



Standard Setup

- Deploy updates through Crashlytics Beta
- Submit to the AppStore with screenshots and metadata
- Code generation for xib names, identifiers, etc using `R.swift`

[Overview](#) • [Fastfile](#) • [Snapshotfile](#) • [Appfile](#)

Artsy eidolon



Standard Setup

- Building and Signing of the iOS App
- Version Bump & Git Actions
- Hockey Distribution
- Production Keys

[Overview](#) • [Fastfile](#)

Wikipedia by Wikimedia Foundation



Advanced - Multiple Environments

- Different Bundle Identifiers per Lane
- Advanced Testing
- Hockey Deployment
- App Store and TestFlight Deployment
- Custom `fastlane` actions like automatic change-logs based on git

[Overview](#) • [Fastfile](#) • [Deliverfile](#) • [Appfile](#) • [Metadata](#)

SoundCloud



Standard Setup

- Deployment to iTunes Connect
- Building acceptance tests builds with Frank
- Managing Certificates/Provisioning Profiles
- CI steps as lanes
- Project setup

[Overview](#) • [Fastfile](#)

Firefox by Mozilla



Advanced - submodules and custom actions

- Different Bundle Identifiers per Lane
- Custom enterprise deployment
- `snapshot` setup with UI Tests
- Advanced shell scripting

[Overview](#) • [Fastfile](#) • [Snapshotfile](#) • [SnapshotTests.swift](#) • [Custom Actions](#)

MindNode



Advanced iOS/Mac Setup

- Mac and iOS Universal App
- App Store and TestFlight Deployment
- Automated Screenshots
- Screenshot Framing & Adding of Titles
- Copying of example data for screenshots
- Custom `xcodebuild` command

[Overview](#) • [Fastfile](#) • [Snapshotfile](#) • [MindNode.js](#) • [screenshots](#) • [Framefile.json](#) • [MacScreenshots](#)

Product Hunt



Standard Setup

- App Store and TestFlight Deployment
- Managing of Provisioning Profiles
- Push Notifications
- Version Bump & Git Actions

[Overview](#) • [Fastfile](#) • [Deliverfile](#) • [metadata](#)

Be My Eyes



Standard Setup

- App Store and TestFlight Distribution
- Local action `get_global_value`
- Version Bump & Git Actions

[Overview](#) • [Fastfile](#) • [Deliverfile](#) • [get_global_value](#)

SunApps



App Factory

- Maintain and Deploy hundreds of Apps
- Automatically create new Apps
- Create profiles and push certificates
- Screenshots
- Remote configuration of `Fastfile` and `snapshot` scripts

A description on how the setup works is available in the [Overview](#).

[Overview](#) • [Fastfile](#) • [Deliverfile](#) • [Snapshotfile](#) • [Appfile](#) • [snapshot.js](#)

Controlling the release

Alpha/Beta channels

Google play | Developer Console

RPM user@gmail.com Sign out ?

RPM com.games.rpm View in Play store

PUBLISHED 4 December 2014

Statistics User Acquisition Finance Ratings & Reviews Crashes & ANRs Optimisation Tips Cloud Test Lab GCM Diagnostics

APK

PRODUCTION Versions 763,820

BETA TESTING Versions 822

ALPHA TESTING Set up Alpha testing for your app

Switch to simple mode

BETA CONFIGURATION

MANAGE TESTERS

Choose how to run your testing programme. [Learn more](#)

● OPEN BETA TESTING Switch to another type of beta testing

Maximum number of testers If you set a maximum number of testers, the number needs to be at least 1000.

Feedback channel

5	10	5	2	20	Issues
5	Accepted	5	Installed	2	Launched
5	10	5	2	20	Issues
5	Accepted	5	Installed	2	Launched

Andrea Falcone tester@crashlytics.com

Marshall Moutenot tester@crashlytics.com

Mike Furtak tester@crashlytics.com

Sam Phillips tester@crashlytics.com

Joan Smith tester@crashlytics.com

Top Issues

71	CRASHES
JsonClient.java line 136	demo.app.network.JsonClient.getRedis...
28	CRASHES
DownloadAppTask.java line 45	demo.app.tasks.DownloadAppTask.do...
19	CRASHES
ApkDownloadClient.java line 59	demo.app.network.ApkDownloadClient...
11	CRASHES
AirService.java line 443	demo.app.core.Service.checkForUpda...

Tester Activity

Launched	Installed	Accepted	Invited
Sam Phillips	tester@crashlytics.c...	4 hours ago	
Joan Smith	tester@crashlytics.c...	1 day ago	
David Fisher	tester@crashlytics.c...	2 days ago	
Sam Robbins	tester@crashlytics.c...	3 days ago	

Developer Activity

Added testers (4)	Removed testers	
Sam Phillips	tester@crashlytics.c...	a day ago
Sam Phillips	tester@crashlytics.c...	6 days ago

Staged rollouts

STAGED ROLLOUT FOR PRODUCTION

With a staged rollout, you can publish your app to a certain percentage of the market first to make sure your app works properly before rolling it out to everybody.

Publish this app to

- 5%
- 10% 
- 20%
- 50%
- 100%

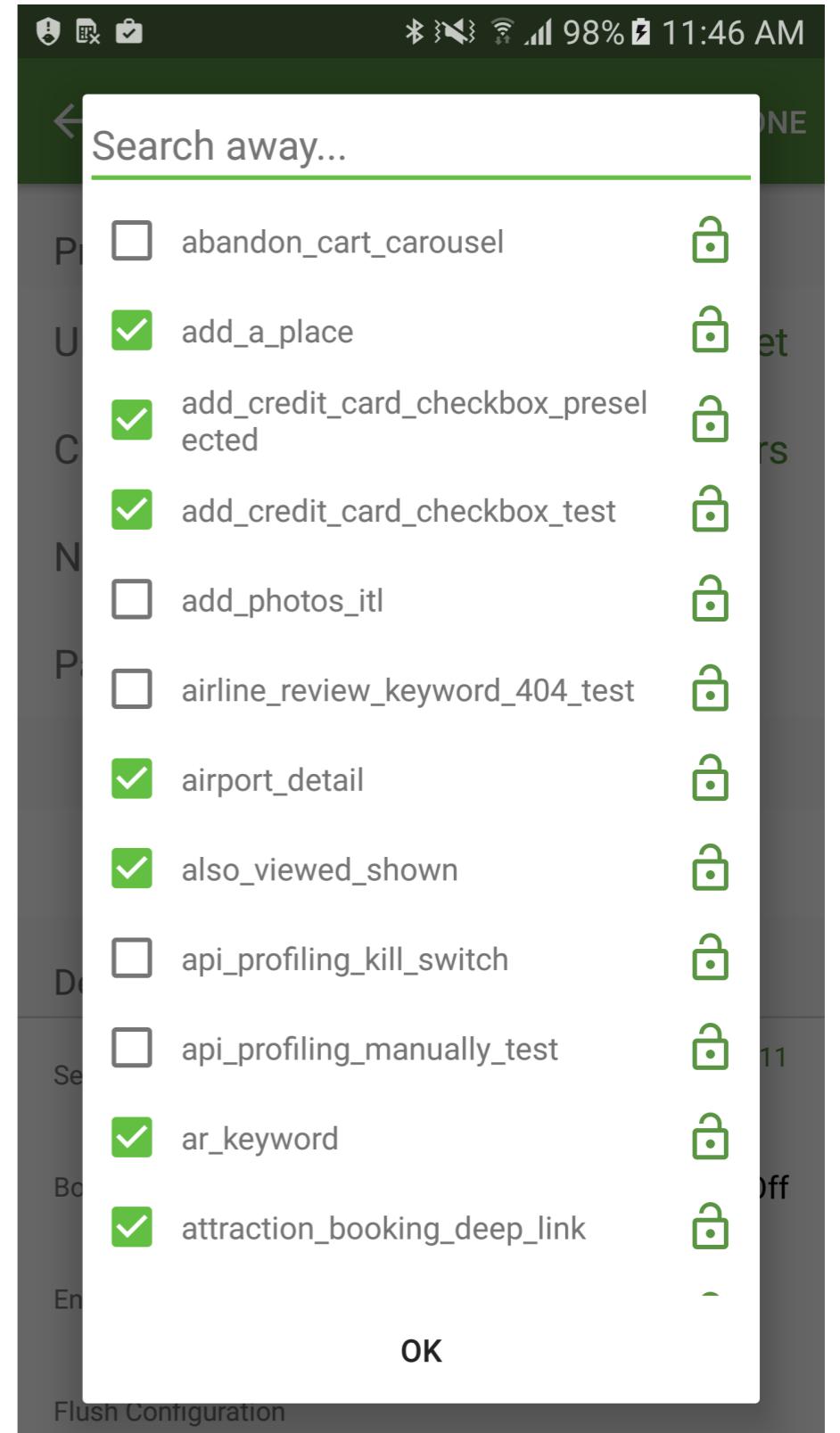
full rollout, completely replaces the old configuration

