

# Responsive Design

by Justin Shacklette

# About Me

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- I write code!
- Gorilla Logic
- Physics PhD
- Blogger
- Speaker
- Teacher



# My Advice

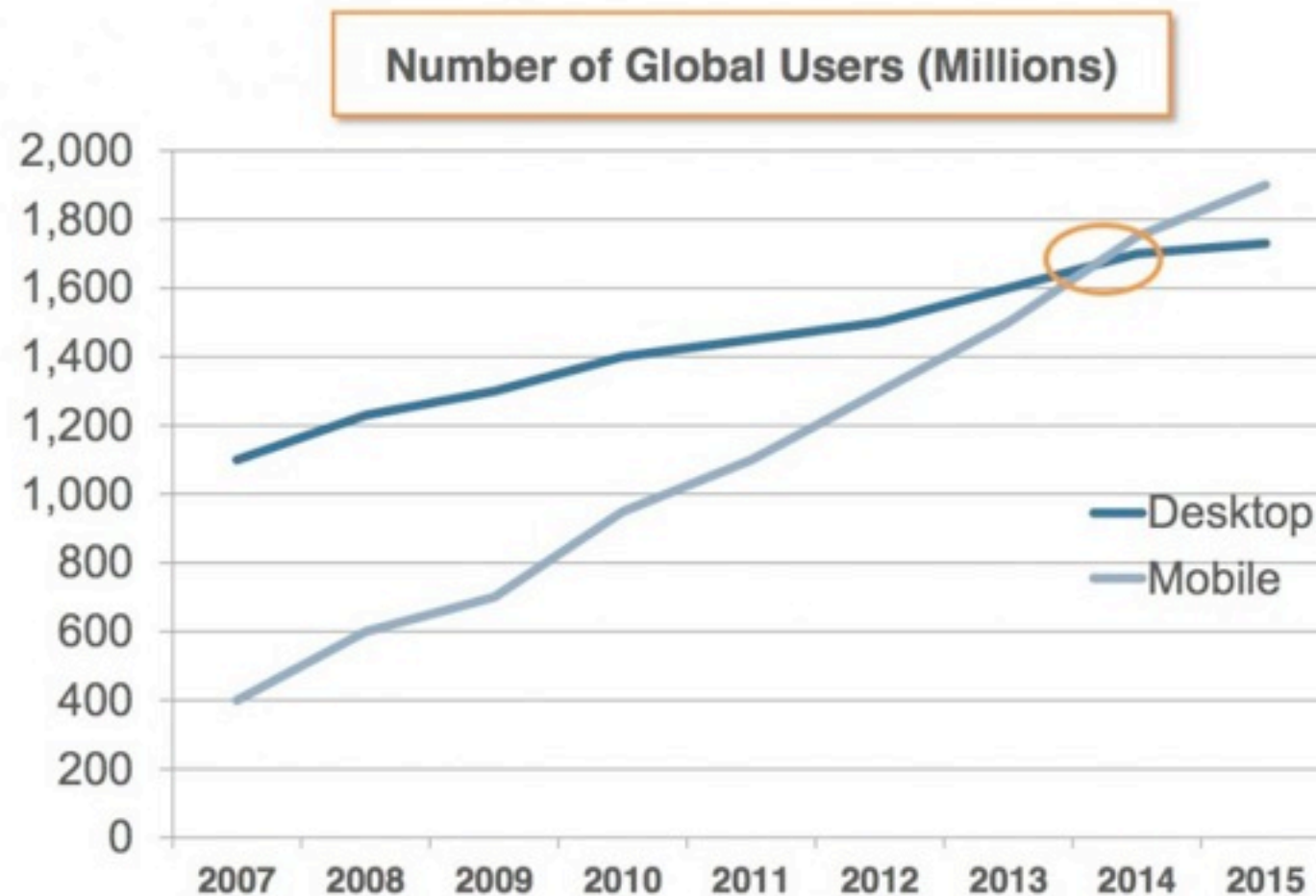
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- Have some passion
- Keep learning
- Don't be afraid of the mud

