### NATIVE RELEASE ENGINEERING AT TRIPADVISOR





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



# 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



TOP 10 / STAGED ROLLOUT / BETA / ALPHA	YOUR APP	
<b>V</b> 161024016	44,377,840	55.01%
161010007	11,591,359	14.37%
160926013	3,824,963	4.74%
<b>160829013</b>	2,510,213	3.11%
<b>160912010</b>	1,560,489	1.93%
<b>160801020</b>	1,376,117	1.71%
161024015	1,104,022	1.37%
<b>160815020</b>	845,101	1.05%
160704015	699,506	0.87%
160718014	667,039	0.83%
Others	12,110,891	15.01%

### Exceptions matter (a lot)



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

# Fragmentation

... makes testing harder

DEVICE FRAGMENTATION



# First impressions matter





### CODING IN SCALE





# Version control!



### Branch per feature



- 2. Code reviews
- 3.2+1s
- 4. Static analysis
- 5. Automated tests
- 6. Merge



### 2. Code reviews

3.2+1s

4. Static analysis

5. Automated tests

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Chrysanthi Chaleva created a pul	I request 21 Jul 2016			🗙 CMN-2783	3
https://jira.tripadvisor.com/browse// We had 4 features in the app that w was decided that they need to be n	CMN-2783 were requiring the user to login in certain actions as i emoved. I coincidentally was doing some work on th	in tappin is part o	g the photo viewer for example. Those were CMN tests and it f the code so there you go :)	⑦ Learn mor	e
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What do you want to say?					
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2. Code reviews

### 3.2+1s

- 4. Static analysis
- 5. Automated tests

Overview Diff	Commits							
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Chrysanthi Ch	aleva MERGED bugfix/CMN-2783-android	d-soft-gate-on-photo-	-removal	to mainline in commit 9e1e2	2595b1a 21 Jul 2016			
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2. Code reviews

3.2+1s

### 4. Static analysis

5. Automated tests

Details	🗘 1 build 🥝
Chrysanthi Chaleva created a pull request 21 Jul 2016	🛱 CMN-2783
https://jira.tripadvisor.com/browse/CMN-2783	
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What do you want to say?	
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Native Jenkins         [BuildFinished android-stash-sonar-pull-requests] 98£77feb3019eaed£74bc99bb51bfa2c67fa4e92 into 0012         ✓ BUILD SUCCESS - Build #334 which took 26 min         Reply · Create task · Like · 21 Jul 2016	24ccad2e1b88d85f5bef86ab48438c508d7b1
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2. Code reviews

