

Mobile Testing in an Always Connected World

Baris Sarialioglu

Professional

- Managing Partner Keytorc Software Testing Services
- Test Division Manager YapiKredi Bank (UniCredit)
- Software QA Manager **Huawei Technologies**
- Software Test Engineer **Siemens**
- Software Engineer Boeing
- Software Engineer Infineon Technologies

Education

- Executive MBA MIT Sloan School of Management
- M.S. Computer Eng. Middle East Technical University
- B.S. Electrical & Electronics Eng. Middle East Technical University

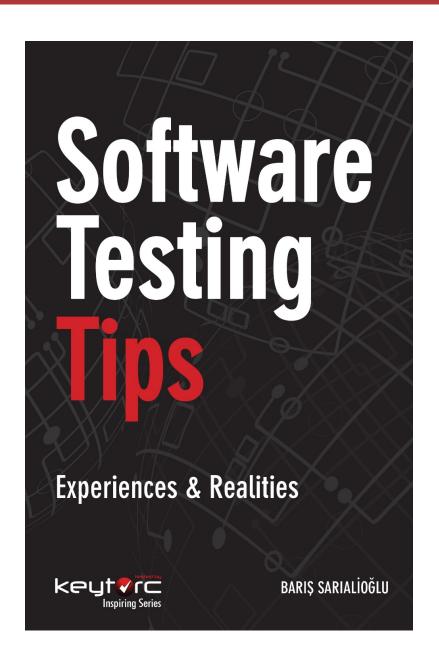
Academic

- Leader Instructor YapiKredi Banking Academy
- Guest Lecturer Sabanci University
- Guest Lecturer Bahcesehir University

Contact

- LinkedIn tr.linkedin.com/in/barissarialioglu/
- Twitter @mbsarialioglu
- Webbarissarialioglu.com

