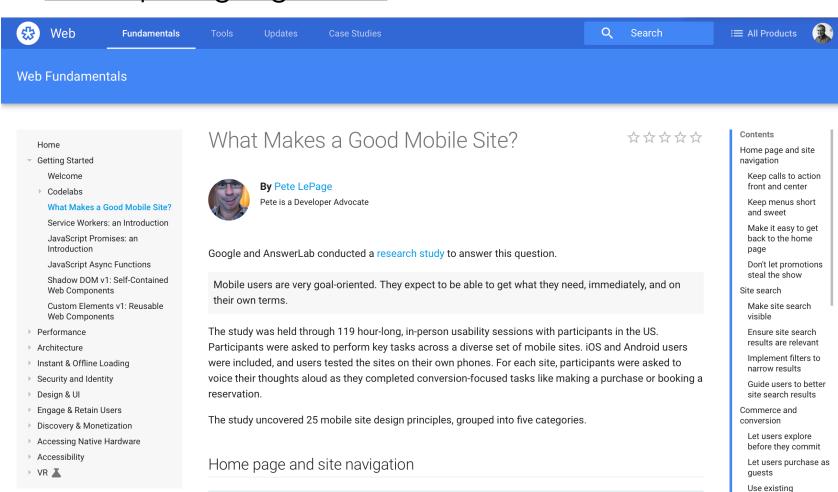
# HTML5 and CSS3 for Mobile Applications

What Makes a Good Mobile Site?

Prof. Paul Krause, University of Surrey

#### developers.google.com



Success: Focus your mobile homepage on connecting users to the content they're looking for.

information to

maximize

#### What do we want?

Mobile users are very <u>goal-oriented</u>. They expect to be able to <u>get what they need</u>, <u>immediately</u>, and <u>on their own terms</u>.

#### Googlebot Mobile Friendly Test

https://search.google.com/search-console/mobile-friendly

Checks to make sure your site:

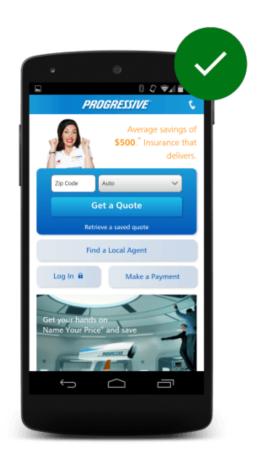
- Avoids software that is not common on mobile devices, like Flash
- Uses text that is readable without zooming
- Sizes content to the screen so users don't have to scroll horizontally or zoom
- Places links far enough apart so that the correct one can be easily tapped

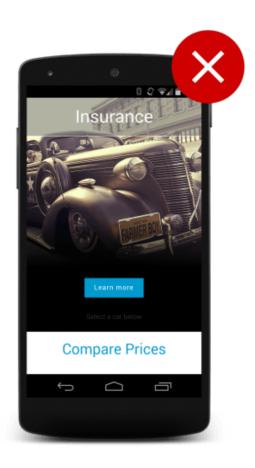
#### More Informative Guidelines

- 119 hour-long, usability sessions
- Revealed 25 mobile site design principles broken down into 5 categories

## 1.1 Home Page and Site Navigation

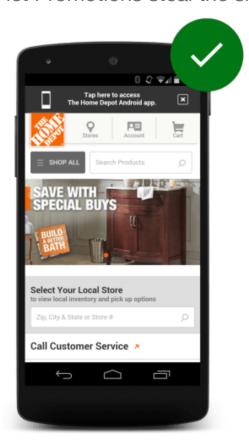
Keep Calls to Action Front and Centre

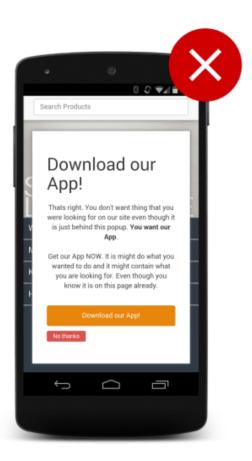




#### 1.4 Home Page and Site Navigation

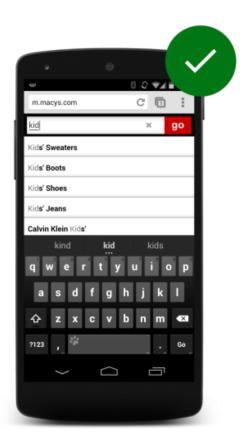
Don't let Promotions steal the show

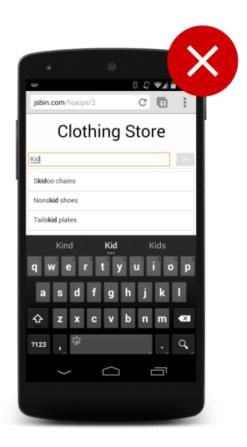




#### 2.2 Site Search

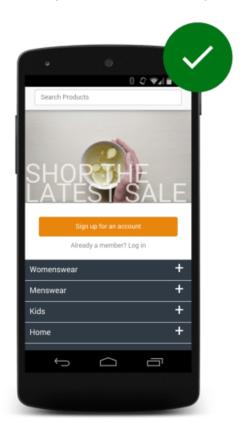
• Ensure site search results are relevant

