# **GSK**fm

How to ensure application quality on mobile devices?

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**TAPOST 2016** 



#### WHO WE ARE



- One of the TOP10 social networks worldwide\*
- Web (desktop & mobile)
- iOS and Android applications
- Latvia-based development

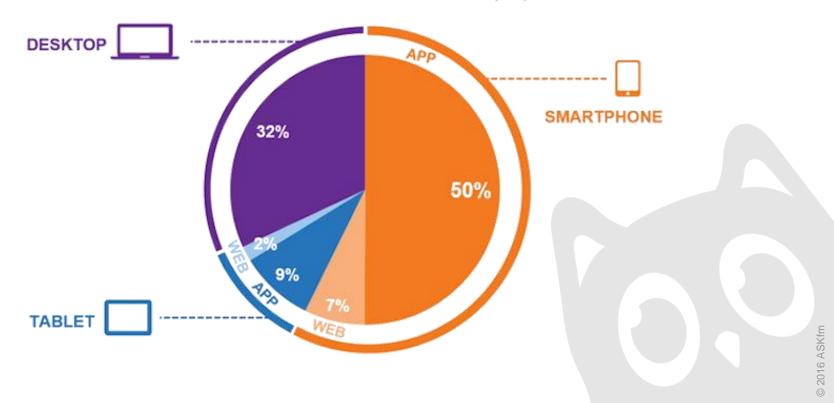


#### WHY MOBILE APPS



#### Share of Total Digital Time Spent: July 2016

Source: comScore Media Metrix Multi-Platform & Mobile Metrix, U.S., Total Audience



#### WHAT IS THE PROBLEM



# Same quality with different devices



#### **HOW WE TEST**

Automated and manual tests, that cover all functionality on all platforms



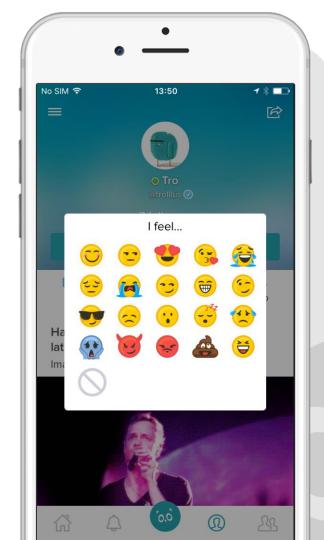
```
SettingsAccountTab.viewBlockedLis
    assert BlacklistPage.usersAreInBl
When (\sim/^(.*) toggles (.*) notificatio
    WebPage.switchTo(userAlias)
    InternalWebPage.openSettings()
    SettingsPage.openNotificationsTab
    SettingsNotificationTab.toggleNot
    SettingsNotificationTab.saveSetti
Then (\sim/^(.*) should have notification
 WebPage.switchTo(userAlias)
    InternalWebPage.openSettings()
    SettingsPage.openNotificationsTab
    def notificationSettingIsOn = Set
    assert notificationSettingIsOn.eg
When (\sim/^(.*) toggles (.*) options \%
    WebPage.switchTo(userAlias)
    InternalWebPage.openSettings()
    SettingsPage.toggleProfileOptions
    SettingsPage.saveSettings()
Then(~/^(.*) status on Profile is (.*
    WebPage.switchTo(userAlias)
```

def userWebStatus = ProfilePage.w
assert UserWebStatus.valueOf(stat

SettingsPage.openAccountTab()

#### **iOS** APPLICATION

- Limited amout of devices –
   13 options (iPhones and iPods)
- Two major iOS versions –
   9.x and 10.x
- Mostly, bugs don't depend on device