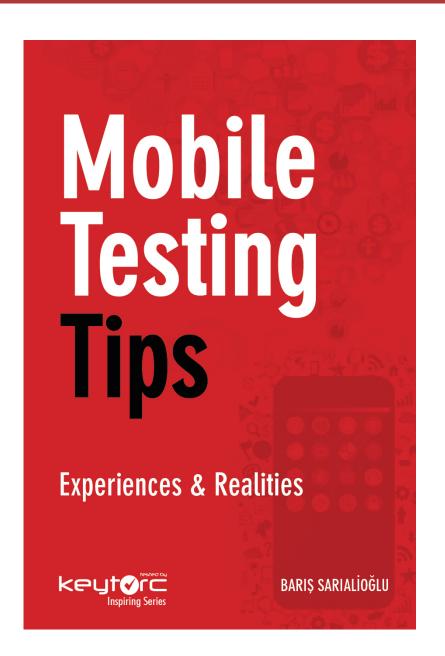






Available on Amazon; Paperback and Kindle

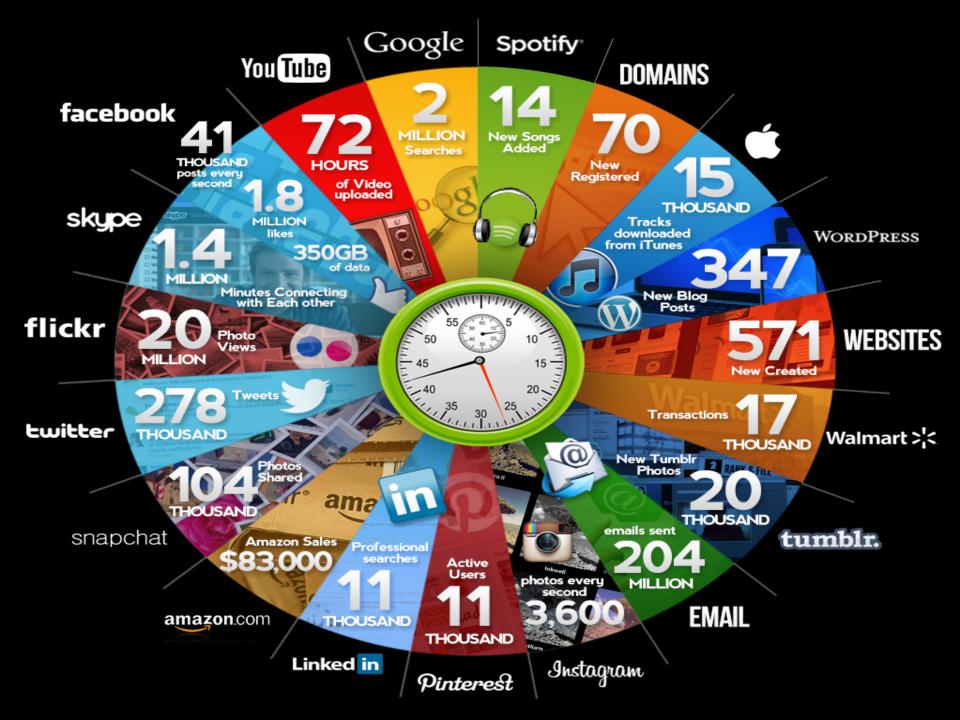






Will be on Amazon; January 2015 Paperback and Kindle

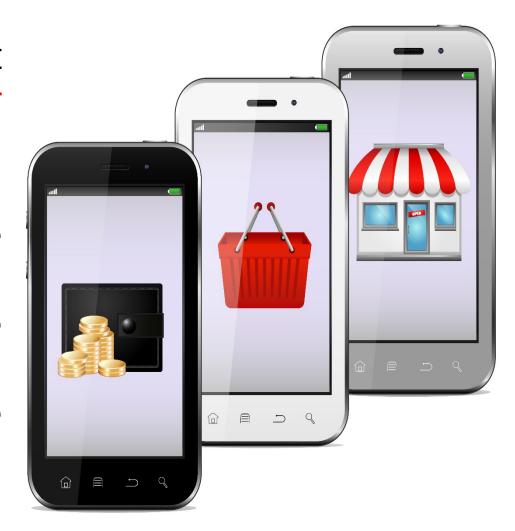
Mobile World

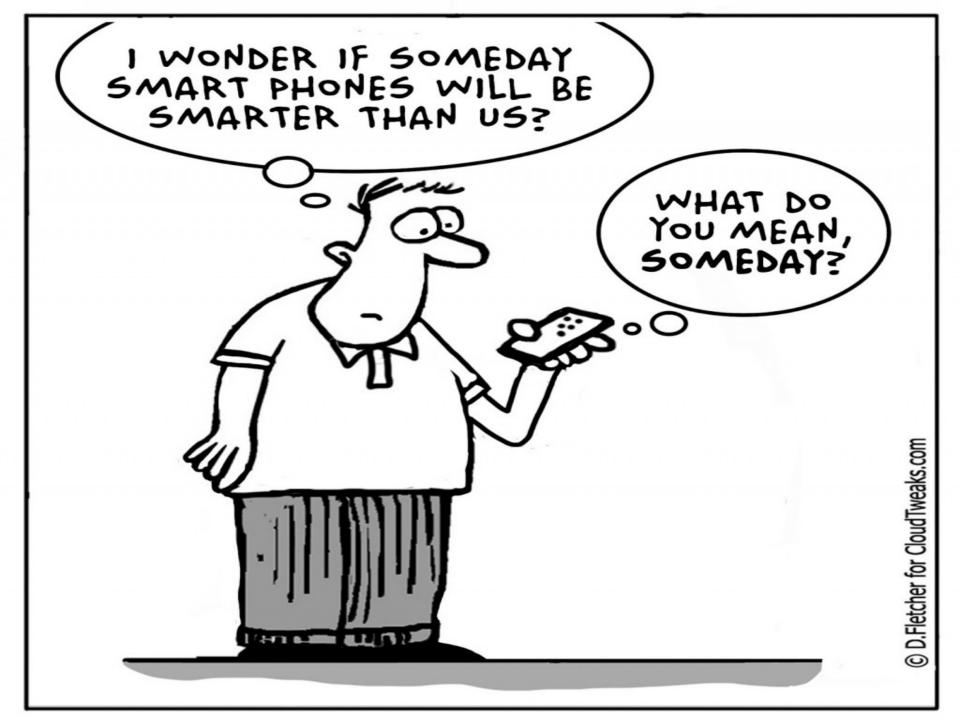


We have computers in our pockets!