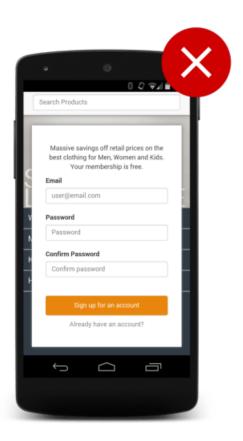




#### 3.1 Commerce and conversion

Let Users explore before they commit





- 4. Form Entry
- 5. Usability and Form Factor

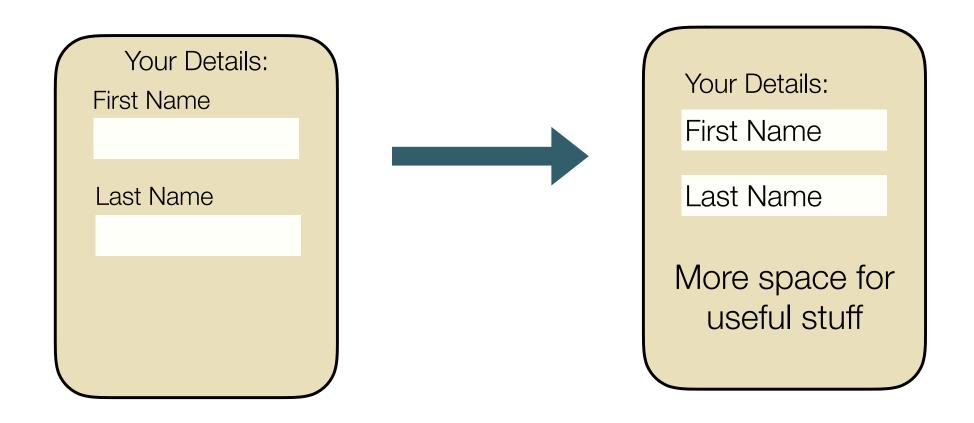
Mobile First

Minimising the number of navigation options on each screen helps users focus on what they need to do and helps to prevent errors such as accidentally tapping through to another task.

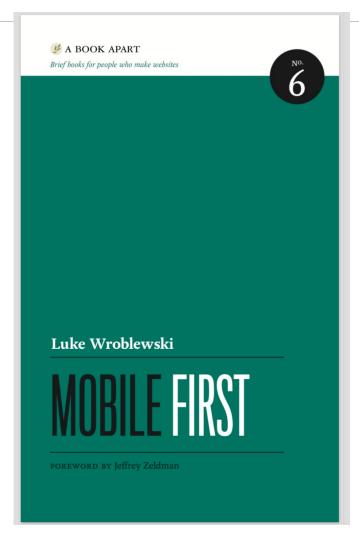
Review carefully the key Mobile use cases like lookup/find, explore/play, check-in/ status, and edit/create to allow you to think through how your site will be used on mobile and adjust its structure appropriately.

Focusing on content first, navigation second gets people to the information and tasks they want quickly. Relevant and well-placed navigation options allow people to dive deeper or pivot to explore other parts of your site. Reducing the amount of navigation choices and chrome on key tasks maintains clarity and focus on what people need to accomplish—helpful when they are hurried or in less than ideal situations.

#### In general - remember to be parsimonious



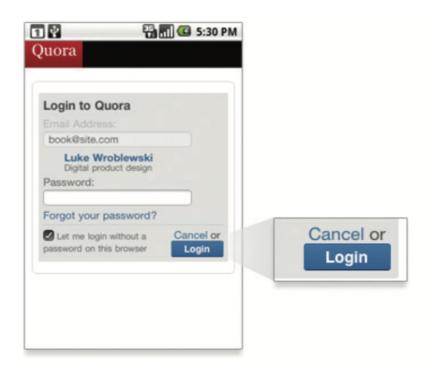
### Useful Guidelines on Mobile First Development



# Go big with appropriately sized and positioned touch targets



VS.



Learn the language of touch by familiarizing yourself with common touch gestures and how they are used to navigate and interact with objects and screens.



BASIC ACTIONS				
user action	gesture	description		
Change mode	press	Touch surface for extended period of time		
Select	tap	Briefly touch surface with fingertip		

Don't be afraid to push toward natural user interfaces (NUIs) that make content (not chrome) the focus of people's actions.

OBJECT-RELATED ACTIONS				
user action	gesture		description	
Delete		drag (across item or off-screen)	Move fingertip over surface without losing contact	
Duplicate	0 ~ ~~	tap (source and destination)	Touch object, then touch elsewhere on surface	

NAVIGATING ACTIONS				
user action	gesture	description		
Scroll	drag	Move fingertip over scrollbar without losing contact		
Scroll (fast)	flick	Quickly brush surface with fingertip in the direction you want to scroll		

http://www.lukew.com/ff/entry.asp?1197

Transition your on-hover menus to mobile using the most appropriate solution for your site.



Remember to consider non-touch and hybrid devices when designing your mobile web interactions

Look up "Progressive Enhancement": <a href="https://en.wikipedia.org/wiki/Progressive\_enhancement">https://en.wikipedia.org/wiki/Progressive\_enhancement</a>