3.2+1s

- 4. Static analysis
- 5. Automated tests

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2. Code reviews

3.2+1s

4. Static analysis

5. Automated tests

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h h	ittps://jir	a.tripad	visor.com/browse/CMN-2783	(?) Learn mo	ore
W W	Ve had vas deci	4 featur ded tha	es 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 t they need to be removed. I coincidentally was doing some work on this part of the code so there you go :)	0	
Activit	ty				
	What do	you wa	ant to say?		
C	hrysar	thi Cha	aleva MERGED bugfix/CMN-2783-android-soft-gate-on-photo-removal to mainline in commit 9e1e2595b1a 21 Jul 2016		
	<b>lative J</b> BuildFin	enkins ished a	ndroid-stash-sonar-pull-requests] 98f77feb3019eaedf74bc99bb51bfa2c67fa4e92 into 00124ccad2e1b88d85f5bef86ab48438c50	08d7b1	
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	ap     ap	079 079 080 081 082 083 084 085 - - - - - - - - - - - - - - - - - - -	<pre>WobleLibrary / src / main / java / com / tripadvisor / android / lib / tamobile / activities / LocationDetailActivity.java  final int photoBeight = (mainPhotoSize / 2) - paddingHeight; final View photoFrameSmallTop = findViewById(R.id.photoFrameSmallTop); setLayoutParamForView(photoFrameSmallTop, photoWidth, photoHeight); // } //show login page before redirecting user to gallery private void startPhotoViewer() {  final TAFragmentActivity activity = getActivity();  if (activity != null &amp;&amp; !LoginHelper.isLoggedIn(activity) &amp;&amp; sGatePhotoClick &amp;&amp;  ShafaatDoost e sGatePhotoClick · Create task · Like · 21 Jul 2016  /(miocation instanceof VacationRental    mLocation instanceof Airline) &amp;&amp; mConfig != null &amp;&amp;  mConfig.isPeatureRhabled(ConfigPeature.PHOTO_CLICK_LOGIN_REQUIRED.getName())) {  scatePhotoClick = false;  activity.getWebBervletName().getLoobbackServletName(),  TrackingAction.LOGIM_PHOTO_COMTENT; LoginHelper.loginMithTag.thanAdtStiputton(activity,  activity.getString(R.string.photo_gate_sign_in_unlock_photo), true,  new AccountManagerCallbackStundle&gt;() {</pre>		
	ap	079 080 081 082 083 084 085 - - - - - - - - - - - - - - - - - - -	<pre>WobleLibrary / src / main / java / com / tripadvisor / android / lib / tamobile / activities / LocationDetailActivity.java  final int photoBeight = (mainPhotoSize / 2) - paddingHeight; final View photoFrameSmallTop = findViewById(R.id.photoFrameSmallTop); setLayoutParamForView(photoFrameSmallTop, photoWidth, photoHeight); // } //show login page before redirecting user to gallery private void startPhotoViewer() { final TArragmentActivity activity = getActivity(); if (activity != null &amp;&amp; !LoginHelper.isLoggedIn(activity) &amp;&amp; sGatePhotoClick &amp;&amp; ShafaatDoost e &amp; GGatePhotoClick Chysanthi Chaleva ah thanks mani, missed that Reply - Edit - Delet - Create task - 21 Jul 2016  /(micration instanceof VacationRental    mLocation instanceof Airline) &amp;&amp; mConfig != null &amp;&amp; mConfig.isFeatureEnabled(ConfigFeature.PHOTo_CLICK_LOGIN_REQUIRED.getName())) { scatePhotoClick - false; activity.getTrackingAPIHelper().trackEvent(</pre>		
	ap     ap     ap     constant     ap     ap     constant     cons	D79 900 900 900 900 900 900 900 900 900 9	<pre>WebleLUbray/src/main/java/com/tripadvisor/android/lb/tamobile/activities/LocationDetailActivity.java final int photoBeight = (mainPhotoSize / 2) = paddingHeight; final view photoFrameSmallTop = findViewSyld(R.id.photoFrameSmallTop); styleTamobile view(photoFrameSmallTop, photoWidth, photoBeight); // } //show login page before redirecting user to gallery private void startPhotoView(photoFrameSmallTop, photoWidth, photoBeight); if (activity := null &amp; LoginHelper.isLoggedIn(activity) &amp; sestePhotoClick &amp; se StatePhotoClick 'Create task · Like · 21 Jul 2016 Chrysenthi Chaleva aht thanks mani, missed that Repy · Edit · Dedee · Create task · 21 Jul 2016 (Indocation instanceof VacationRental    mLocation instanceof Airline) &amp; se mConfig != null &amp;s     sofiePhotoClick = faise;     activity.getTrackingAPIHelper().trackEvent(         activity.getExtremenabled(ConfigFeature.PHOTo_CLICK_LOGIM_REQUIRED.getMam())) {         activity.getTrackingAPIHelper().trackEvent(         activity.getExtremenabled(ConfigFeature.PHOTo_CLICK_LOGIM_REQUIRED.getMam())) {         activity.getExtremenabled(ConfigFeature.PHOTo_CLICK_LOGIM_REQUIRED.getMam())) {         activity.getExtremenabled(ConfigFeature.PHOTo_CLICK_LOGIM_REQUIRED.getMam())) {         activity.getExtremenabled(ConfigFeature.PHOTo_CLICK_LOGIM_REQUIRED.getMam())) {         activity.getExtremenabled(ConfigFeature.Photo) {         activity.getExtremenabled(C</pre>		
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# 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

 $\star \star \star \star \star$ 

 $\star \star \star \star \star$ 

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

### $\star \star \star \star \star$

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



# 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 you 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

#### **(** ANDROID ASSET STUDIO

#### Launcher Icon Generator









### 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	3		⊖ Watch	23	★ Star	398	¥ Fork	124
Code () Issues 0	1 Pull requests 1 Projects 0 + Pulse	II Grap	phs					
collection of example	fastlane setups https://fastlane.tools							
139 commits	₽ 1 branch	© 0 relea	ases		22	17 contr	ibutors	
Franch: master - New pu	ill request				Find file	Clor	ne or downl	oad •
KrauseFx committed wi	th mfurtak Remove not about submitting Fastfile (#36) 💻				Latest co	mmit ez:	1674 3 day	s ago
Acast	Merge branch 'master' of github.com:fastlane/example	es					10 months	s ago
Artsy/eidolon	Added logos						2 years	s ago
BeMyEyes	Updated BeMyEyes Fastfile						6 months	s ago
Fabric	Add Fabric app fastlane files						8 months	s ago
Fitbay	Removed autogenerated documentation header						a yea	r ago
Logos	Add SoundCloud to Fastlane examples						7 months	s ago
MindNode	Add simulator that iTunesConnect requires						3 months	a ago
MyDayToDo	added the framed screenshots to show what they look	like once fr	ramed				a month	1 ago
ProductHunt	Updated Product Hunt config to use pilot						6 months	s ago
SoundCloud	Add SoundCloud to Fastlane examples						7 months	s ago
SunApps	(Typo fix)dymanic -> dynamic						10 months	3 ago
Timehop	Simplified Timehop Fastfile						8 months	s ago
Touchwonders	Update links to fastlane docs (#30)						3 months	s ago
Wikipedia	Fix getting version number						9 days	s ago
.gitignore	Adds Acast						10 months	s ago
README.md	Remove not about submitting Fastfile (#36)						3 days	s ago