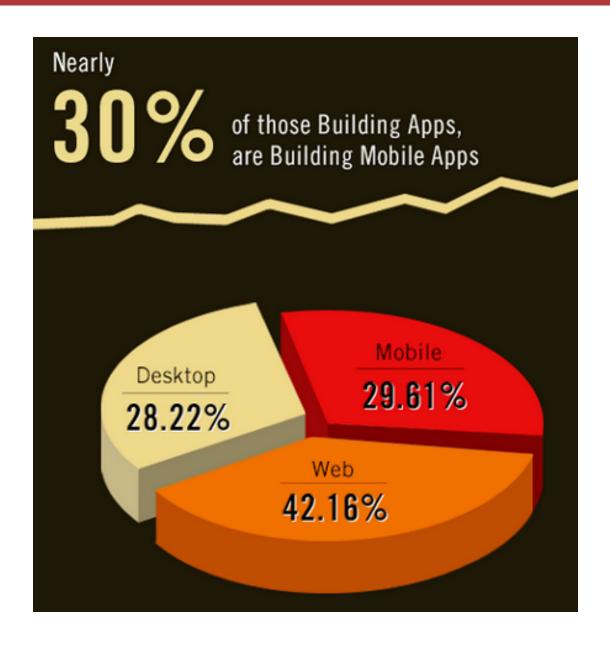
"Phone users want computers in their pockets.

The days where phones are used primarily to make phone calls and send text messages are quickly fading away"

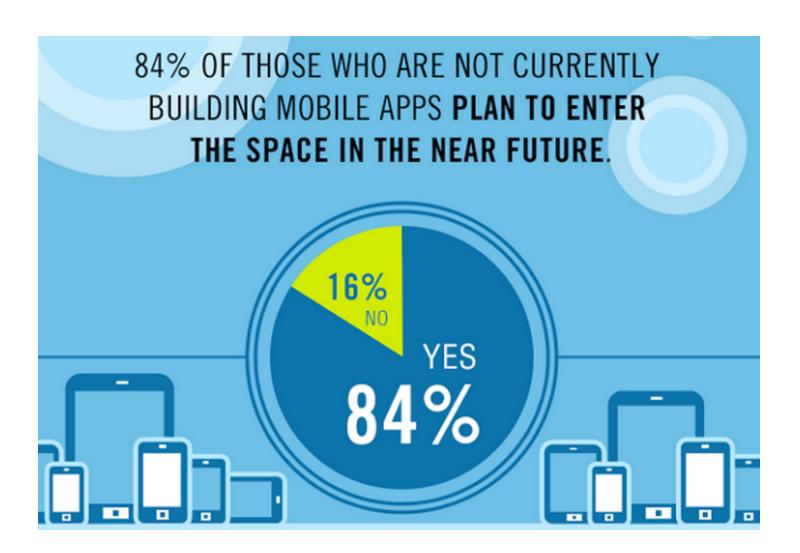




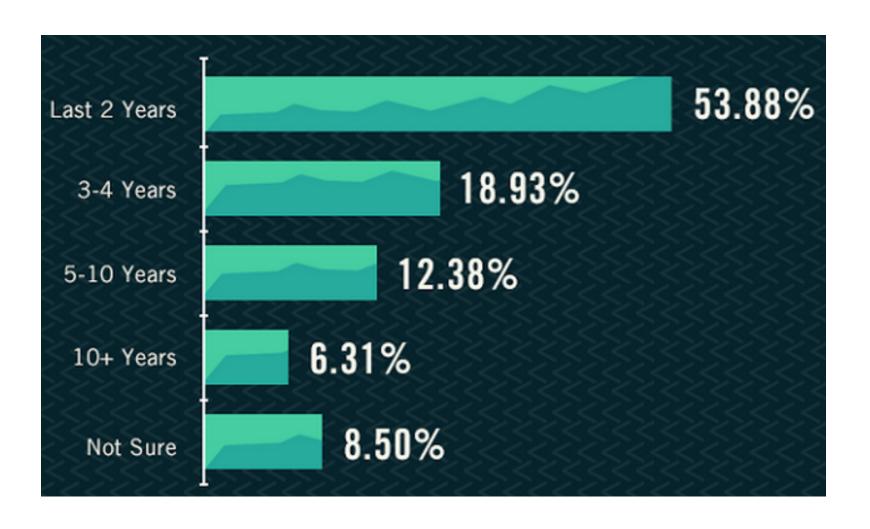
What Type of Apps?