Save and publish

Cancel

Feature switches

- Feature switches that get set through a periodic configuration call





TESTING

Unit tests

```
public int addOne(int number) {  
    return number + 1;  
}  
  
@Test  
public void testAddOne_NegativeNumber_CorrectOutput() {  
    int result = addOne(-2);  
    Assert.assertEquals(-1, result);  
}
```



Run on every pull request

OK	Running	Queued	Aborted	Skipped	Retrying	Up	Down	Green	Yellow	Blue	Red	Grey	More
testAttachView_ValidPromoFeatureOn_BannerGetsShown													17s 634ms
testAttachView_ValidPromoFeatureOff_BannerGetsHidden													94ms
testAttachView_NullPromoFeatureOn_BannerGetsHidden													48ms
testAttachView_EmptyPromoFeatureOn_BannerGetsHidden													41ms
testSetTitle_TitleMissingFromApiResponse_GetsSetFromLocation													46ms
testSetTitle_TitleInApiResponse_GetsSetFromApiResponse													34ms
attractionProductResponseSuccessTriggersLoadMoreResult													23ms
testOnLoadMoreReached_MultipleViewsOfLoadMore_DoesNotTriggerMultipleTrackings													38ms
testOnEndOfPageReached_MultipleViewsOfEndOfPage_DoesNotTriggerMultipleTrackings													43ms
testAttachView_CurrentResultsAndTotalResults_ProperlySentToView													38ms
testAttachView_NotAllPagesLoaded_ShowMoreButtonGetsShown													37ms
testAttachView_AllPagesLoaded_ShowMoreButtonGetsHidden													30ms
testAttachView_LoadProductFailure_ShowsLoadingError													44ms
testAttachView_LoadProductSuccess_HidesLoadingView													34ms
testAttachView_SuccessResponse_PartnerPhoneLookupProperlyLoadedFromResults													74ms
testProductGetsSelected_CorrectCustomerServiceNumberPassedOn													47ms
AttractionProductReviewsHistogramViewTest	OK												9s 706ms
testThatHistogramGetsHiddenOnZeroCount	OK												9s 706ms
AttractionProductTourGradesPresenterTest	OK												700ms
testLoadData_WithInvalidArguments_ShowsError	OK												131ms



Native Jenkins

[BuildStarted android-stash-sonar-pull-requests]

Reply · Create task · Like · 21 mins ago

UI & Integration tests

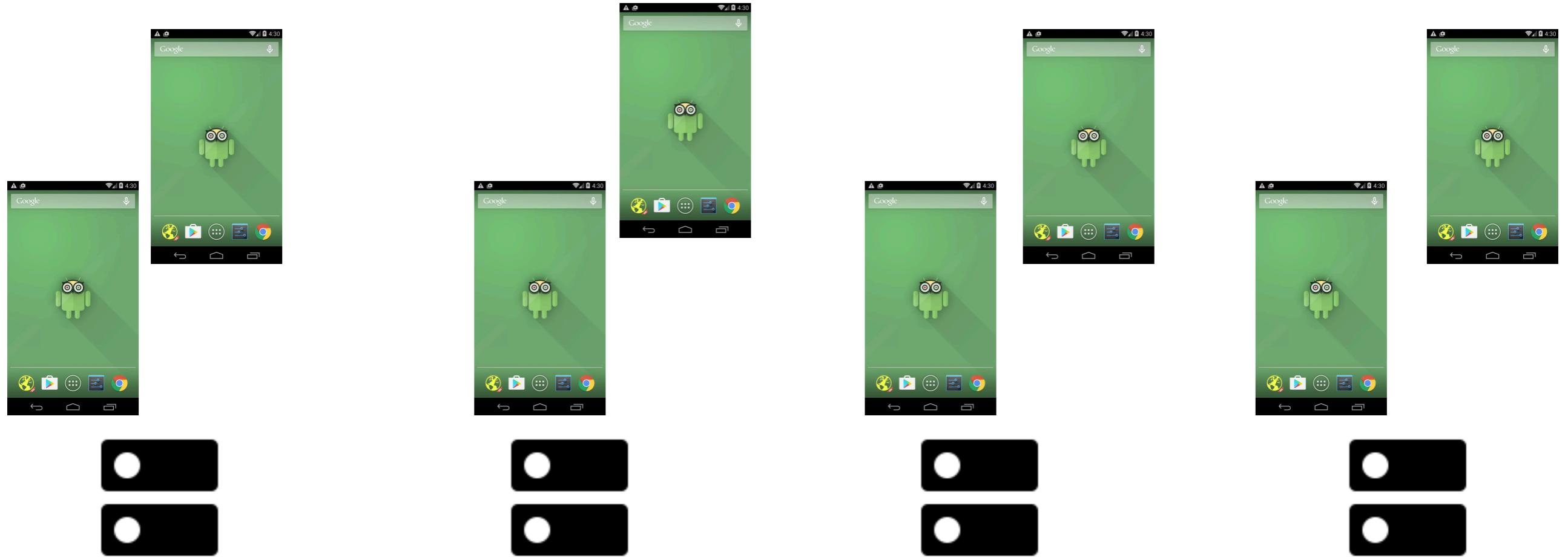
```
onView(withId(R.id.my_text_view))  
    .check(matches(withText("Hello World!")));
```



UI TESTING FOR ANDROID
espresso



Run every 6 hours



alternatively...

