



# BUILDING GREAT APPS WITH REAL-WORLD TESTING AND AUTOMATION

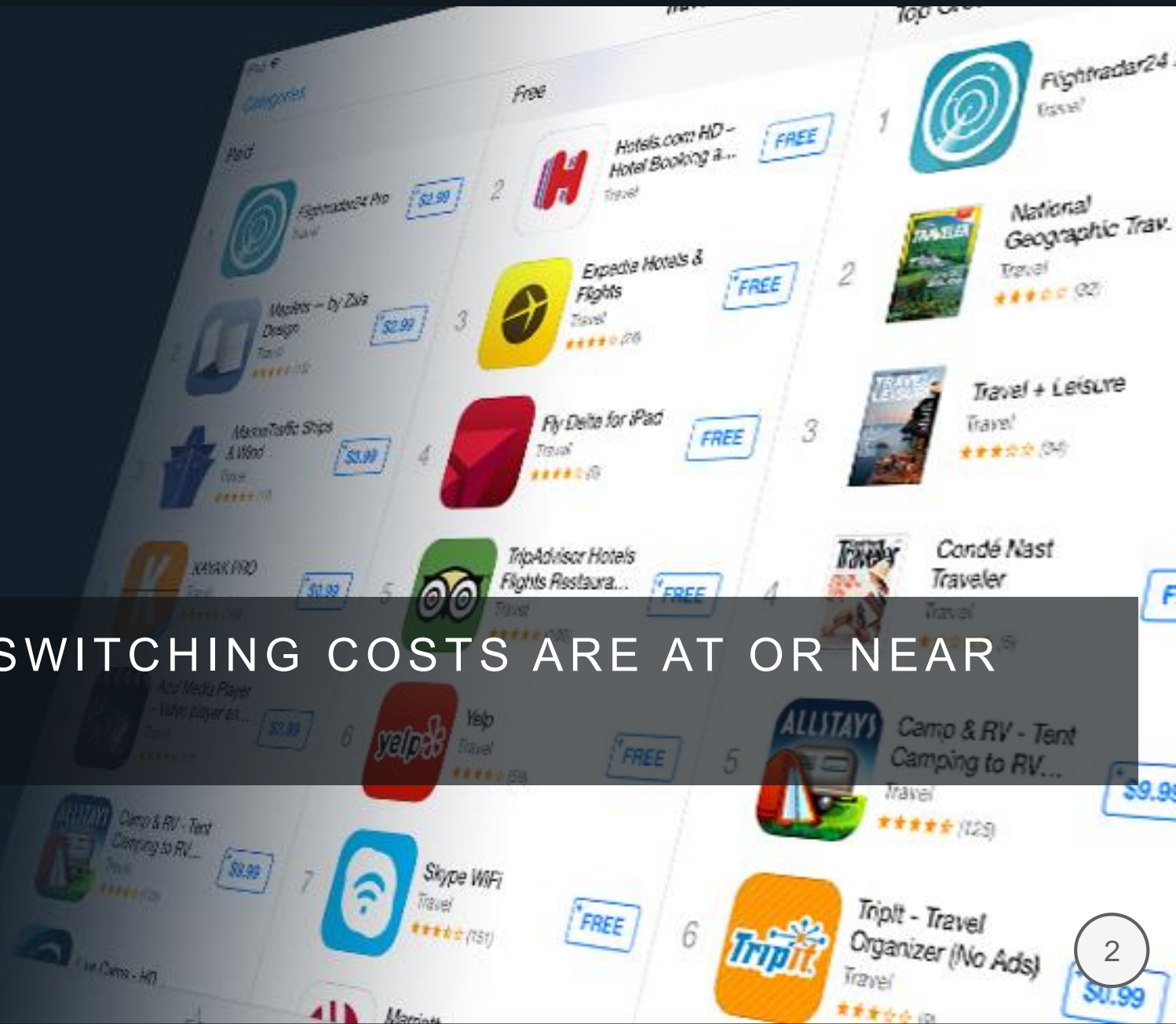
INCREASING APP QUALITY WITHOUT SACRIFICING  
VELOCITY

Steve Moses | Senior App Quality Evangelist

USERS DICTATE SUCCESS



AND...SWITCHING COSTS ARE AT OR NEAR ZERO

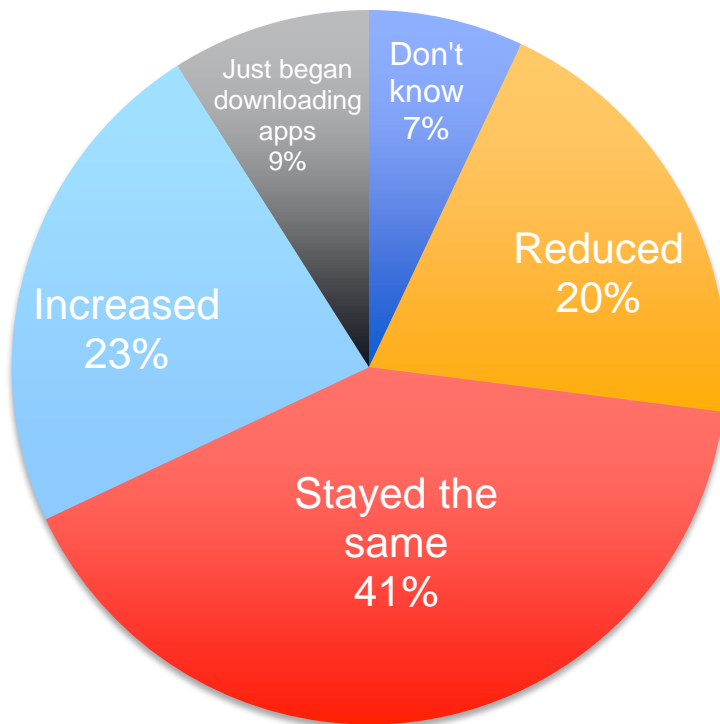


APPS HAVE TO DO MORE THAN WORK

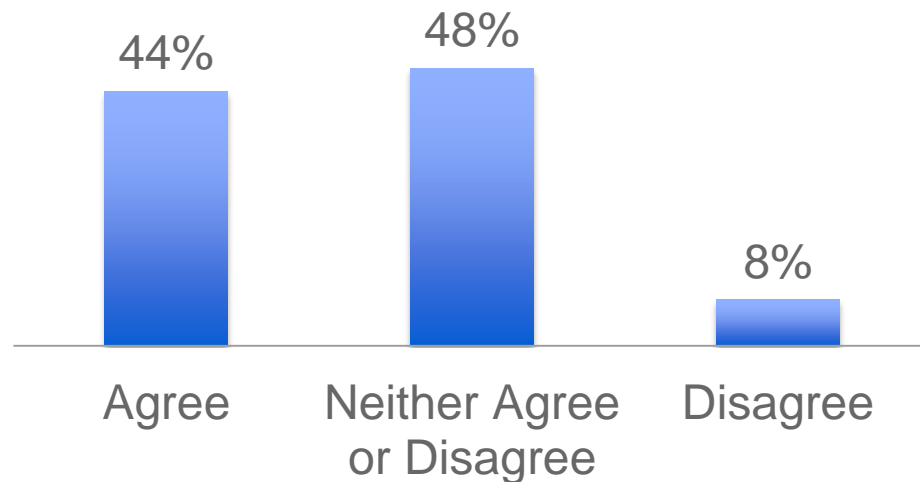
A photograph of two young women with long hair taking a selfie outdoors in a snowy environment. The woman on the left is wearing sunglasses and a dark coat, while the woman on the right is wearing a red coat. They are both smiling and looking at a smartphone held by the woman on the left. A semi-transparent dark grey banner is overlaid across the middle of the image, containing the text 'THEY HAVE TO DELIGHT USERS' in white capital letters.

THEY HAVE TO DELIGHT USERS

## User App Download Habits Compared to a Year Ago (US)



## “I enjoy finding and trying new apps” (US)





6/24/2015 Francesca Balogh -

[This sucks](#) This doesn't work. At all. I followed the instructions on the tutorial. Does not work. I have a Samsung Galaxy s5.

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6/22/2015 Chaz Ward -

Sucks doesn't even pretend to work

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6/22/2015 Sally P -

Did not work.