Do you plan to enter Mobile Space?



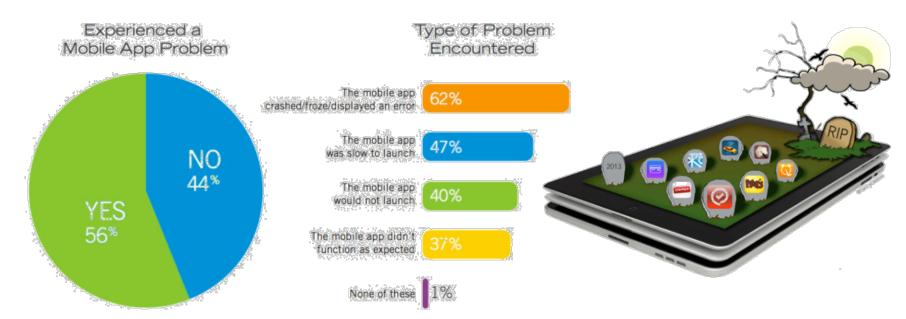
How long have you been in Mobile Space?



How many Apps fail?

- ☐ More than **50%** of users are **deleting** a Mobile App, if they encounter just a **Single BUG**!
- ☐ Nearly **50%** of apps are downloaded and used **just once**!

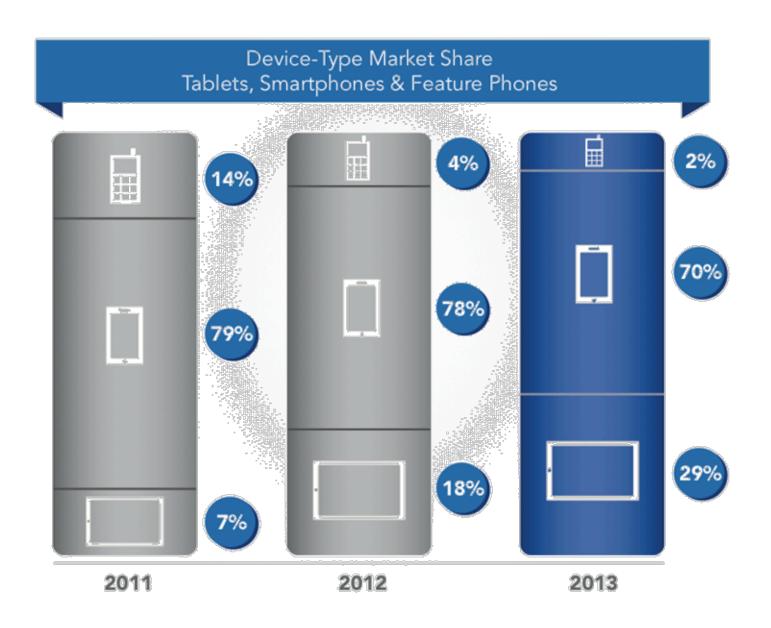
Have you had problems with a mobile app within the last 6 months? If so, what types?



