REAL WORLD RESPONSIVE DESIGN WORKSHOP

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INTRODUCTIONS

TODAY'S AGENDA

- What Is Responsive Design?
- Making The Most of Measurements
- Where To Begin
- Mobile First?
- Putting It All Together
- Questions & Answers

SRESPORSIVE

"The control which designers know in the print medium, and often desire in the web medium, is simply a function of the limitation of the printed page. We should embrace the fact that the web doesn't have the same constraints, and design for this flexibility. But first, we must 'accept the ebb and flow of things.""

John Allsopp, "A Dao of Web Design"

"When you combine fluid and flexible layouts with media queries to create websites that work regardless of the screen they're being viewed on."

Mike Gibson, "This Keynote Deck"

FLUID

- Uses flexible measurements
- Retains the same layout regardless of environment

RESPONSIVE

- Adds media queries
- Can achieve different layouts based on environment

ANATOMY OF A MEDIA QUERY

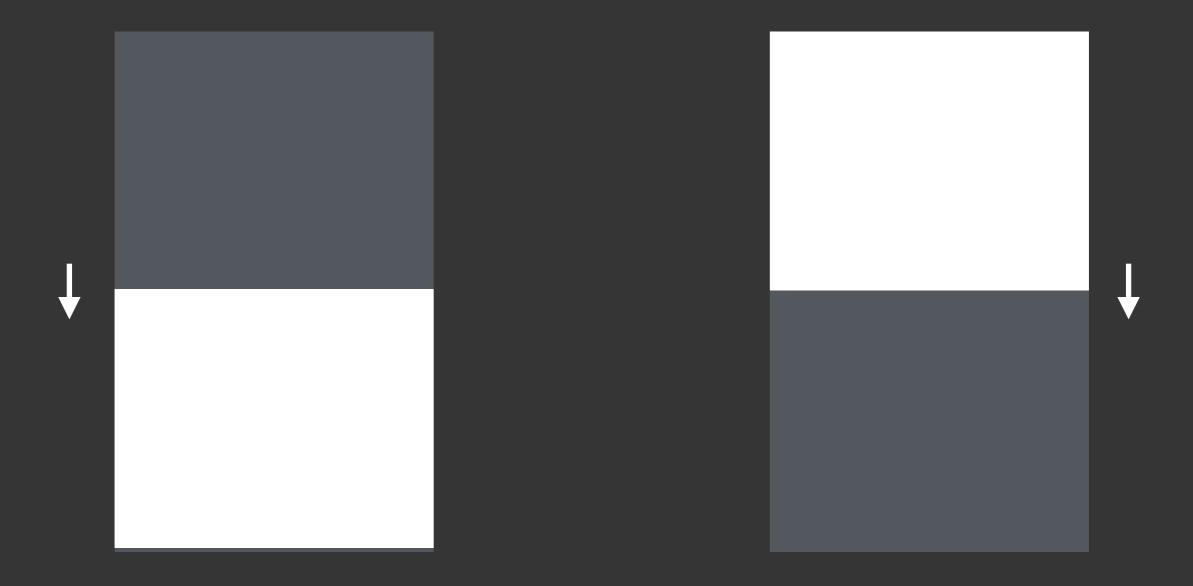
WIDTH

```
(min-width: 500px)
```

(max-width: 500px)

HEIGHT

(min-height: 500px) (max-height: 500px)



ORIENTATION



(orientation: landscape)

ORIENTATION



(orientation: portrait)

THE CSS CASCADE

```
p { color: orange; }
@media screen and (min-width: 500px) {
  p { color: black; }
}
```

This paragraph is black.

THE CSS CASCADE

```
@media screen and (min-width: 500px) {
  p { color: black; }
}
p { color: orange; }
```

This paragraph is orange.

THEWHELL?