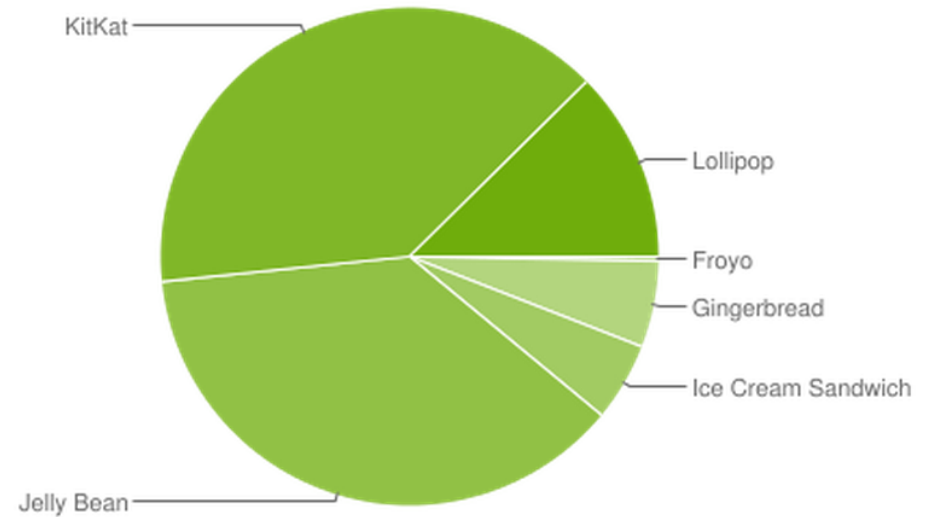
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6/21/2015 Jeff Harvey -

[Can't calibrate or scroll](#) Can't give any less than one star or I would

Version	Codename	API	Distribution
2.2	Froyo	8	0.3%
2.3.3 - 2.3.7	Gingerbread	10	5.6%
4.0.3 - 4.0.4	Ice Cream Sandwich	15	5.1%
4.1.x	Jelly Bean	16	14.7%
4.2.x		17	17.5%
4.3		18	5.2%
4.4	KitKat	19	39.2%
5.0	Lollipop	21	11.6%
5.1		22	0.8%