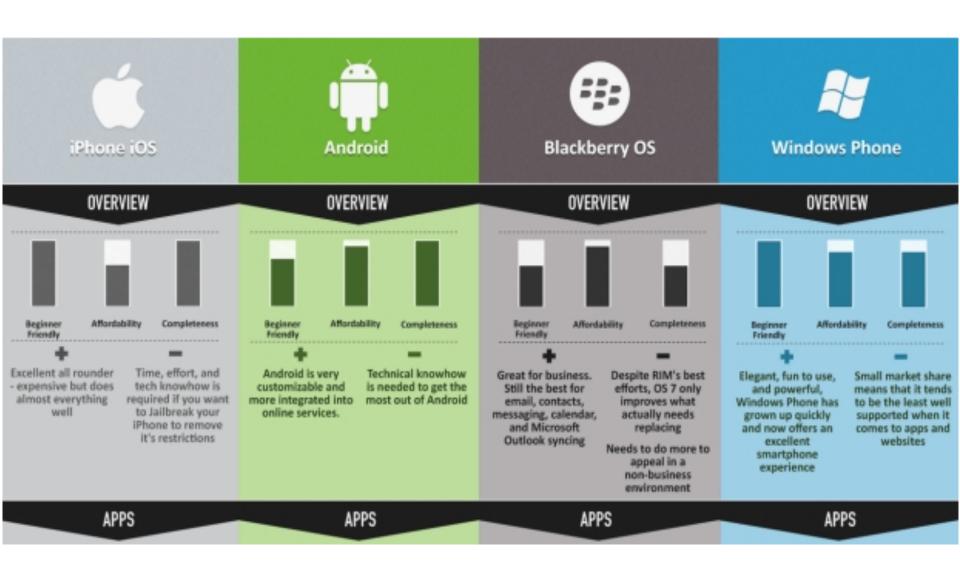
Loyalty by Mobile App Category



Mobile Devices



Mobile OS



We need Mobile Testers!

"Mobile is a fast-growing space, but there are surprisingly few people who specialize in the testing side of the equation."

Tim Carlson
Director of Mobile Product
Development & Operations

USA TODAY



Mobile Challenges



Generic Challenges

- I # of Platforms / OS
- 2 Device Variety
- 3 Displays Pixel Density
- 4 Hardware Complexity
- 5 App Complexity
- 6 Security
- 7 Carriers & Providers
- 8 Limitations over PCs
- 9 Native Apps vs. Mobile Web



Test Specific Challenges

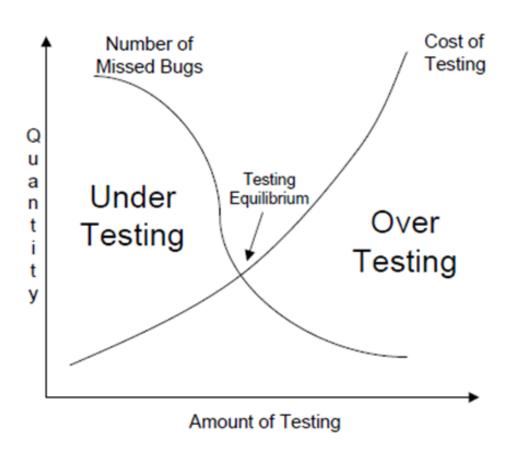
- I Dynamic SDLCs
- 2 Need for Regression Testing
- 3 Back-end Testing
- 4 Performance Testing
- 5 Do not have the Right Tools
- 6 Lack of Mobile Testing Experts
- 7 No Time to Test
- 8 Do not have Right Methodology
- 9 Do not have the Devices & Environment

Mobile Testing Tips

Mobile application testing requires not just skill, but creativity and resourcefulness. It also requires products and services specifically designed for the challenges of mobile technology.

JULIE CRAIG

Do not Test Everything!



Let testers test mobile apps

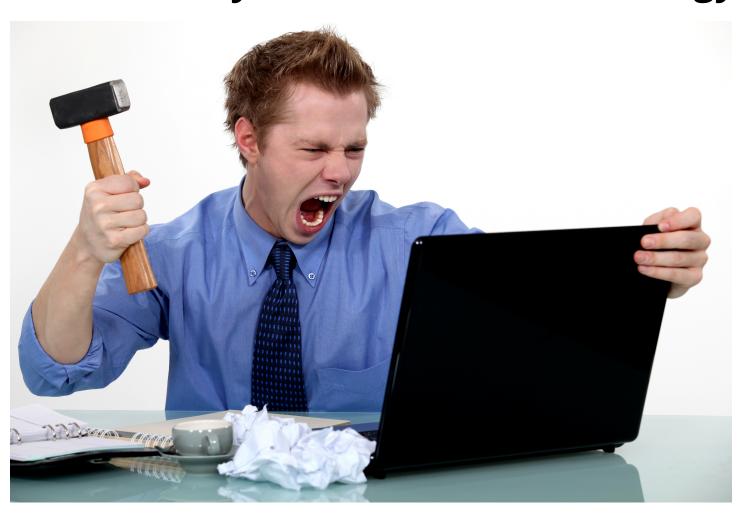


Testers are happy to find bugs, because...