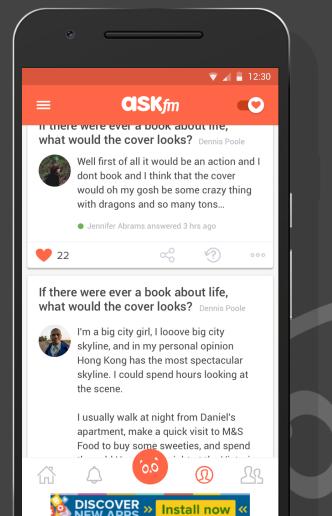






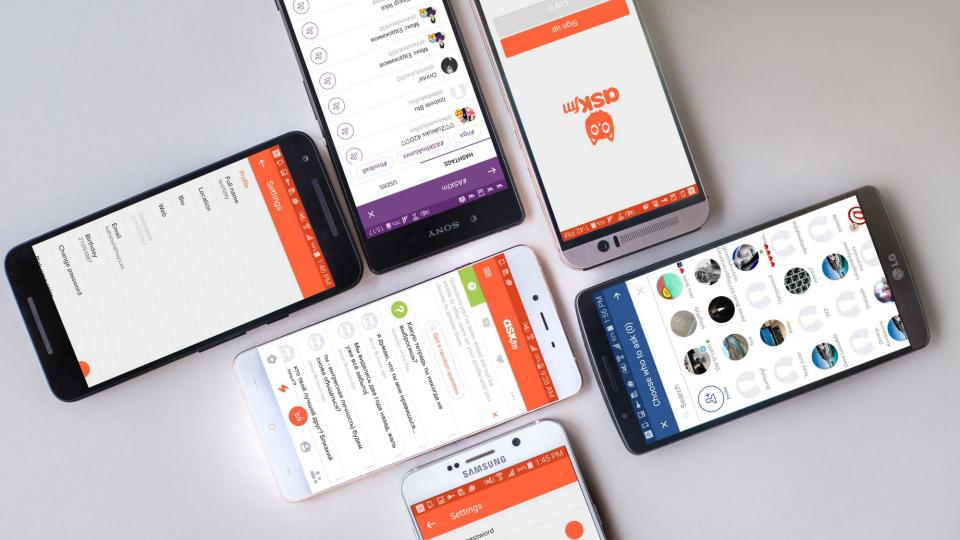
# **ANDROID** APPLICATION

#### Situation differs









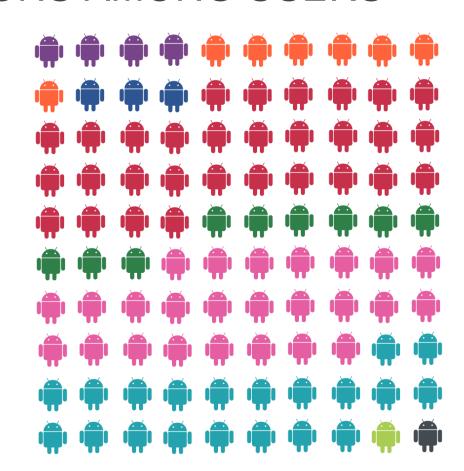


#### **ANDROID VERSIONS AMONG USERS**



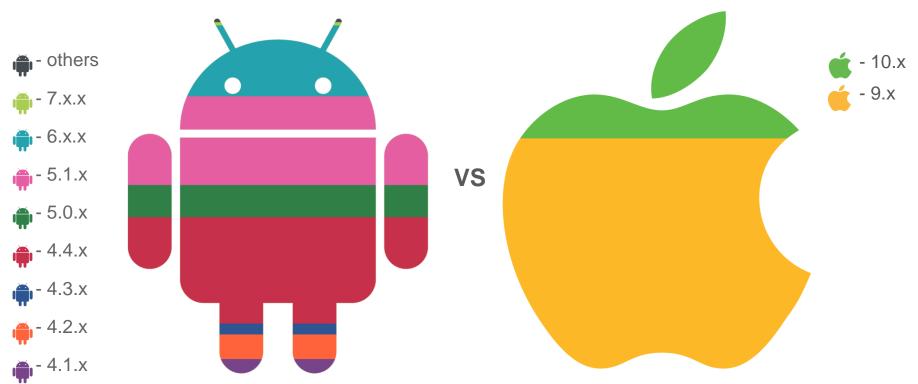
More then 8 actively used versions.