# It's a mobile world

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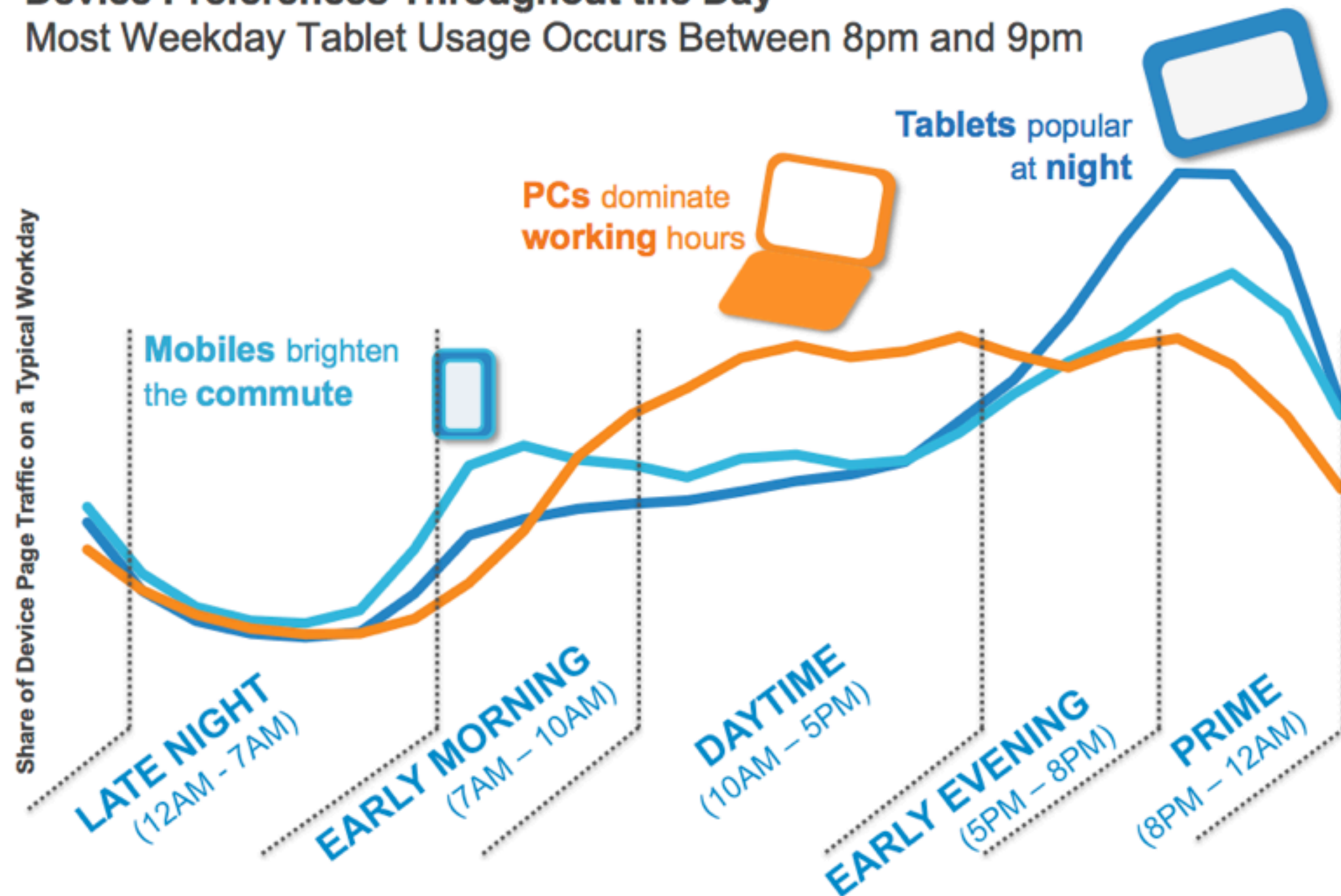
- ~1 billion smart phones today
- Usage: mobile > desktop by 2014



# Daily Usage Pattern

## Device Preferences Throughout the Day

Most Weekday Tablet Usage Occurs Between 8pm and 9pm



You **MUST** be  
**Mobile too!**  
but lots of options...