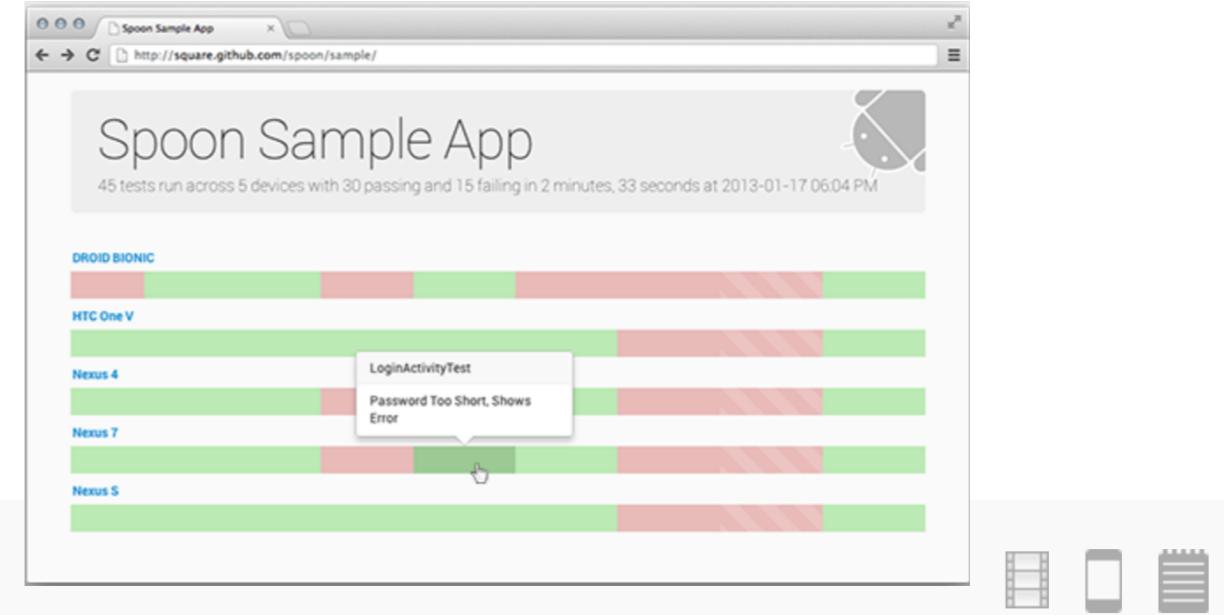


 Test Lab for Android

S	W	Name ↓	Last Success	Last Failure	Last Duration
		android-app-upgrade-test	22 hr - #126	22 hr - #125	28 min
		android-app-upgrade-test-runner-trigger	22 hr - #44	5 days 21 hr - #38	54 min
		Android-Pull-Request-Observer	1 min 41 sec - #1509	21 days - #1105	25 sec
		android-sonar-mainline	1 mo 20 days - #832	1 mo 20 days - #853	8 min 47 sec
		android-sonar-runner-linux	39 min - #2811	N/A	18 min
		android-stash-mainline	54 min - #1888	N/A	28 min
		android-stash-pull-requests	40 min - #8041	N/A	8 min 48 sec
		android-stash-sonar-pull-requests	40 min - #2949	N/A	19 min
		android-stash-timeline-team	1 mo 23 days - #176	N/A	9 min 42 sec
		android-test-all	N/A	18 hr - #30	3 hr 4 min
		android-test-runner	5 mo 29 days - #8743	6 mo 0 days - #8722	7 min 5 sec
		android-test-runner-linux	39 min - #22676	2 hr 6 min - #22672	8 min 0 sec
		android-test-runner-linux-flights	2 mo 10 days - #175	2 mo 9 days - #177	12 min
		android-test-runner-linux-marshmallow	3 hr 3 min - #760	1 hr 45 min - #763	22 min
		android-test-runner-trigger	1 hr 45 min - #8667	2 hr 49 min - #8665	24 min
		android-tests-attractions-mainline	20 hr - #909	2 hr 49 min - #912	52 min
		android-tests-attractions-prerelease	7 days 13 hr - #84	12 hr - #85	28 min

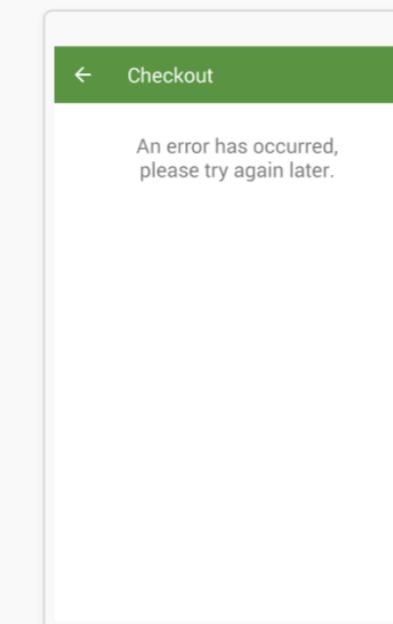
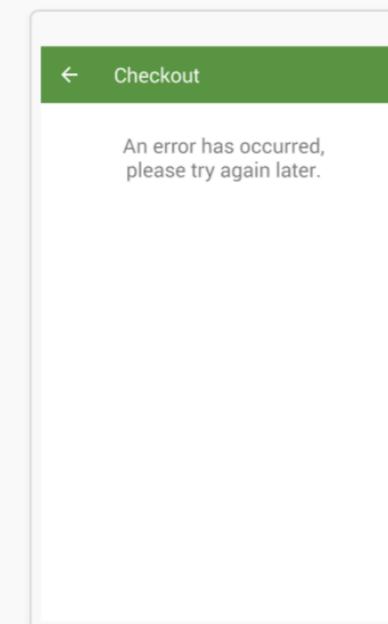
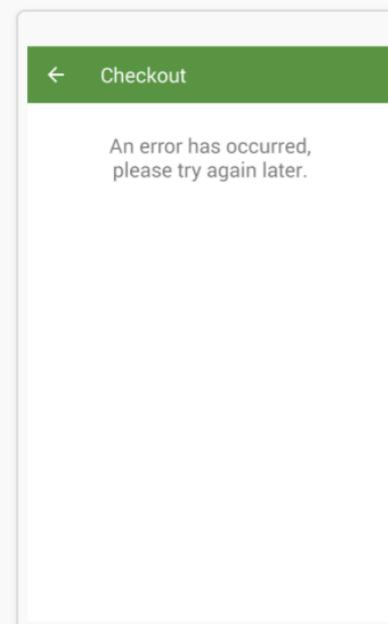
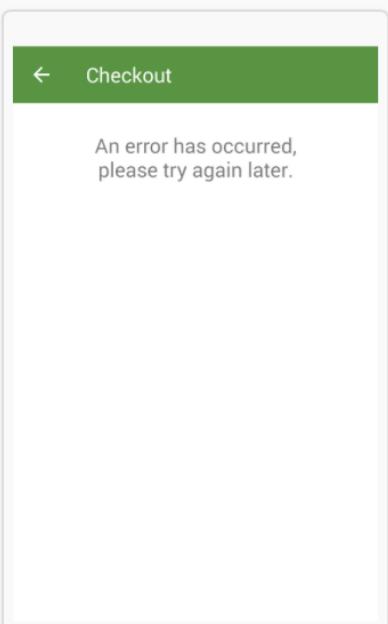
Spoon

Distributing instrumentation tests to all your Androids



End To End DAY, TOUR, Standard

android.support.test.espresso.PerformException: Error performing 'single click' on view 'with id: com.tripadvisor.tripadvisor.debug:id/attr_book_checkout_payment_card'.





android-ui-tests

jenkins android test results status, tests run every 6 hours - "Having flaky tests is as good as having no tests at all" - Steve Wozniak



...