*Data collected during a 7-day period ending on June 1, 2015.*

*Any versions with less than 0.1% distribution are not shown.*



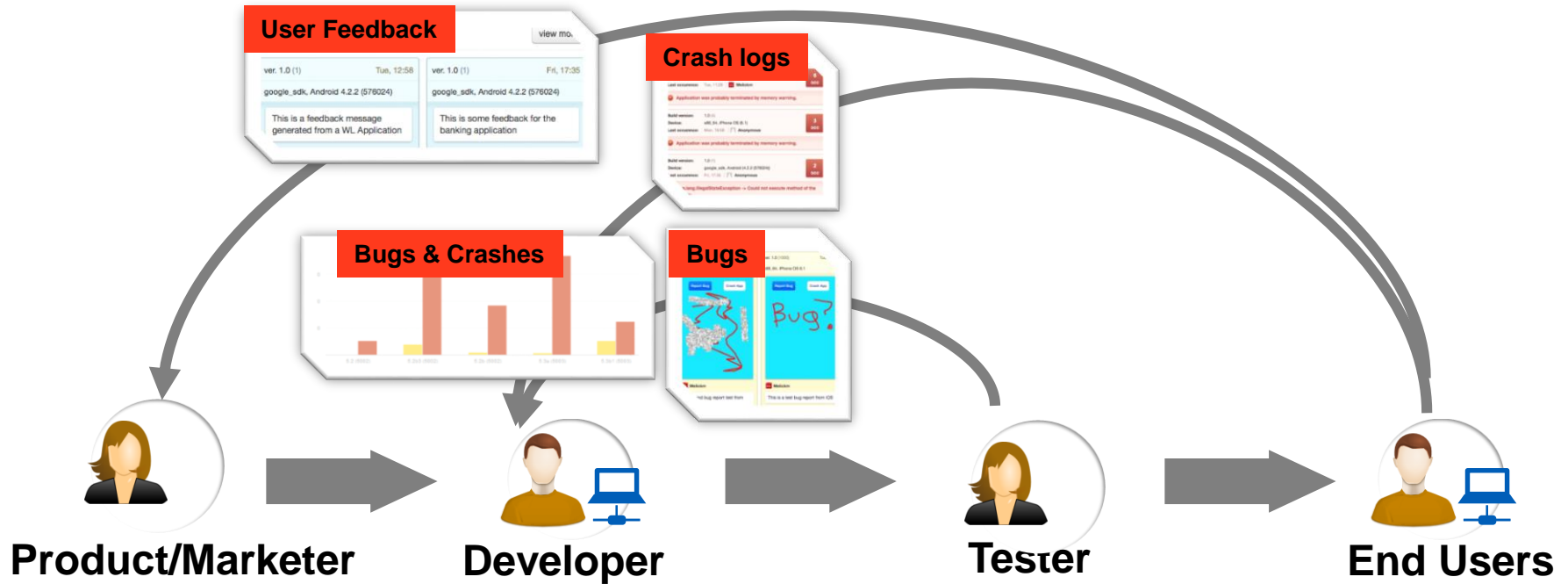
25%

INCREASE APP QUALITY



WITHOUT SACRIFICING VELOCITY





## TOOLS OF THE APP DEVELOPER TRADE

Tools let you do more with less, use them or be left behind



All of the 10 most popular third party tools categories have options for a developer to get started for free.

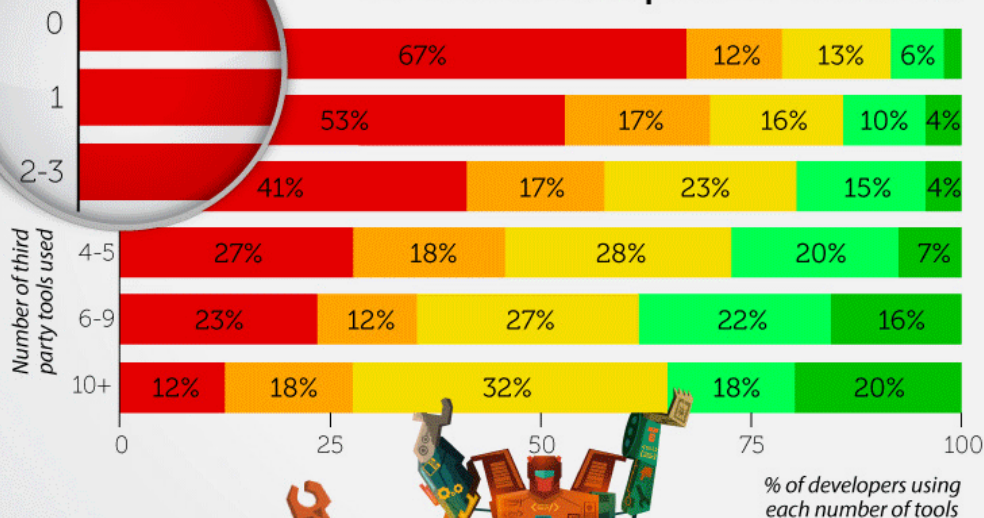
Despite this fact, **26%** of developers interested in making money do not use any third party tools.

Of those developers **79%** make less than \$500 per app per month.

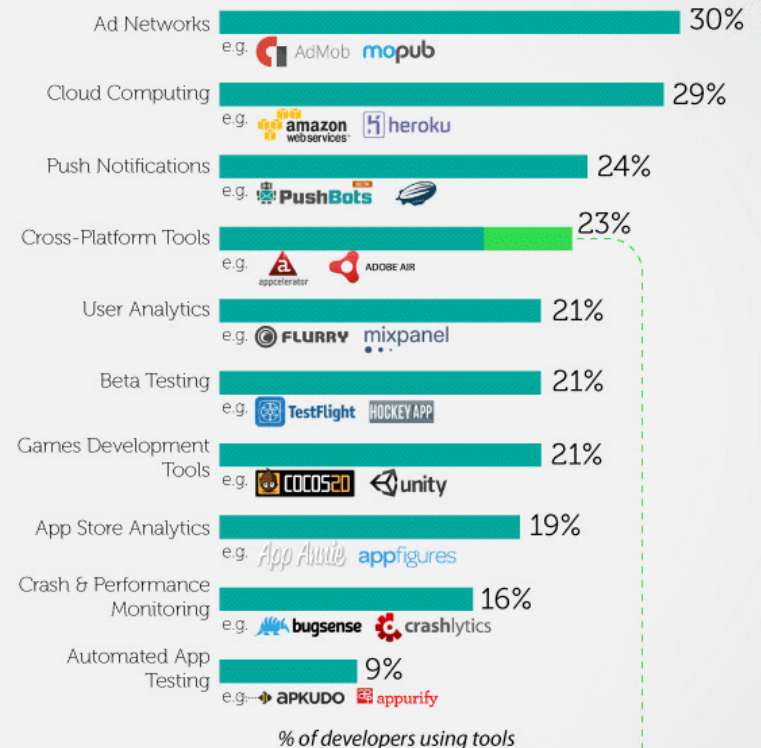
The average developer uses just **2** tools.