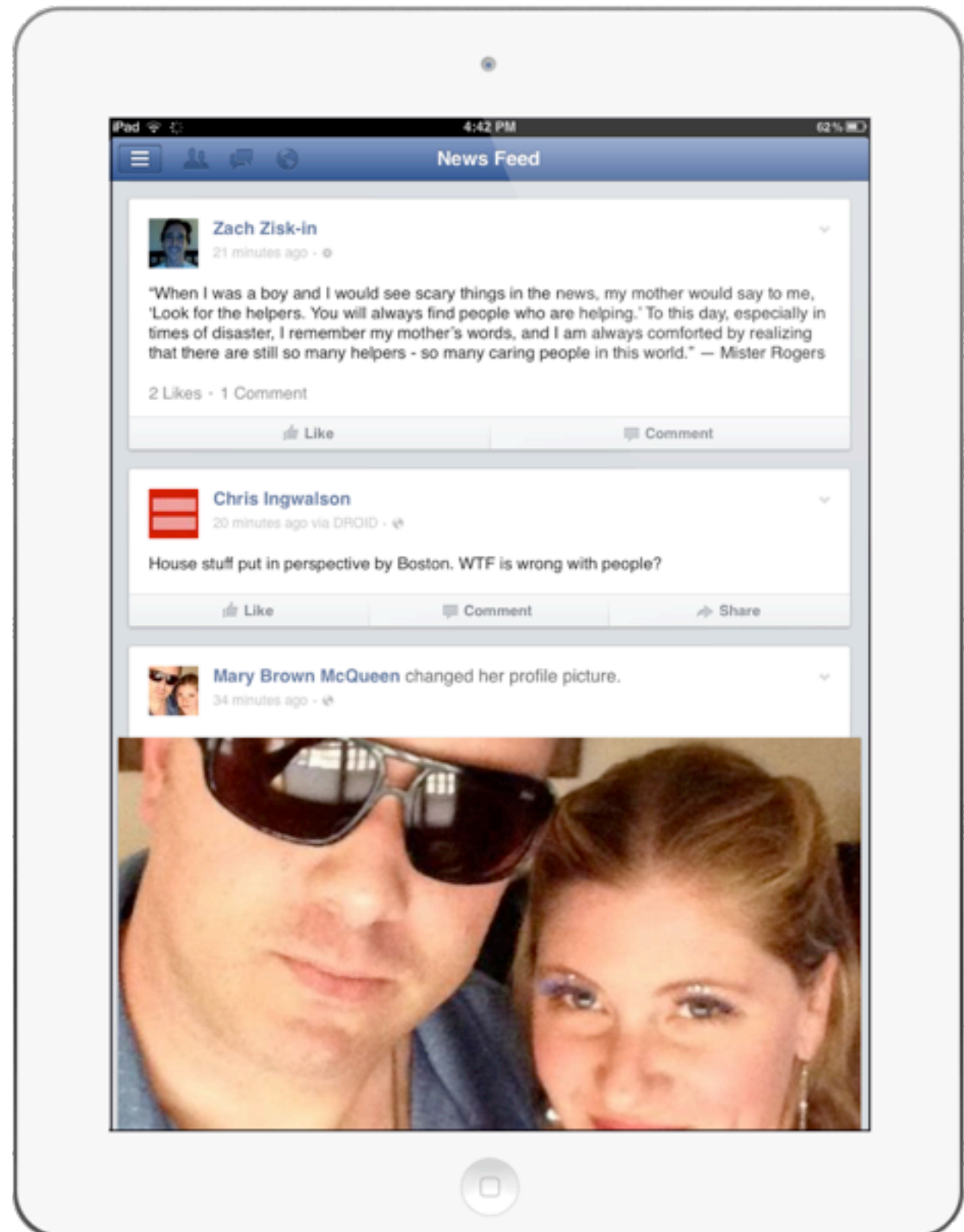
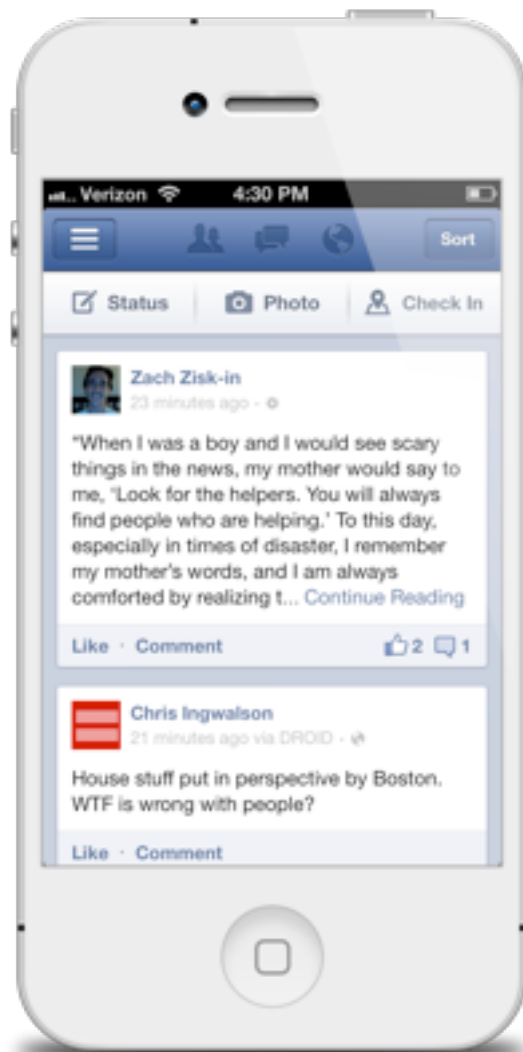
# Mobile Options

