

6 Considerations for Mobile Testing

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New to mobile?

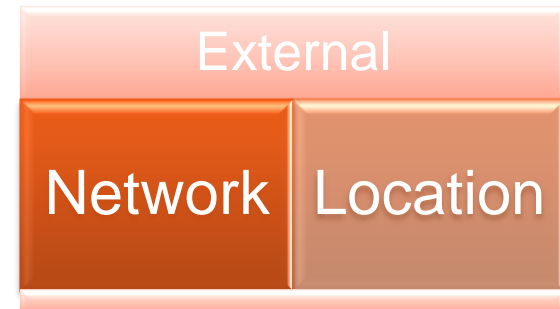
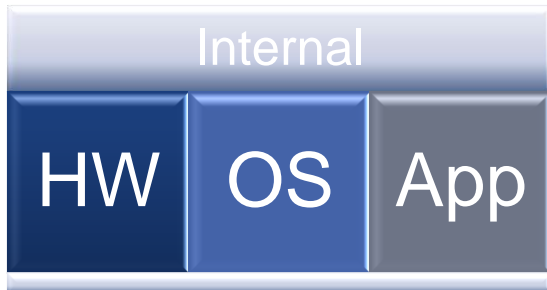
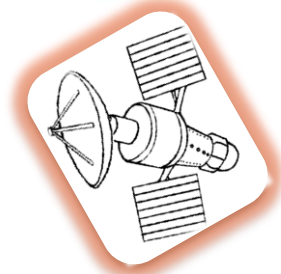
Our past experience can shape our views, our expectations, what we think to look for.

We know mobile is a “world without wires” but is there anything else different or unique from what we already know?

In testing, chase what matters!



User Scenario: *The Happy Newlyweds*



HW specs
Screen size
Interface



OS
Browser



Features
Stories



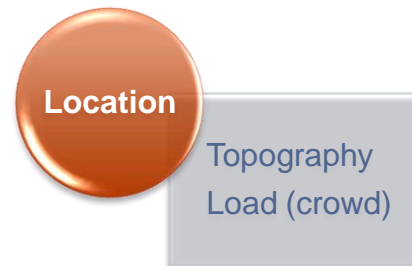
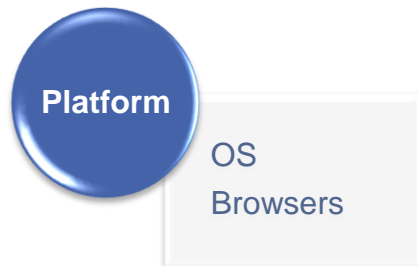
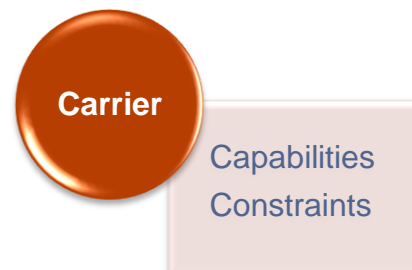
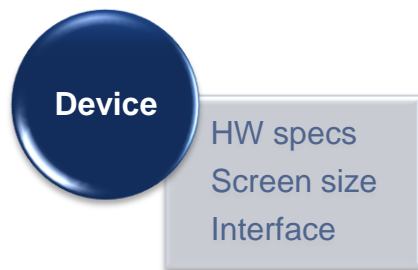
Capabilities
Constraints



Topography
Load (crowd)

The 6 Considerations

Which one is missing?

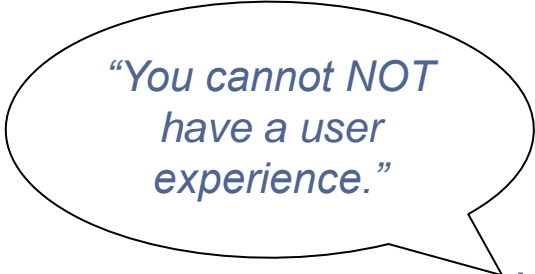


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The User!

The user is the ultimate consideration!

- What they want to do
- What they actually do
- What they like
- What they don't like

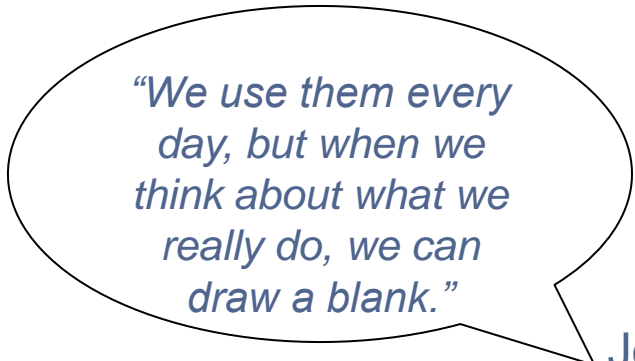


*“You cannot NOT
have a user
experience.”*

Lou Carbone,
Experience Management guru

Device considerations

- CPU
- memory
- Storage: removable?
- Battery life
- Screen size
- Antenna
- Interface: touchscreen?
- Keyboard: onscreen, tactile, T9?