E README.md

Acast

Fitbay

· Deploy updates through Crashlytics Beta



fastlane Example Setups This repository contains a few fastlane example setups that help you getting started. 9  $\lambda^{j}$  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 Cl · Managed provisioning profiles using match Creation of screenshots using snapshot
 o 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 • Snapfile • Framefile Timehop  $m A^{j}$  Traveling in time using fastlane · Automatic generation of the changelog Advanced manual key management · Printing out random squirrels and boats Table flips Overview • Fastfile fithay 👕 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 Ş 👕 Standard Setup



Overview • Fastfile • Deliverfile • Snapfile • Appfile • snapshot.js

· Submit to the AppStore with screenshots and metadata Code generation for xib names, identifiers, etc using R.swift Overview • Fastfile • Snapfile • Appfile

# Controlling the release

### Alpha/Beta channels

atistics	АРК		Switch to simp	le mode		
er Acquisition nance ttings & Reviews	PRODUCTION Versions 763, 820	BETA TESTING Versions 822	ALPHA TESTING Set up Alpha testing for your app			
ashes & ANRs otimisation Tips oud Test Lab	BETA CONFIGURATION MANAGE TESTERS					
CM Diagnostics PK pore Listing entent Rating icing & Distribution	<ul> <li>OPEN BETA TESTING Switch 1</li> <li>Maximum number of testers If you set a maximum number of t the number needs to be at least 1</li> </ul>	to another type of beta testing esters, 000.		•	5 10 5 2 rited Accepted Installed Launche	20 JsonClient.java line 136 demo.app.network.JsonClient.getF DownloadAppTask.java line 45 demo.app.tasks.DownloadAppTask ApkDownloadClient.java line 59 demo.app.etwork.ApkDownloadCl
app Products	Easthack abarral		Andrea Falcone tester@crashlytics.com	•	•	AirService.java line 443 demo.app.core.Service.checkForU Tester Activity
		0	Marshall Moutenot tester@crashlytics.com	-	•	Sam Phillips tester@crashlytics.c Joan Smith tester@crashlytics.c
		ۍ عر	tester@crashlytics.com  Sam Phillips tester@crashlytics.com		•	Sam Robbins tester@crashlytics.c
						Developer Activity

