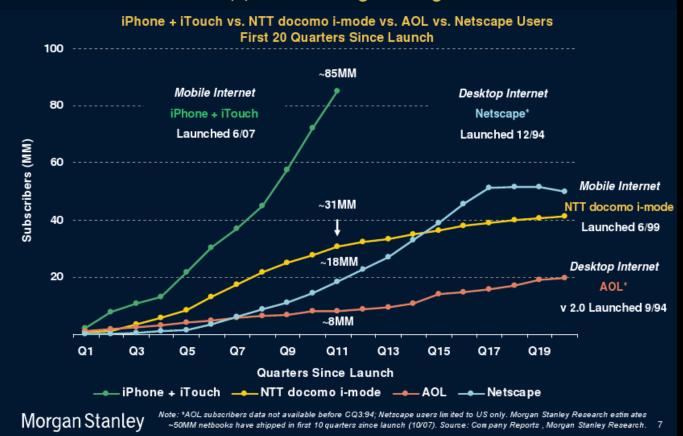
# Web Pages and Smart Phones

(With thanks to Marty Stepp and John Zahorjan)

## Who Cares?

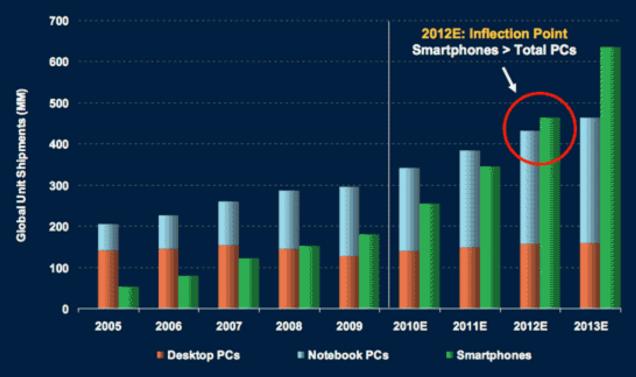
# Mobile Internet Ramping Faster than Desktop Internet Did – Apple Leading Charge



## Who Cares?

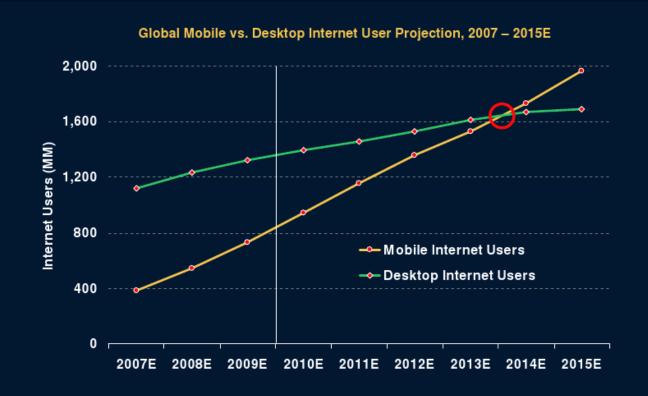
# Smartphone > PC Shipments Within 2 Years — Implies Very Rapid / Land Grab Evolution of Internet Access

Global Unit Shipments of Desktop PCs + Notebook PCs vs. Smartphones, 2005 - 2013E



# Who Cares?

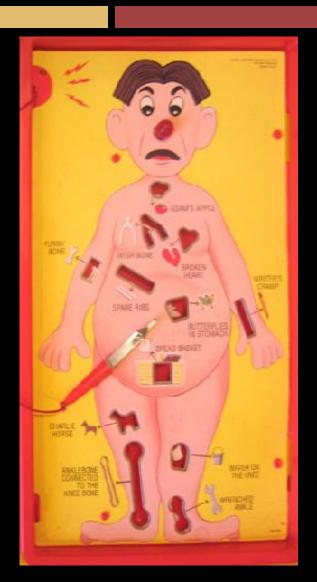
# Mobile Users > Desktop Internet Users Within 5 Years



## **Android Emulator!**

## As it turns out:

- Phones are small
- Eyes are bad
- Fingers are fat

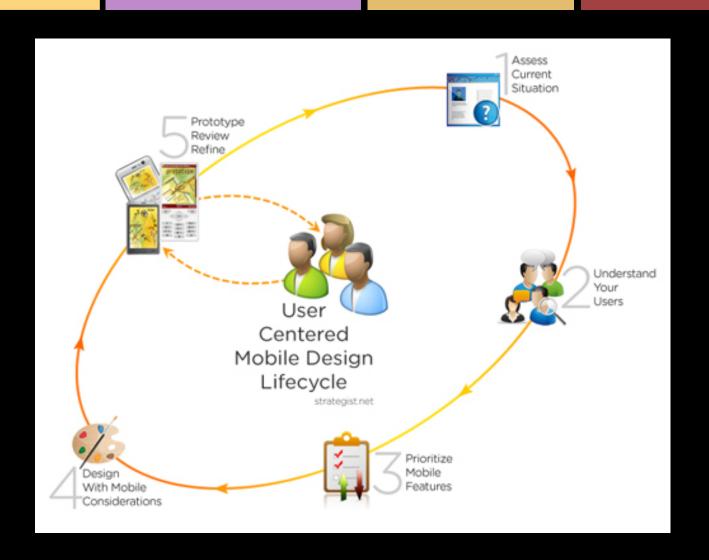


# **Design All The Things!**

Why does Amazon change the look of their page for mobile users?

Do they change the feel at all?

# **Design All The Things!**



# **Design All The Things!**

#### Important questions to consider

- 1. Why do people go to your website?
- 2. Why on their phone?
- 3. What physical situation are they in?
- 4. How big is their phone?

# **Size Matters**



# Fix The Existing Code!

Thankfully the internet came before smart phones

Small fixes = big difference

## I'm So Meta Even This Acronym

#### Meta tag - info about the page

```
<meta name="HandheldFriendly"
content="true" />
```



```
<meta name="viewport"
content="width=device-width,
height=device-height, user-scalable=no"
/>
```

What if a major overhaul is needed?

=> Really optimize for mobile phones

Create your own version of the page for mobile phones

With Javascript or PHP, you can detect specific browsers (e.g. mobile Chrome)

But with CSS it's really easy

@media tag in CSS (not an html tag!)

- Sections off CSS code to only apply to one type of media
- Types
  - o all
  - screen (like your desktop or your phone)
  - print (printer)
  - projection
  - etc. (<a href="http://www.w3schools.com/css/css\_mediatypes.asp">http://www.w3schools.com/css/css\_mediatypes.asp</a>

#### What we care about

```
@media only screen and (max-device-width: ???px) {
    body {
        font-family: "Comic Sans";
    }
}
body {
    font-family: "Papyrus";
}
```

## Further Reading (Lots of Good Stuff)

http://learnthemobileweb.com/2009/07/mobile-meta-tags/

http://www.alistapart.com/articles/putyourcontentinmypocket/

http://www.smashingmagazine.com/2011/05/02/a-user-centered-approach-to-mobile-design/

http://mobiforge.com/designing/story/effective-design-multiple-screen-sizes

http://www.smashingmagazine.com/2009/09/27/showcase-of-designs-optimized-for-iphone/

http://webdesign.about.com/od/mobile/a/write-web-pages-for-the-iphone.htm

http://woork.blogspot.com/2008/07/tips-to-design-your-site-for-mobile.html

http://coding.smashingmagazine.com/2011/06/30/designing-for-android/

Good ol' Googling will turn up a lot more too!