- other versions
- → 7.x.x
- 6.x.x
- → 5.1.x
- 5.0.x
- 4.4.x
- 4.3.x
- - 4.2.x
- 🗭 4.1.x



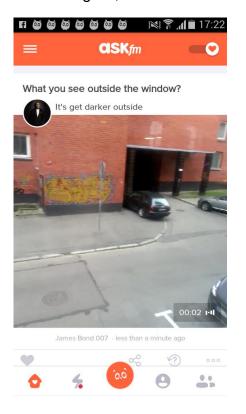
# **ANDROID vs iOS VERSIONS**



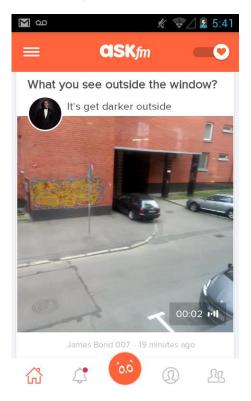


## **BUGS ARE UNEXPECTED**

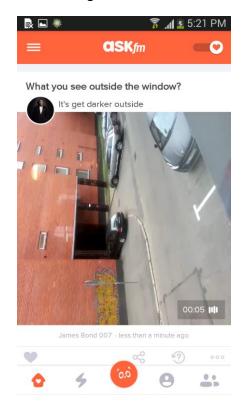
Samsung S4, Android 4.4.1



Nexus S, Android 4.1.2

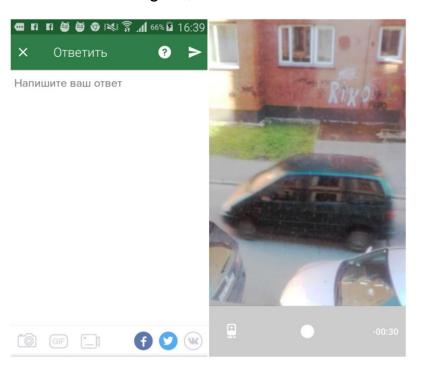


Samsung S3, Android 4.3

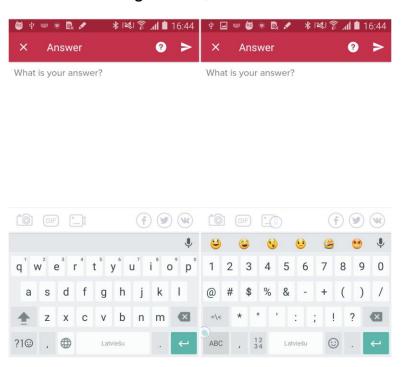


## **BUGS ARE UNEXPECTED**

#### Samsung S5, Android 5.0.0



#### Samsung Note 3, Android 5.0.0

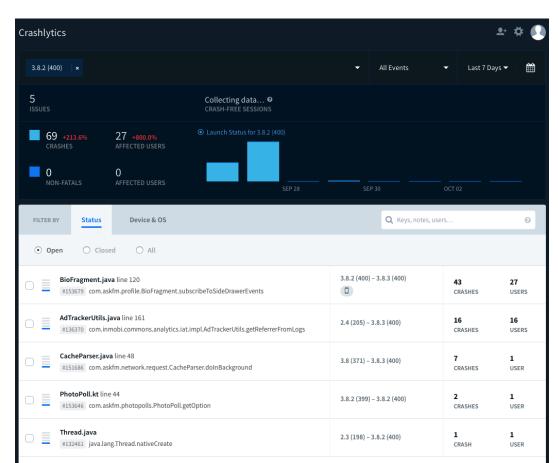


# Let users test Your software



## **NEW VERSION RELEASE**

- 5%, 20%, 100%
- Random users and devices
- Follow up crashes



### **FOLLOW USERS COMMENTS**

 User comments in Google play or AppStore \*\*\*\*

#### Cannot enter

Whenever i open the app,it just freezes and does not load.Please fix this.Thank you

by 14.09.2016 EN via the Google Play

User mails to Support



#### Keeps refusing to open

It just shows up with a white screen whenever I press the app

y 13.09.2016 EN via the Google Play



#### Its not opening up

When I tap on the app it opens and the screen stays white. It'd be great if you guys could fix that

Dy

13.09.2016 EN via the Google Play

# CONCLUSION



FRAGMENTATION

Situation differs for iOS and Android / Devices count / OS versions

RELEASE GRADUALLY

5%, 20%, 100%

COMMENTS

Follow user comments in Google Play or AppStore / Emails to Support

Questions?

Comments?

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