fastlane · Nov-8 4:50 AM

SearchAndNav Build successful on mainline
[android-tests-nav-mainline #724](#)



fastlane · Nov-8 5:03 AM

SEM Build successful on mainline
[android-tests-sem-mainline #271](#)



fastlane · Nov-8 5:47 AM

Restaurants Build successful on mainline
[android-tests-restaurants-mainline #725](#)



fastlane · Nov-8 6:23 AM

MG Build successful on mainline
[android-tests-mg-mainline #420](#)



fastlane · Nov-8 7:30 AM

Community Build successful on mainline
[android-tests-community-mainline #579](#)



fastlane · Nov-8 7:33 AM

Engagement Build successful on mainline
[android-tests-engagement-mainline #727](#)



fastlane · Nov-8 7:48 AM

Attractions Build successful on mainline
[android-tests-attractions-mainline #908](#)



fastlane · Nov-8 8:16 AM

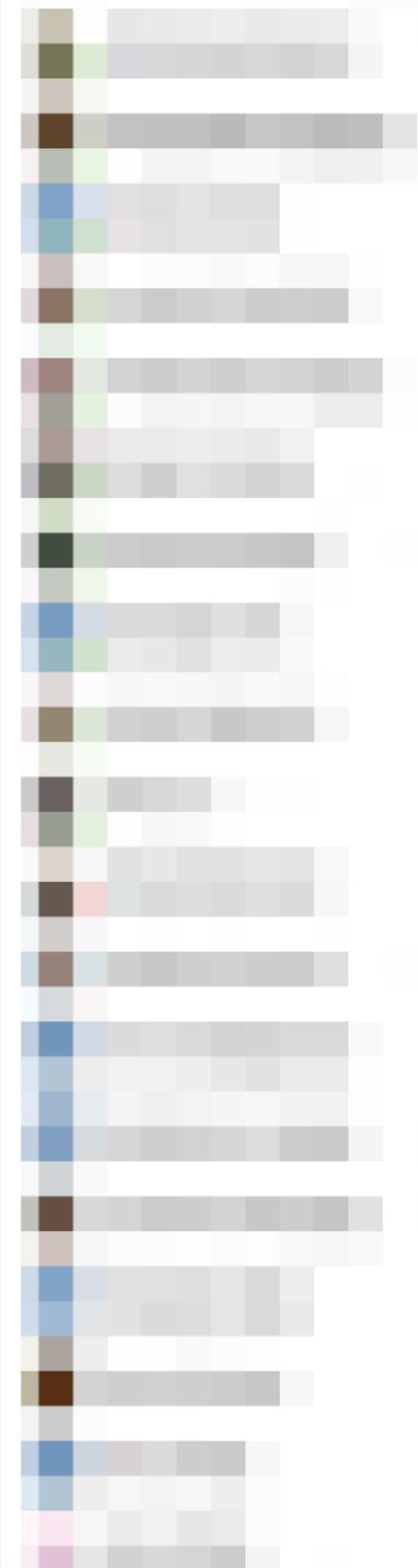
IBEX Build failed on mainline
[android-tests-ibex-mainline #723](#)



fastlane · Nov-8 8:24 AM

Flight Build successful on mainline

Members



|





Type	Priority	Estimate	References
Other	High	None	None
iOS Automated Test	Android Automated Test		
TripAdvisorEndToEndTests.TADownloadOfflineCityTests.testOfflineFullPackageDownload	com.tripadvisor.tripadvisor.test.DownloadOfflineTest		

Steps

- | | Step | Expected Result |
|---|--|---|
| 1 | Go to the geo page for Tokyo, Japan. | Page successfully displays. |
| 2 | Tap the <i>Download</i> button (right below the description of Tokyo) | Presented with the option to download the full or basic package. (Full includes photos, basic does not) |
| 3 | Select the option to download the full dataset. | Should complete within a few minutes and the dataset should successfully install. Dataset should include photos for POIs. |
| 4 | Note: if full package is downloaded, photos will begin to unpack in the background automatically, but you may notice that not all are visible if you go offline immediately. | |
| 5 | Put your phone into airplane mode and turn off wifi, then open the Restaurants list for Tokyo | There are restaurants on the list |
| 6 | Click into the top restaurant | The restaurant has 3 photos, name, and 3 reviews. |

Results & Comments ?

History & Context ?

Defects ?