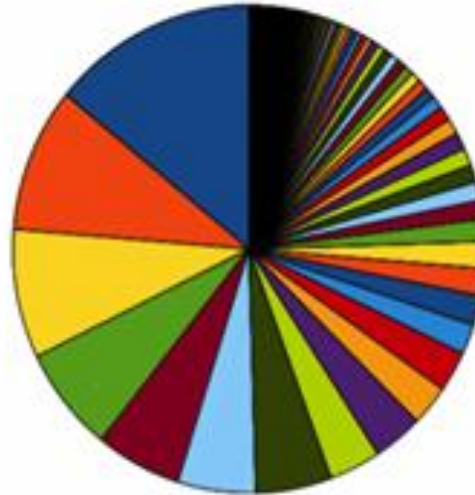
“We use them every day, but when we think about what we really do, we can draw a blank.”

Jon Bach,
eBay

Device cont...

Compatibility

Android TweetDeck Beta Users by Phone




You're gonna need a bigger Matrix, Neo!



- | | | | | |
|--|--|--|--|---|
| <ul style="list-style-type: none"> HTC Desire GT-I9000 SO-C118 HTC Legend ORIO2 T-Mobile G1 HTC Dream LG20 I901 GT-I9000M SPH-M910 GT-I5801 WetcoM-A88 MSM SCH-R880 Hero Devour SH-108 generic GT-I5500 GT-P1000 GWR20 | <ul style="list-style-type: none"> Droid ADR6300 Milestone X10 SPH-D700 T-Mobile myTouch 3G X10a HTC Tattoo GT540 SHW-M100S E10a SKY IM-A600S LG KH5200 GT-I9000B Milestone XT720 Orange San Francisco Plain Bill Dream WetcoM-A800 Chromatic Dream SU950 UB100 Tattoo | <ul style="list-style-type: none"> Nexus One SHW-M110S A853 HTC Wildfire SAMSUNG-SGH-I997 SCH-I800 T-Mobile G2 X06HT E10 FroyoEris SKY IM-A650S SHW-M130L A854 Incredible GT-I5800 I7500 Behold II M8501 UB110 Acer Liquid Android Dev-Phone 1 Chromatic Magic | <ul style="list-style-type: none"> PC36100 HTC Hero HERC200 Eris KT720 LU2300 Aily Dell Streak Liquid GT-I5500B Pulse Legend SKY IM-A630K HTC Liberty Liberty Orange_Boston DoCoMo HT-03A U20a Archos5 CMLMod1.5 nonsensikal froyo M852S | <ul style="list-style-type: none"> ORIOX SGH-T956 HTC Magic GT-I5700 T-Mobile myTouch 3G Slide SPH-M900 M8200 HTC HD2 Docomo HT-03A P899400 GT-I5503 Moto Droid XT800W Desire HD Galaxy Vodafone 845 UR250 M8300 M8502 Pulse Mini GT-I5700R Froyo Taz |
|--|--|--|--|---|

Platform considerations

- Compatibility
- Compliance
- Versioning
- Browsers
- Key interoperability



*“On each platform,
you have to consider
what the app is
butting heads with.”*

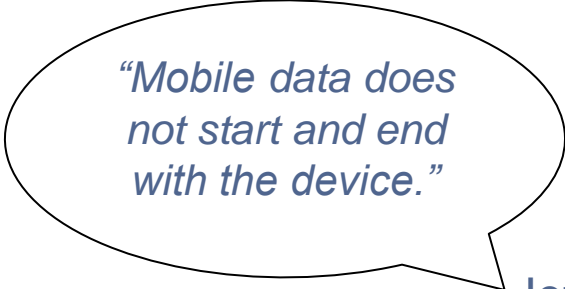
Matt Pina,
Alaska Airlines

Feature considerations

- What does it do?
- What shouldn't it do?
- What does it utilize?
 - Near-Field Communication (NFC)
- What does it store & where?
- How does it communicate?

Carrier Considerations

- Compliance
- Network APIs
- Network Behavior
- Emulators
- Staging Environments



“Mobile data does not start and end with the device.”

Jeff Franklin,
Quardev

Location considerations

- Coverage
- Topography:
 - Tunnels, elevators, etc.
- International:
 - Roaming?

My mnemonic device is LTE

- Platform
- Carrier
- Feature
- Location
- User
- Device

PC FLUD

Questions

Questions?

Thank You!

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Hope to see you at STARWest, CAST, PNSQC!

Additional Resources

- [5 Considerations for Mobile Device Testing – Quardev Newsletter January 2011](#)
- [Android Developer Guide – Testing](#)
- [Android Developer Guide – Preparing to Publish](#)
- [Android Developer Tutorial – Activity Testing](#)
- [Android Compatibility Program](#)
- [iOS Developer Library – iOS Simulator](#)
- [iOS Developer Library – Publishing Your App for Testing](#)
- [Apple App Store Review Guidelines](#)
- [deviceAnywhere](#)
- [Gomez Mobile Solution](#)
- [Verizon Developer Community – Network APIs](#)
- [Verizon API Certification Guidelines](#)
- [AT&T Developer Foundry](#)
- [AT&T Developer Sandbox](#)
- [iTrinegy Network Emulators](#)
- [CTIA – Industry Info](#)
- [CTIA - Certification](#)
- [“Go app-less” example: Laughing Gas Enterprises LLC](#)



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