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1. App (native or hybrid)
2. Mobile Website
3. Responsive Website

# 1. Mobile App

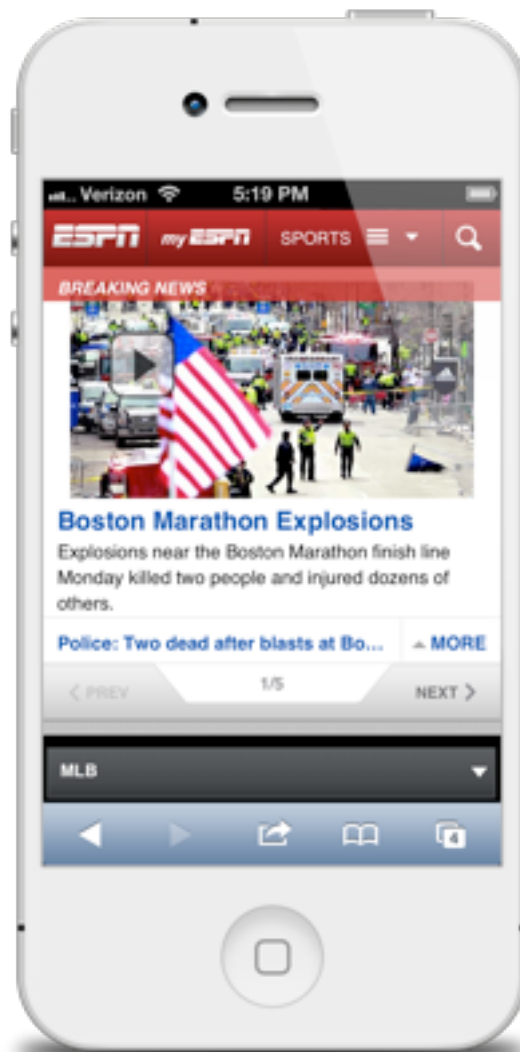
## -Facebook App





# 2. Mobile Website

-ESPN



# 3. Responsive Website

- Boston Globe





# 3. Responsive Website

-Colly.com



# Responsive Design...

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- Adapts to different screen sizes
- Single website, multiple **views**
- Same text, just reformatted (usually)
- Avoids major changes

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**Opportunity to be creative!**