Passed

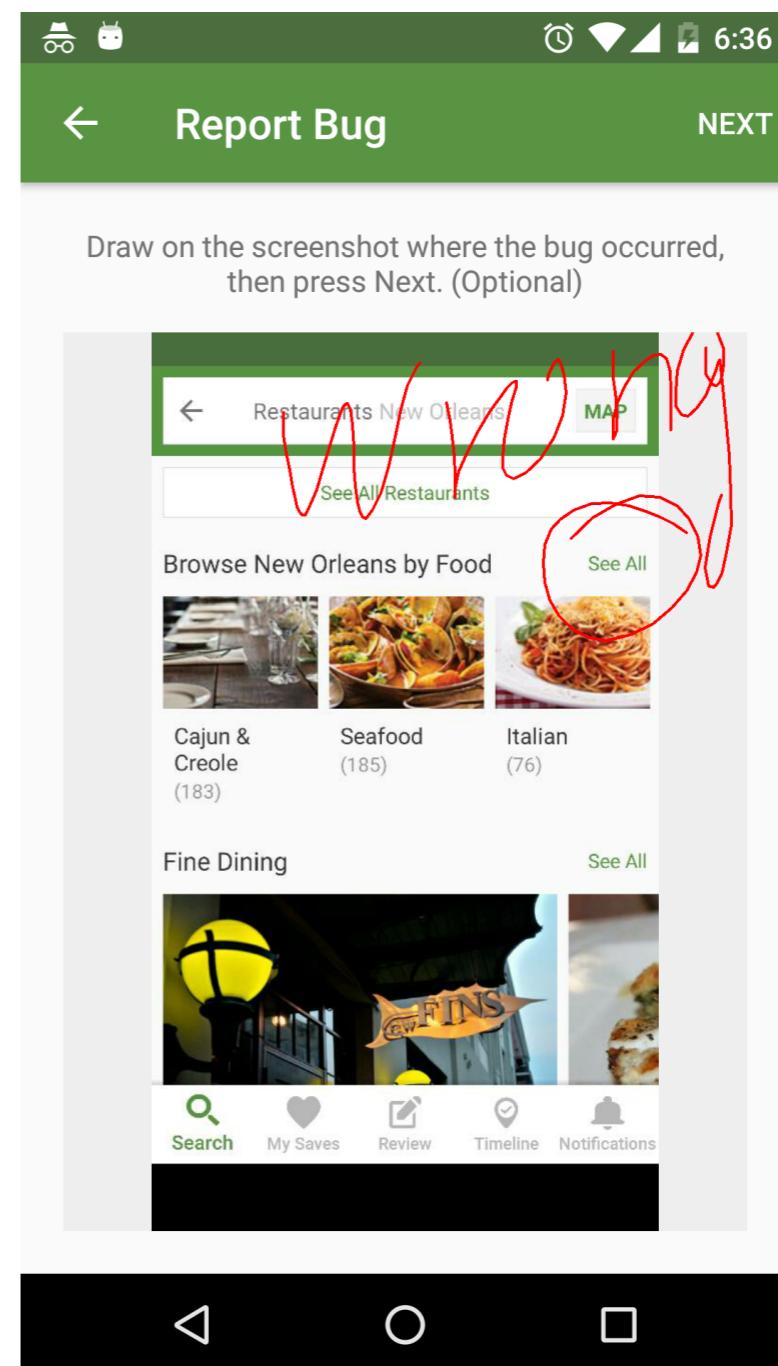
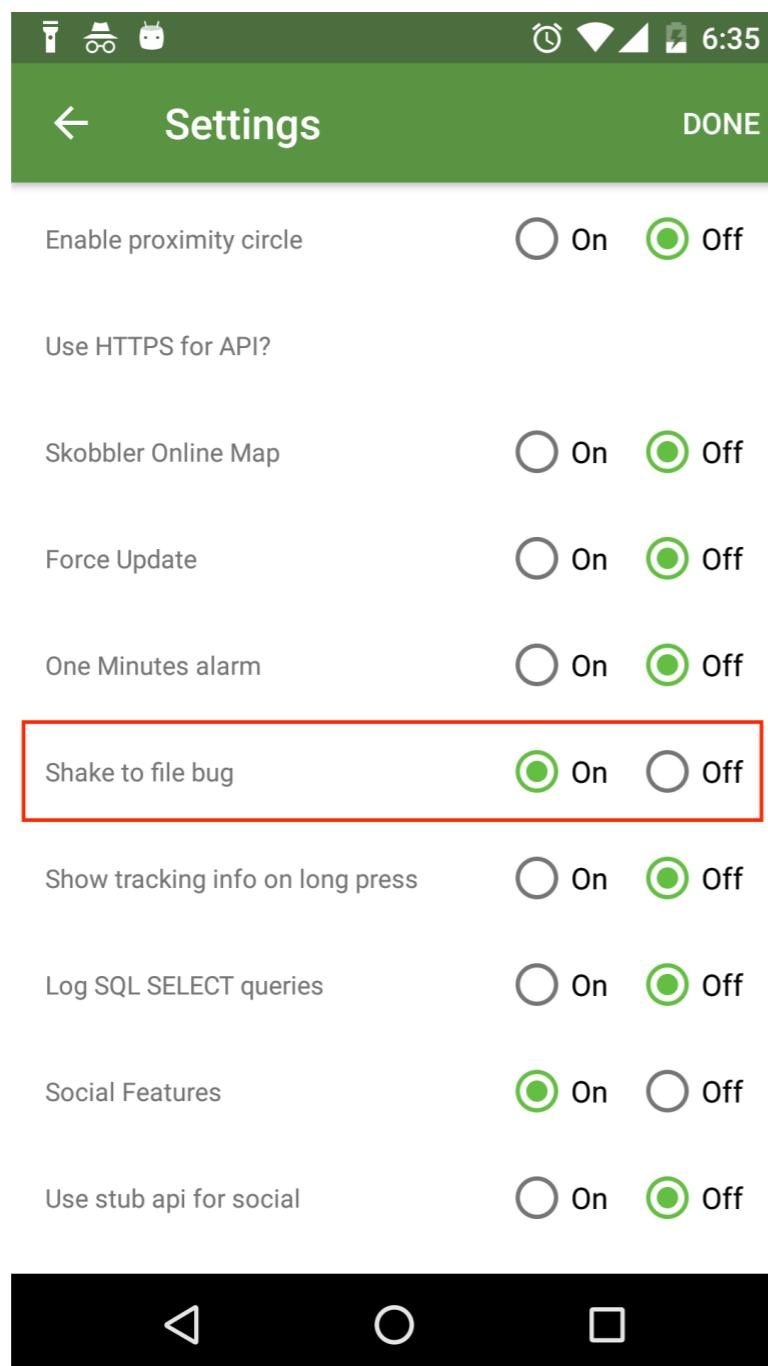
This test was marked as 'Passed'.

3/15/2016 12:56 PM Ollie the O.

Manual

- Device lab
- Emulated slow network
- Bug hunts with devs, pms, QA

Rage shake



Top excuses for not testing

#1 excuse: “Android is too hard to test.”

#2 excuse: “We were a small team and wanted to get the features to the users first. Now we will write all the tests.”

(not)

#3 excuse: “There are so many devices and ui tests are flaky that it is futile to test.”

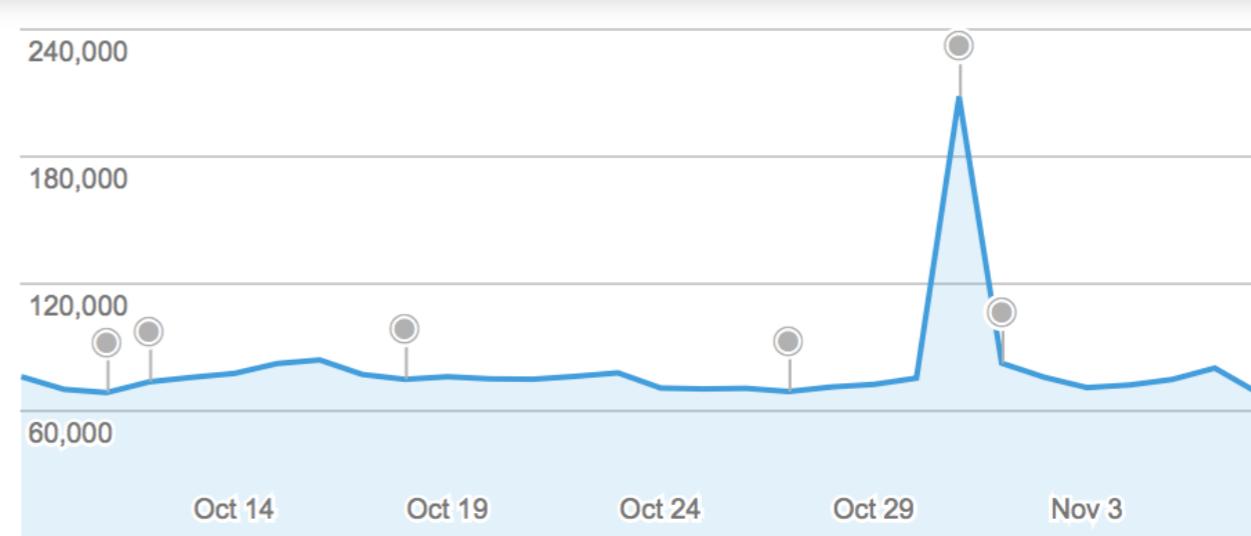
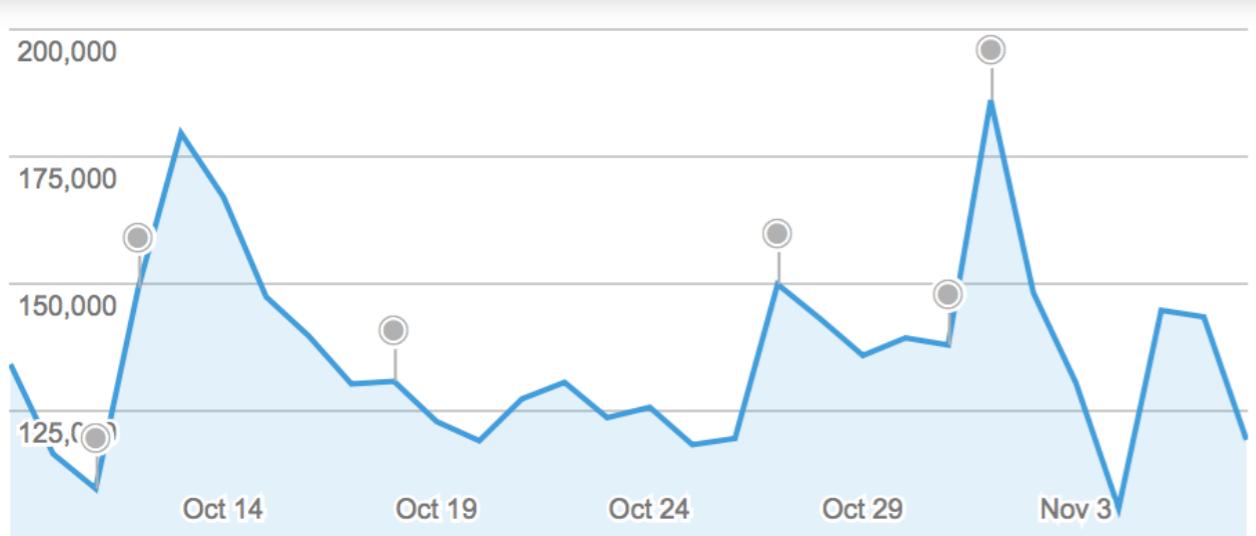
TEST