FRAMEWORKS

- Bootstrap
- Foundation
- Golden Grid System
- Gumby
- Skeleton
- Pure

BENEFITS

- Quicker to implement
- Well tested

COMPROMISES

- No knowledge of your site's content or purpose
- More effort needed for customization

MEASUREMENTS

PIXELS

- Relative only to themselves
- Precise
- Consistent across page elements
- Easy: Photoshop it, set it, forget it

USE CASE

Fixed width ad column

EM

- Relative to the inherited font-size
- Puts focus on proportion
- Easy resizing
- 1em ≠ 1em

USE CASE Type Systems

REM

- Relative to the root font-size (<html>)
- More predictable assignment
- Less browser support (IE9+)
- Calculated size obscured

USE CASE Type Systems

PERCENTAGES

- Relative to the width of their parent
- Fluid
- Predictable
- Work different for box model/fonts

USE CASE

Layout Scaffolding

VIEWPORT UNITS (vh/vw)

- Relative to width of viewport
- More consistent than percentages
- Consistent vertical measurements
- Less browser support (IE9+)

USE CASE

Full screen components

CRY?

NAPKIN?

CODE?

MOBILE?

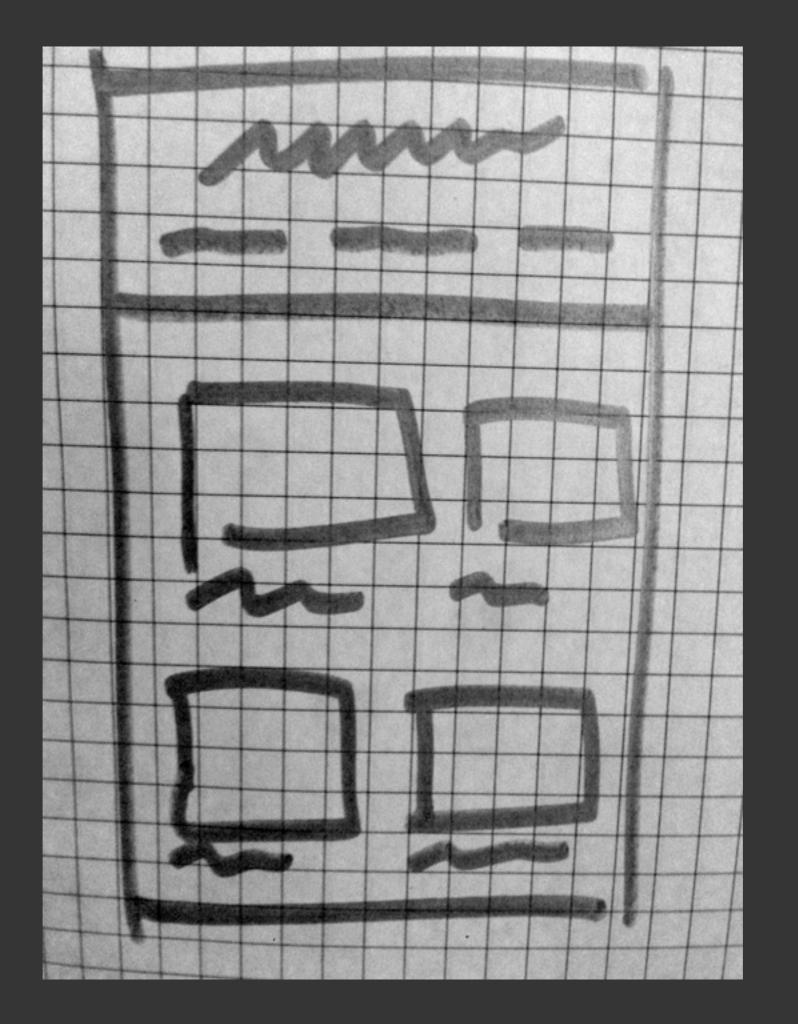
DESKTOP?

PHOTOSHOP?

WHAT ARE WE MAKING?

SKETCHES

- Quick idea generation
- Easy to do with a team
- Get stakeholders involved
- Low-fidelity keeps you from getting locked into decisions too early
- Start drawing a roadmap



MOBILE FIRST?

MOBILE FIRST WHAT DOES IT MEAN?

"Mobile is exploding"

Luke Wroblewski. http://www.lukew.com/ff/entry.asp?933

MOBILE FIRST WHAT DOES IT MEAN?

"Mobile forces you to focus"

Luke Wroblewski. http://www.lukew.com/ff/entry.asp?933

MOBILE FIRST WHAT DOES IT MEAN?

"Mobile extends your capabilities"

Luke Wroblewski. http://www.lukew.com/ff/entry.asp?933

BUT...

...we already have a fully fleshed out large screen design.

...we are building on a large screen.

...our client doesn't have a small screen device.

...we need to support IE8.

CODE