# Responsive Design...

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# User Experience Design

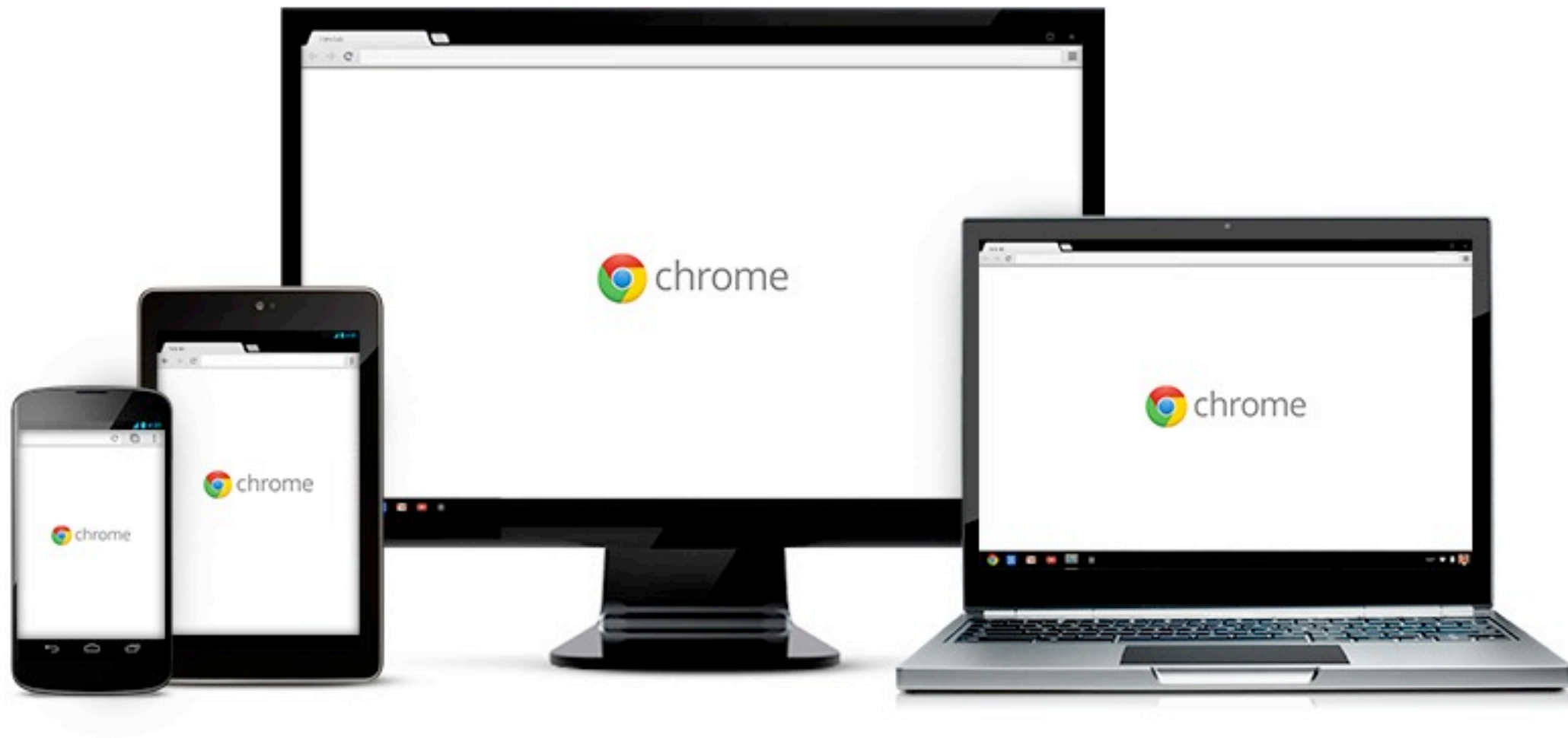
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- aka UX, UXD, Interaction Design, UI/UX
- All about the user's experience
- Sitemap, Page layout
- Navigation
- Content, Callouts, Typography, Colors
- Part designer, part developer

# Responsive UX is 3x

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- Phone, Tablet, Desktop (4x with large desktop)



# Ex 1

paper mockups

# Ex 1

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Start with your Portal...

...and make a mockup of a mobile Portal

# Responsive Patterns

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- Fluid Reflow
- Column Dropping
- Stacking
- Lots more:

<http://bradfrost.github.io/this-is-responsive/patterns.html>

# CSS 3 media query

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- When loading the stylesheet:

```
<link rel="stylesheet"  
      media="screen and (max-width:480px)"  
      href="my-phone.css" />
```

- In the stylesheet itself:

```
@media (max-width:480px) {  
  
}
```



# Ex 2

CSS3 @media queries

# Ex 2

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Download the exercises:

[https://github.com/saturnboy/responsive\\_design/archive/master.zip](https://github.com/saturnboy/responsive_design/archive/master.zip)

# Ex 2

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```
/* Large desktop */
```

```
@media (min-width:980px) {  
}
```

```
/* Portrait tablet to landscape and desktop */
```

```
@media (max-width:979px) {  
}
```

```
/* Landscape phone to portrait tablet */
```

```
@media (max-width:767px) {  
}
```

```
/* Landscape phones and down */
```

```
@media (max-width:480px) {  
}
```

# Bootstrap

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- aka Twitter Bootstrap
- Frontend framework
  - includes: CSS, Grids, Components, jQuery
- Responsive Design
- Very fast & easy to use
- Very hot!
- <http://twitter.github.io/bootstrap/>

# Ex 3

bootstrap kung fu

# Ex 3

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1. bootstrap grid
2. bootstrap fluid grid
3. bootstrap form



# More Cool Stuff

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- Font Awesome

- better icons for bootstrap

- <http://fontawesome.github.io/Font-Awesome/>

- LayoutIt!

- site "builder" / layout engine for bootstrap

- <http://layoutit.com/>

- Bootstrap 3.0

- coming this summer, more of everything...

# More Links

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## -Media Queries & Responsive Design

- <http://webdesignerwall.com/tutorials/css3-media-queries>
- <http://www.w3.org/TR/css3-mediaqueries/>
- <http://alistapart.com/article/responsive-web-design>

## -Examples

- <http://www.bostonglobe.com/>
- <http://colly.com/>
- <http://teegallery.com>
- <http://d.alistapart.com/responsive-web-design/ex/ex-site-flexible.html>

# Talk To Me

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