ALL THE THINGS!!!



MONITORING

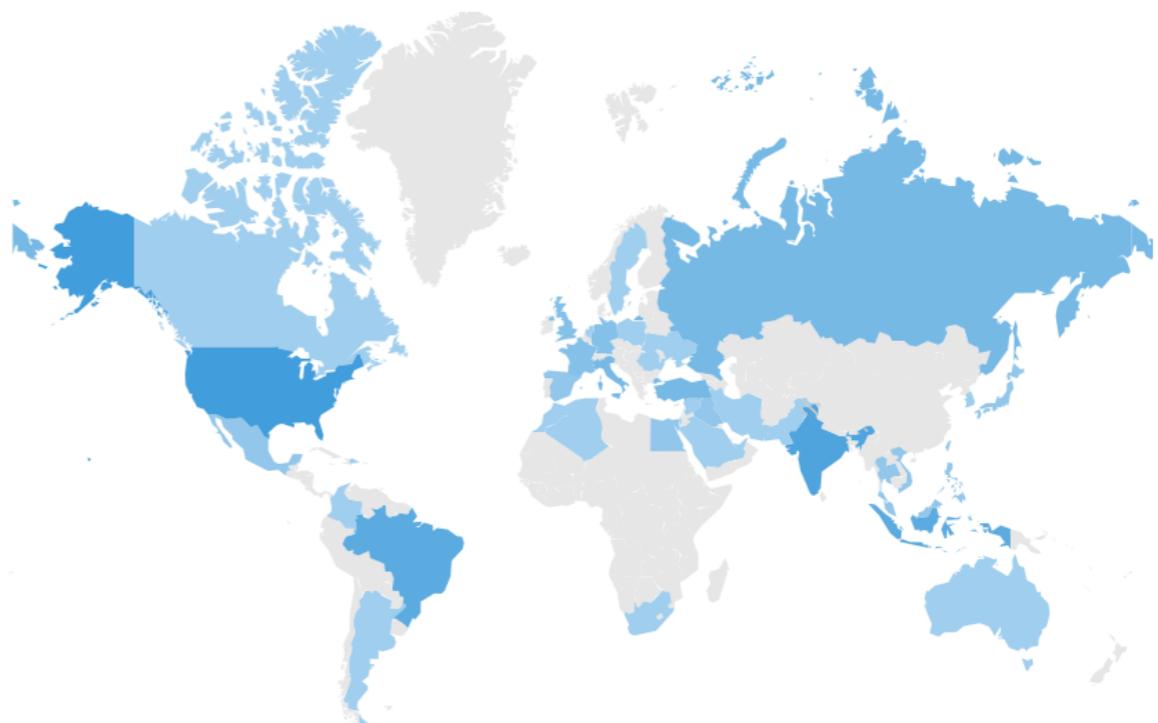
“If it’s worth doing, it’s worth measuring”



INSTALLS BY USER

[View details](#)

Top countries



AVERAGE RATING

[View details](#)**4.332**

Last 30 days

[View details](#)**-0.03**

vs previous 30 days

CRASHES

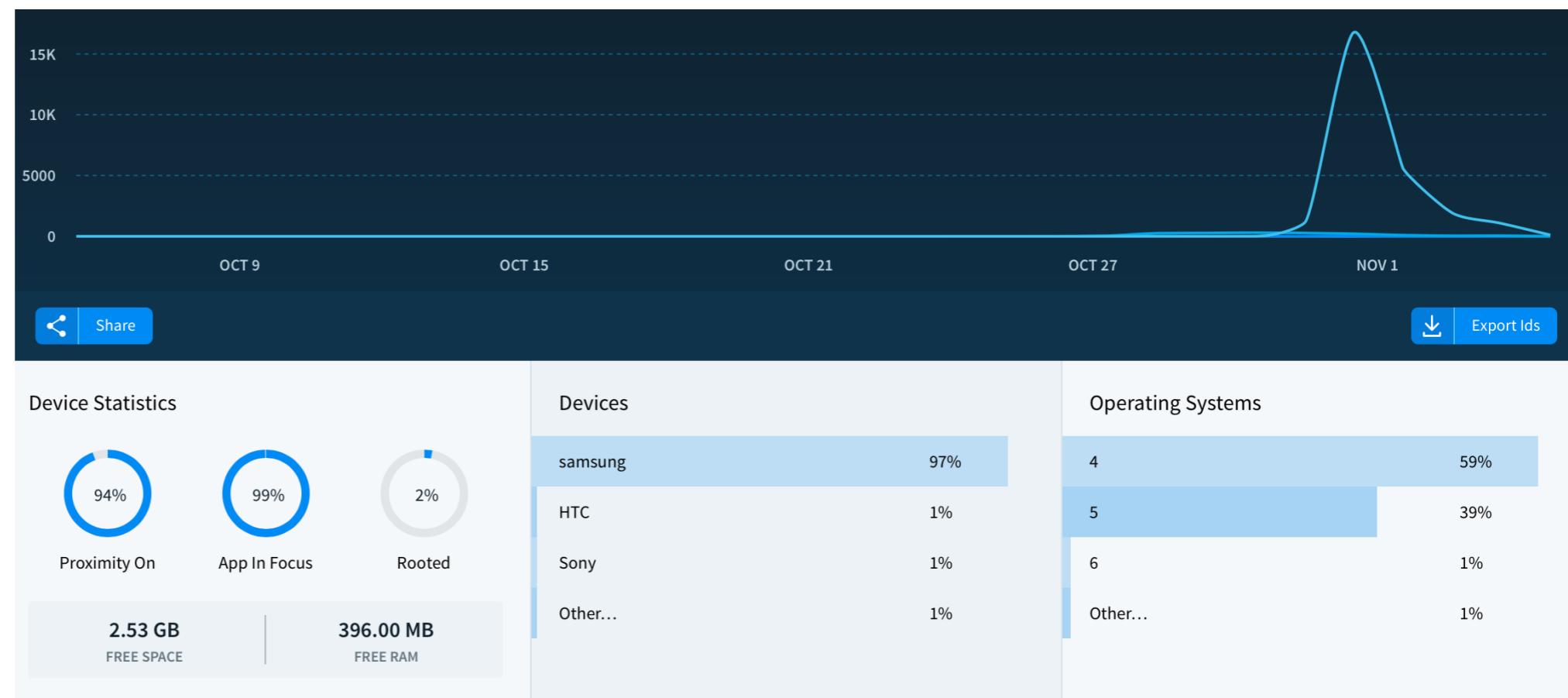
[View details](#)**7,625**

Last 30 days

+64%

vs previous 30 days

Crashes



Fatal Exception: android.view.InflateException

Binary XML file line #429: Binary XML file line #429: Error inflating class fragment