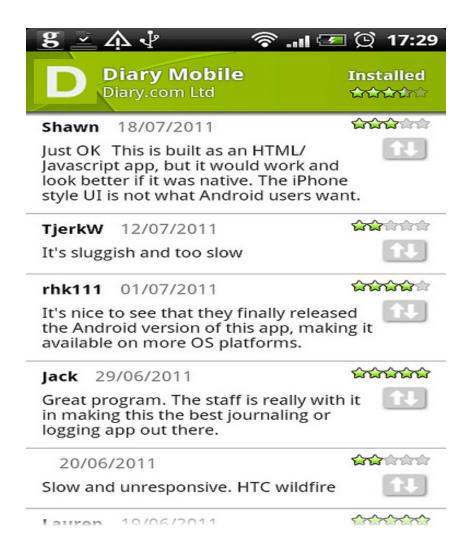


they want to feel themselves useful!!

If you cannot easily use a mobile app, don't blame yourself; blame technology...



At any phase of testing, consult your users!



Do not ever assume, always be suspicious



"Belief is a sin for testers"

James Bach

Tip 7

Be sure that bugs are not always program malfunctions;



Sometimes, they are the things which bother you.

In mobile world;

Usability testing and performance testing should and may have higher priorities than functional testing!



Don't be afraid to use emulators/ simulators.



You cannot own every mobile device

Do not automate everything!



Mobile apps should also be tested in a way that reflects **user behaviour**.

Number of defects found is an indication for more defects...



More test cases does not mean that you are better testing...



"The best test cases are the ones that find bugs."

Cem Kaner

Negative Testing can be really Positive!

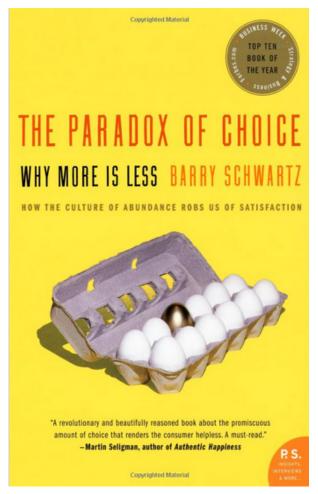


Tip 14

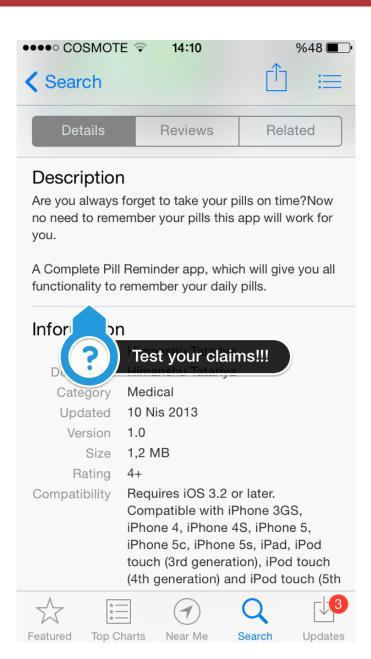
Mobile Apps should have minimum number of controls.

Mobile Testers should be defenders of the saying

"More is less!"



Tip 15



Do not forget to do Claim Testing!

Say what you do, Do what you say!

Mobile Testers are Actors!

They should act like;

- Novice users,
- Experienced users,
- Generation X,Y,Z and C,
- Developers,
- Business Analysts,
- Designers,
- Upper Managers,
- Fans,
- Hackers,
- and also Competitors



Be sure to stay away from Dark Side!



Once you pass through the line, rest is easy!