### Successful developers use more tools



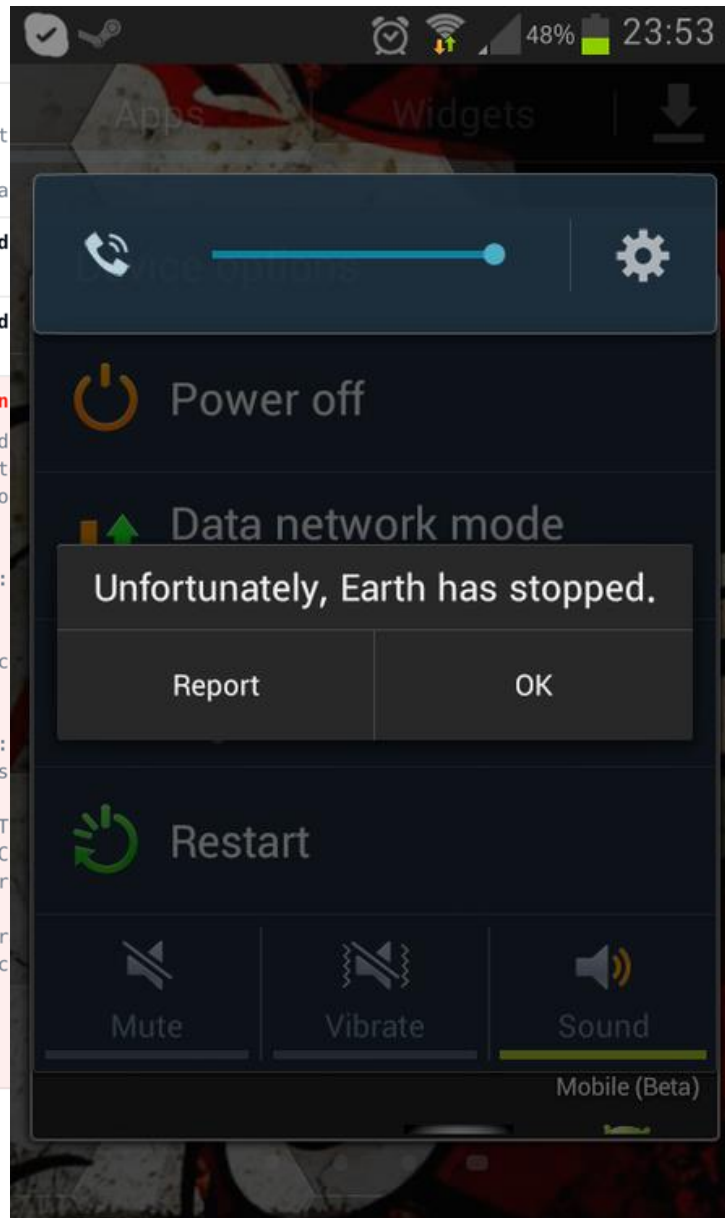
## 10 Most Popular Third Party Tool Categories



### Wrong tool for the job?

**26%** of Cross-Platform Tool users only target **1** platform. By doing so they get all the disadvantages without the main benefit. They are amongst the lowest revenue earners of all tool users.