[Raw Text](#)

android.view.LayoutInflater.inflate (LayoutInflater.java:539)

android.view.LayoutInflater.inflate (LayoutInflater.java:423)

android.support.v4.app.Fragment.performCreateView (SourceFile:2080)

android.support.v4.app.FragmentManagerImpl.executePendingTransactions (SourceFile:589)

android.os.Handler.handleCallback (Handler.java:739)

com.android.internal.os.ZygoteInit.main (ZygoteInit.java:616)

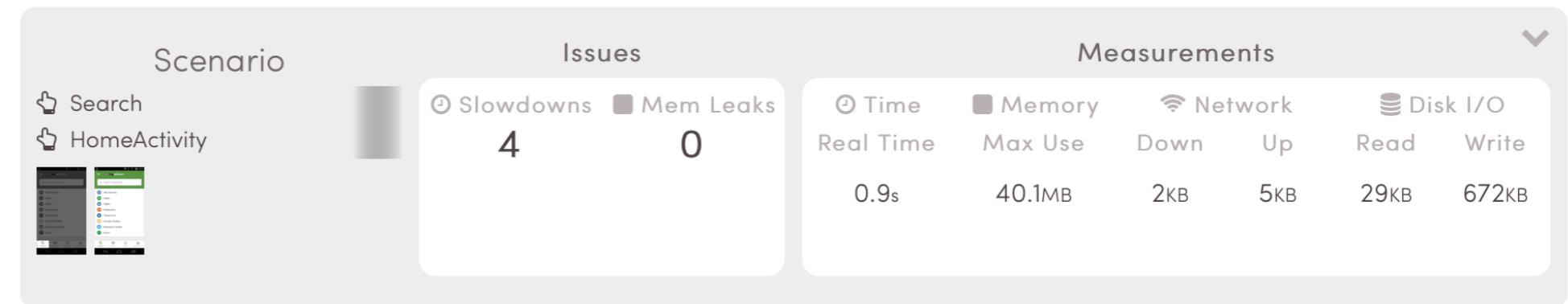
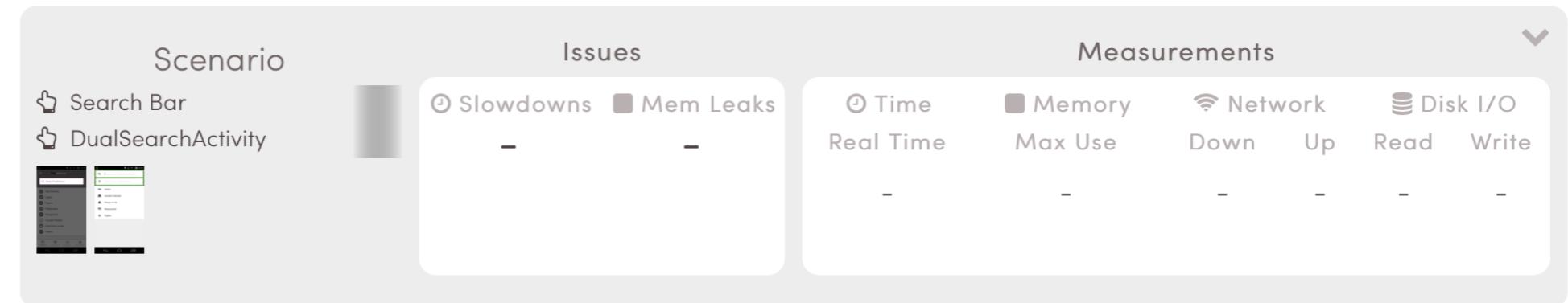


Performance

- Time it takes for screens to appear
- Battery consumption
- API latency
- Average response size

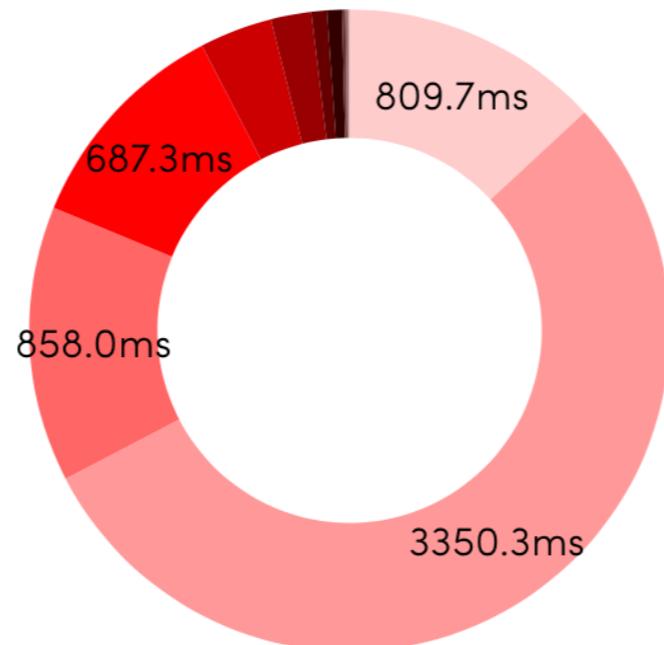
```
PerformanceLog performanceLog = ApiLogger.startProfiling(tag, "action");
ApiLogger.ex(TAG, new Exception("API call failed, throwable was 'null'."));
```

nimbledroid



CPU Time by Dependency

nimble



■ Application ■ Joda-Time ■ Jackson JSON Parser ■ Fabric ■ Android Support ■ OkHttp ■ Crashlytics
■ Google Play Services ■ RxJava ■ Picasso ■ Android Asynchronous Http Client ■ Guava Core Libs ■ Retrofit ■ Dagger

User metrics

- Session length
- Retention rate
- Daily Active Users
- Monthly Active Users
- Average Revenue Per User