### 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



### 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);
}
```

JUnit





# Run on every pull request

#### 🔵 ↓2 ↓5 호 🗧 🕈 🔸 🚺 🕰 🍀 estAttachView\_ValidPromoFeatureOn\_BannerGetsShown 17s 634ms w testAttachView\_ValidPromoFeatureOff\_BannerGetsHidden 94ms estAttachView\_NullPromoFeatureOn\_BannerGetsHidden 48ms estAttachView EmptyPromoFeatureOn BannerGetsHidden O 41ms estSetTitle\_TitleMissingFromApiResponse\_GetsSetFromLocation 46ms -7 estSetTitle\_TitleInApiResponse\_GetsSetFromApiResponse 34ms . . . . . . . attractionProductResponseSuccessTriggersLoadMoreResult 23ms estOnLoadMoreReached\_MultipleViewsOfLoadMore\_DoesNotTriggerMultipleTrackings 38ms . . . . . . . Je P w testOnEndOfPageReached\_MultipleViewsOfEndOfPage\_DoesNotTriggerMultipleTrackings 43ms estAttachView\_CurrentResultsAndTotalResults\_ProperlySentToView 38ms × estAttachView NotAllPagesLoaded ShowMoreButtonGetsShown 37ms ? estAttachView\_AllPagesLoaded\_ShowMoreButtonGetsHidden 30ms estAttachView\_LoadProductFailure\_ShowsLoadingError 44ms estAttachView\_LoadProductSuccess\_HidesLoadingView 34ms estAttachView SuccessResponse PartnerPhoneLookupProperlyLoadedFromResults 74ms estProductGetsSelected\_CorrectCustomerServiceNumberPassedOn 47ms AttractionProductReviewsHistogramViewTest 9s 706ms estThatHistogramGetsHiddenOnZeroCount 9s 706ms AttractionProductTourGradesPresenterTest 700ms testLoadData\_WithInvalidArguments\_ShowsError 131ms Charles Nullbergers Ch



### **Native Jenkins**

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

Reply · Create task · Like · 21 mins ago

# UI & Integration tests

()) ello World!")));





Hello World!

Android Emulator - Nexus\_5X\_API\_21:5554

46 🗗 🗗 9:46

onView.withId(R.id.my\_text\_view))
.check(matches(withText("Hello World!")));

# Run every 6 hours





















### alternatively...



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

# Spoon

### Distributing instrumentation tests to all your Androids

C http://square.git	ub.com/spoon/sample/	=
Spoor 45 tests run across	Sample App 5 devices with 30 passing and 15 failing in 2 minutes, 33 s	seconds at 2013-01-17 06:04 PM
ROID BIONIC		
HTC One V		
Nexus 4	LoginActivityTest	
	Password Too Short, Shows	
Nexus 7	Error	
	A A	
Nexus S	0	

### 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'.

← Checkout	← Checkout	← Checkout	← Checkout
An error has occurred, please try again later.	An error has occurred, please try again later.	An error has occurred, please try again later.	An error has occurred, please try again later.

5

#### 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

\* = …

9	fastlane · Nov-8 4:50 AM SearchAndNav Build successful on mainline android-tests-nav-mainline #724	2	Members	×
0	fastlane · Nov-8 5:03 AM         SEM Build successful on mainline         android-tests-sem-mainline #271	i		
0	fastlane · Nov-8 5:47 AM         Restaurants Build successful on mainline         android-tests-restaurants-mainline #725	ł		
0	fastlane · Nov-8 6:23 AM MG Build successful on mainline android-tests-mg-mainline #420	ŝ		
0	fastlane · Nov-8 7:30 AM Community Build successful on mainline android-tests-community-mainline #579	ł		
0	fastlane · Nov-8 7:33 AM         Engagement Build successful on mainline         android-tests-engagement-mainline #727			
0	fastlane · Nov-8 7:48 AM         Attractions Build successful on mainline         android-tests-attractions-mainline #908	l		
0	fastlane · Nov-8 8:16 AM         IBEX Build failed on mainline         android-tests-ibex-mainline #723			
	fastlane · Nov-8 8:24 AM			
Û				

Туре	Priority	Estimate	References	
Other	High	None	None	TestRail
iOS Automated Test	Android Automated Test			100ti tuli
TripAdvisorEndToEndTests.TADownlo adOfflineCityTests.testOfflineFullPac kageDownload	com.tripadvisor.tripadvisor.test.Dow nloadOfflineTest			

Steps

	Step	Expected Result			
1	Go to the geo page for Tokyo, Japan.	Page successfully displays.			
2	Tap the Download 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.			
Resi	History & Context ? Defects ?				
Passe 3/15/2	d This test was marked as 'Passed'. 2016 12:56 PM Ollie the O.				

### Manual

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

# Rage shake

T 👼 😇	🛈 💎 🖌 📮 6:35				
← Settings	DONE				
Enable proximity circle	🔵 On   Off				
Use HTTPS for API?					
Skobbler Online Map	🔵 On ( Off				
Force Update	🔵 On ( Off				
One Minutes alarm	🔵 On 💿 Off				
Shake to file bug	💿 On 🔵 Off				
Show tracking info on long press	🔵 On ( Off				
Log SQL SELECT queries	🔵 On ( Off				
Social Features	🖲 On 🔵 Off				
Use stub api for social	🔵 On ( Off				



Draw on the screenshot where the bug occurred, then press Next. (Optional)



### 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."



# MONITORING

### "If it's worth doing, it's worth measuring"

#### DASHBOARD

7 days 30 days 1 year Lifetime



#### INSTALLS BY USER 💿

View details



### Crashes



<b>Fatal</b> Binar	<b>Exception: android.view.InflateException</b> y 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

Scenario	lssues		Measurements					
🖞 Search Bar	O Slowdowns	Mem Leaks	() Time	Memor	y 🤶	Network	<b>D</b> i	sk I/O
🖞 DualSearchActivity	-	-	Real Time	Max Use	Dov	wn Up	Read	Write
Image: Section 1     Image: Section 2       Image: Section 2     Image: Section 2			-	-	-	-	-	-
Scenario	lssues		Measurements			~		
🖞 Search	❷ Slowdowns	Mem Leaks	O Time	Memory	🛜 Ne	twork	🛢 Dis	k 1/0
🖞 HomeActivity	4	0	Real Time	Max Use	Down	Up	Read	Write
			0.9s	40.1мв	2кв	5кв	29кв	672кв



#### CPU Time by Dependency 📀



■ 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

# Daily active users



# OS adoption rate

**INSTALLS ON ACTIVE DEVICES ON NOV 5, 2016** 



# 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





### Localytics