CONDITION	1.639s	power: bat
INFO	1.73s	Unsupported
INFO	1.733s	Unsupported
CRASH	7.412s	<b>Application</b> Incident Id: CrashReport: Hardware Mo: Process: Path: Identifier: Version: Code Type: Parent Proc:  Date/Time: OS Version: Report Vers:  Exception T: Exception C: Crashed Thr:  Thread 0 Cr: 0 libobjc 1 CoreUI 2 CoreUI 3 UIKit 4 UIKit+



34424/MyNetwork.app/MyNetwork

eNamed:scale:idiom:subtype:cachingOptions:] + 260  
 sNamed:scale:idiom:subtype:1 + 38

***maven***

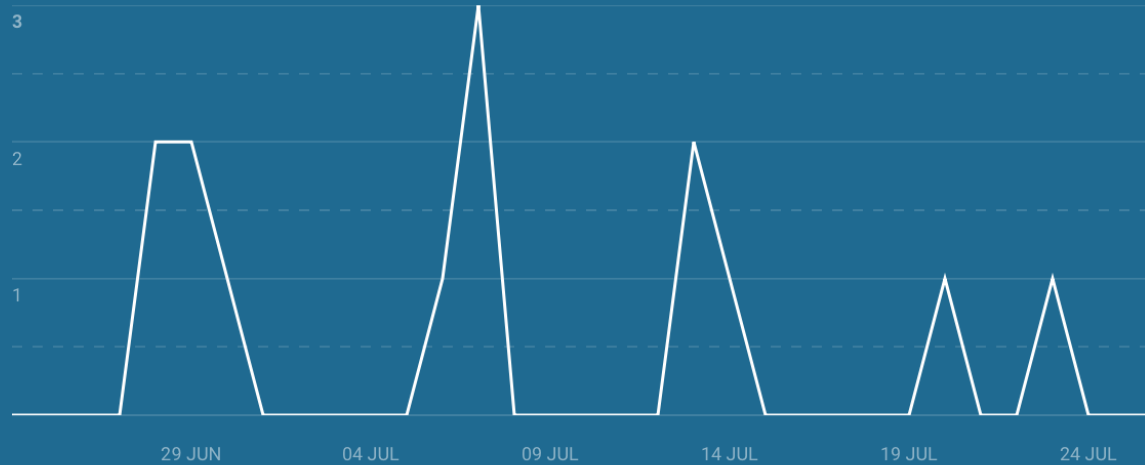


- Real people, with real devices, under real world conditions
  - Device coverage, network conditions, interoperability
  - Test cycles can be completed in days





## APP LAUNCHES



3.0

Avg. Feedback Score

6

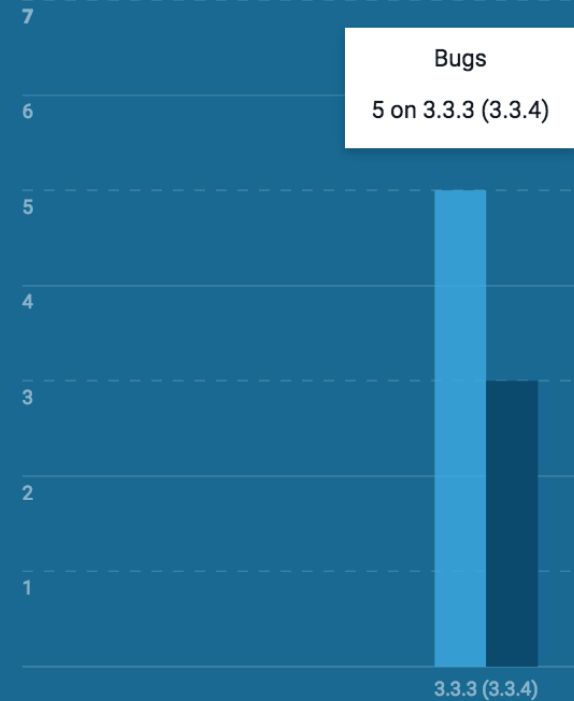
Bugs Reported

0

Crashes Occurred

## BUGS & CRASHES

HOVER ON CHART AREAS TO GET MORE INFORMATION.