13,251
ACTIVE USERS RIGHT NOW

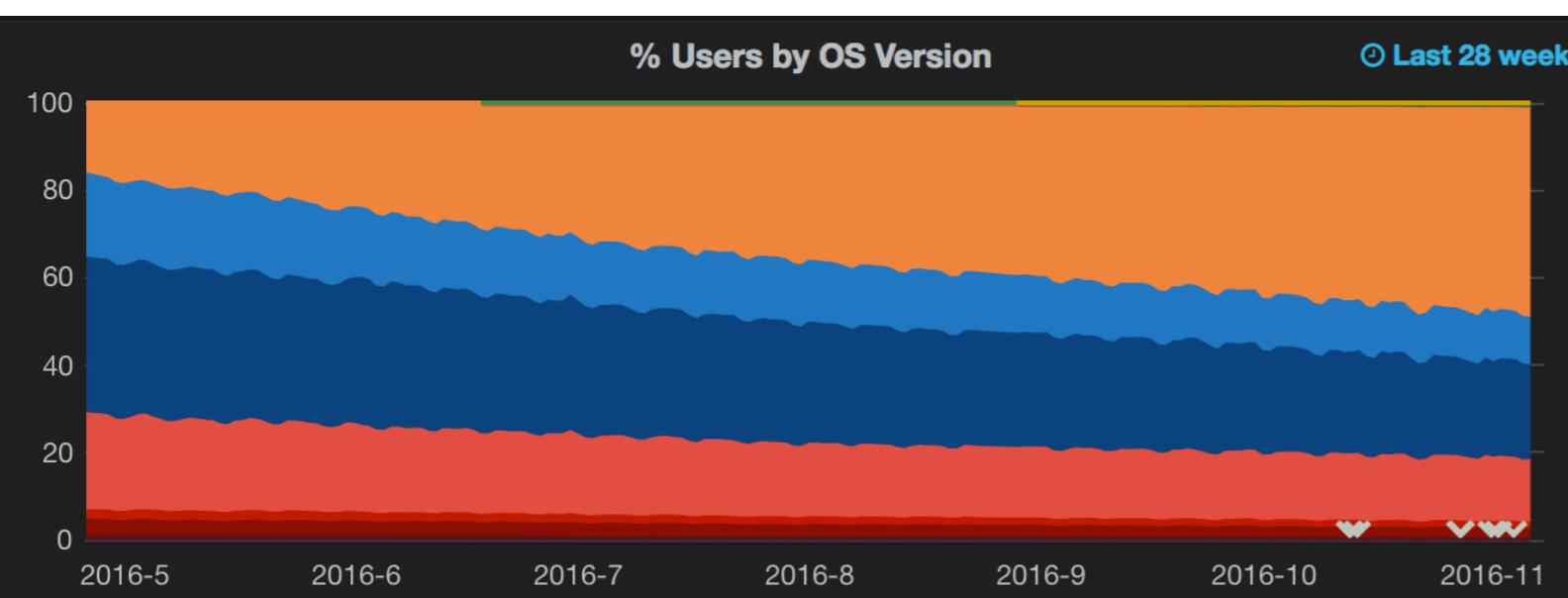


Daily active users



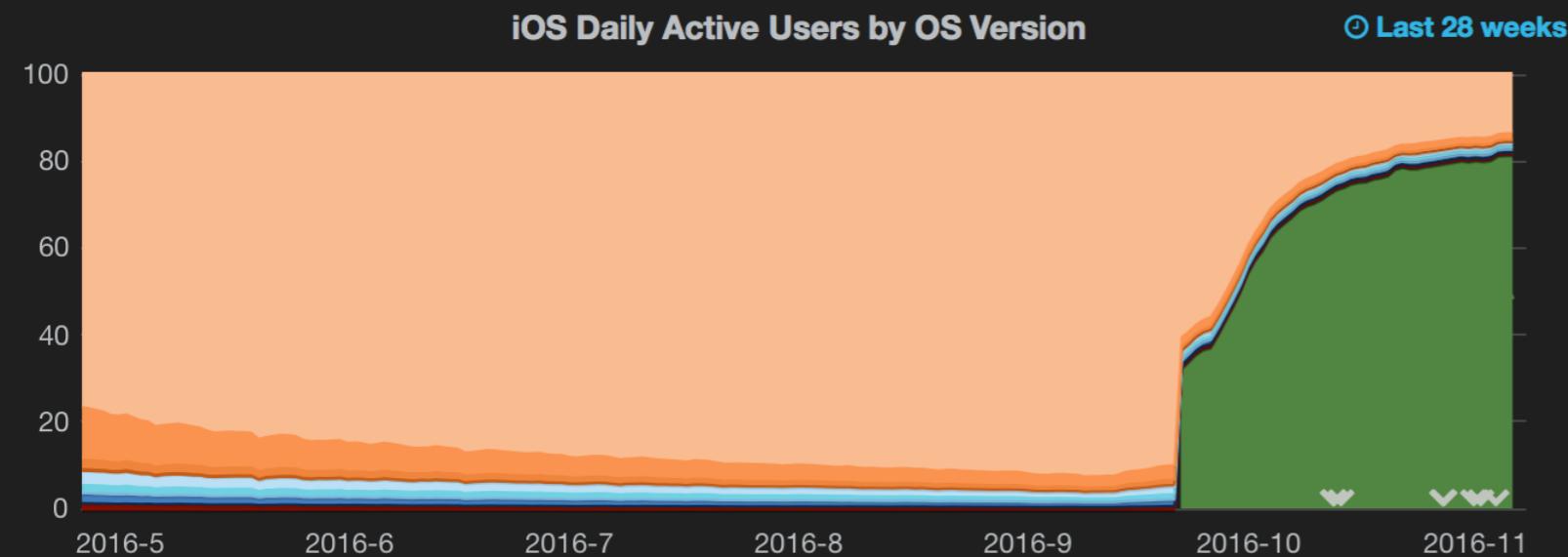
OS adoption rate

INSTALLS ON ACTIVE DEVICES ON NOV 5, 2016



2016-11-05 20:00:00

team.nativeops.daily.android.os_versions.4_0.dau:	574
team.nativeops.daily.android.os_versions.4_1.dau:	7.0420 K
team.nativeops.daily.android.os_versions.4_2.dau:	29.0330 K
team.nativeops.daily.android.os_versions.4_3.dau:	18.4490 K
team.nativeops.daily.android.os_versions.4_4.dau:	186.7050 K
team.nativeops.daily.android.os_versions.5_0.dau:	285.8670 K
team.nativeops.daily.android.os_versions.5_1.dau:	143.3690 K
team.nativeops.daily.android.os_versions.6_0.dau:	630.0090 K
team.nativeops.daily.android.os_versions.7_0.dau:	10.7170 K
team.nativeops.daily.android.os_versions.7_1.dau:	1.7470 K



2016-11-05 20:00:00

team.nativeops.daily.ios.os_versions.10_0.dau:	613.8470 K
team.nativeops.daily.ios.os_versions.10_1.dau:	425.6370 K
team.nativeops.daily.ios.os_versions.10_2.dau:	3.9260 K
team.nativeops.daily.ios.os_versions.10_0.dau:	44
team.nativeops.daily.ios.os_versions.6_1.dau:	348
team.nativeops.daily.ios.os_versions.7_0.dau:	756
team.nativeops.daily.ios.os_versions.7_1.dau:	2.9680 K
team.nativeops.daily.ios.os_versions.8_0.dau:	923
team.nativeops.daily.ios.os_versions.8_1.dau:	7.6530 K
team.nativeops.daily.ios.os_versions.8_2.dau:	2.0510 K
team.nativeops.daily.ios.os_versions.8_3.dau:	7.4730 K
team.nativeops.daily.ios.os_versions.8_4.dau:	9.7700 K
team.nativeops.daily.ios.os_versions.9_0.dau:	3.4730 K
team.nativeops.daily.ios.os_versions.9_1.dau:	7.1800 K
team.nativeops.daily.ios.os_versions.9_2.dau:	19.0640 K
team.nativeops.daily.ios.os_versions.9_3.dau:	169.8970 K

- Android 5.0
- Android 4.4
- Android 6.0
- Android 5.1
- Android 4.2
- Android 4.3
- Android 4.1
- Android 7.0
- Android 4.0.3 - 4.0.4
- Android 2.3.3 - 2.3.7
- Others

Feature tracking

- Are users interacting with a feature?
- **A/B testing:** Which option is better?

Feature tracking at TA

```
coverPageBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        getTrackingAPIHelper().trackEvent(getLookbackServletName(),
            TrackingAction.COVER_PAGE_CLICK);
    }
});
```

Analytics tools