## FEEDBACK

1min 0.273s

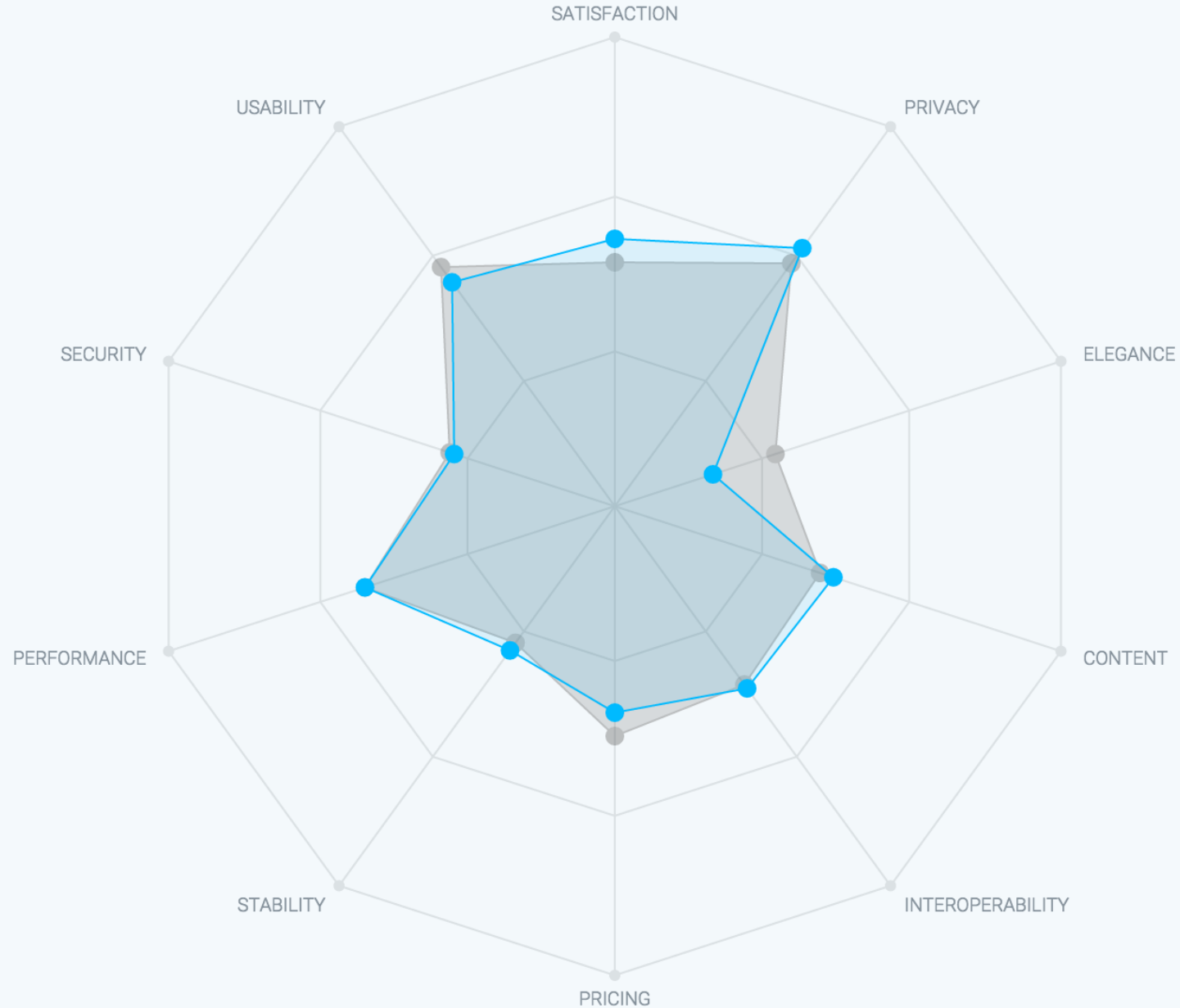
Rating: 3/5

Would prefer different colors and tutorial screen.

My Network

- Marc Frazier
- Frederick Lopez
- Suzanne Knight
- Deann Murray
- Doris Watson
- Brad Cole
- Carla George

Powered by: randomuser.me



- **Instrument app for session/crash reporting**
- **Leverage CI practices - build often and run test suites**
- **Use manual testing techniques that can fit into compressed timelines**
- **Test on real devices and real-world conditions**
- **Verify with your actual users in beta tests**
- **Review trends (problem devices, areas of the app that fail more often, etc.) and user sentiment**





USE THE TOOLBOX

# QUESTIONS?

...



**APPLAUSE**  
WINNING APPS GET IT