CSS3, Media Queries, Responsive Design

May 23, 2012 STC Summit Zoe Mickley Gillenwater | @zomigi

What I do

Books



Zoe Mickley Gillenwate

Stunning CSS3: A Project-based Guide to the Latest in CSS

www.stunningcss3.com

Web Accessibility specialist at AT&T Visual designer CSS developer and consultant



Flexible Web Design: Creating Liquid and Elastic Layouts with CSS

www.flexiblewebbook.com

My home's web-enabled devices



more mobile devices & more diversity within devices EVERY DAY

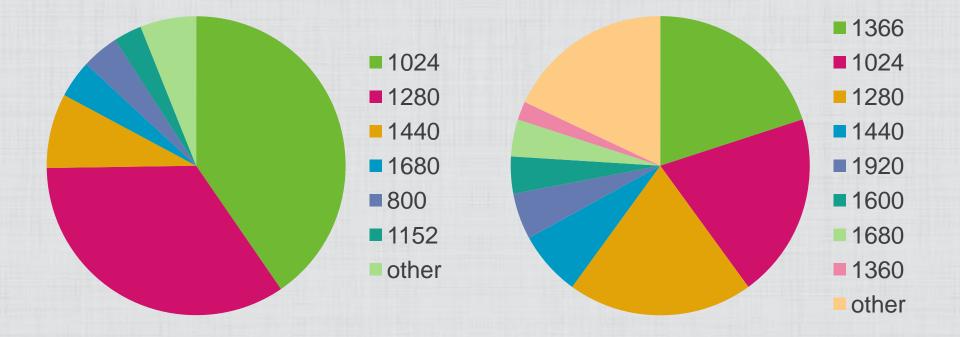
every day **1.45 MILLION DEVICES** 317,124 BABIES enter the world

Source: http://www.lukew.com/ff/entry.asp?1506

Growing screen resolution diversity on desktop

May 2009 widths

May 2012 widths



Source: http://gs.statcounter.com

25% of U.S. smartphone users do MOST OR ALL of their web browsing on mobile

Source: http://www.lukew.com/ff/entry.asp?1405

how can our sites accommodate all this DIVERSITY

Introducing media queries

- Awesome new part of CSS3
- Simple way to feed different CSS based on characteristics of user's device
- Used to build responsive/adaptive designs
- Not:
 - for feeding styles based on browser
 - just for feeding styles based on viewport size

Media query syntax: internal

```
body {
```

```
background: gray;
```

```
@media screen and (max-width:500px) {
   body {
      background: blue;
   }
}
```

English translation:

Make the background gray. But up to a maximum width of 500 pixels, make the background blue.

Flip flop it

```
body {
    background: blue;
}
@media screen and (min-width:501px) {
    body {
        background: gray;
    }
```

English translation:

Make the background blue. But at and past the minimum width of 501 pixels, make the background gray.

How it looks

Media queries × +			
← → C file:///C:/Users/Zoe/WORK/PRESENTATIONS/CSS%20Summit%202011/test 😭 💿 🔜 🔧			
🔇 Bookmark on Delici 📲 My Delicious 🤗 my recipes 🔇 Fave It! 🔇 Add to	Wish List 🦳 media queries 📋 to file		
The background will be gray when	the viewport is e under 501 pixels.		
← → C ☆ ③ file:///C:/Users/Zoe/WORK/PRE ☆ ● 🔜 🔧			
Sookmark on Delici ■ My Delicious Song my recipes Song Fave It! >>			
The background will be gray when the viewport is wider than 500 pixels. It will be blue under 501 pixels.			

Media query syntax: external

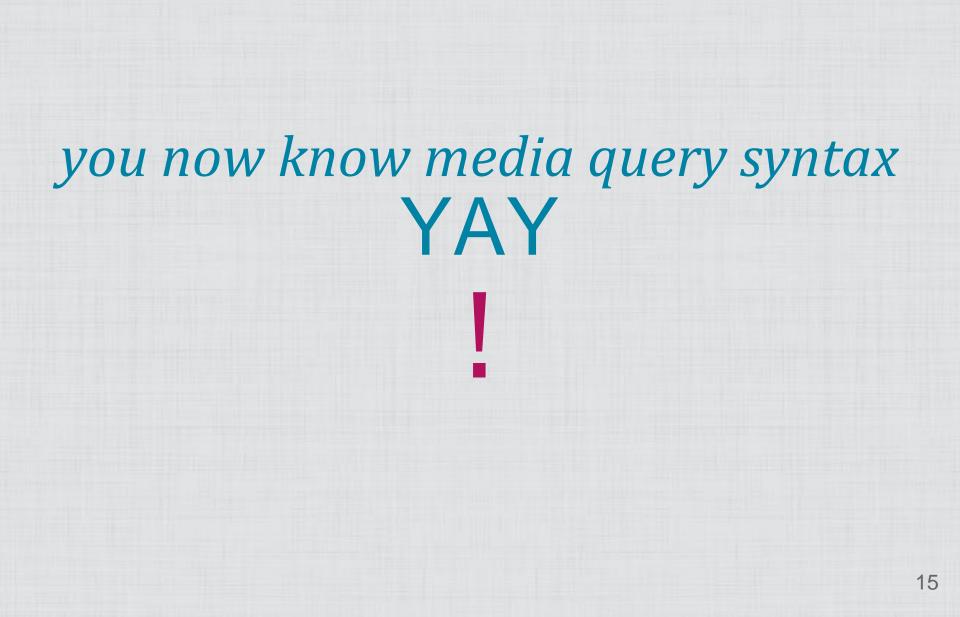
Extend the existing media part of the link element or @import rule:

<link href="narrow.css" rel="stylesheet"
media="only screen and (max-width:500px)">

@import url(narrow.css) only screen and
(max-width:500px);

Recommendation: internal

- Main advantages:
 - No extra HTTP request(s)
 - Not out of sight and forgotten
- Learn full pros/cons: www.zomigi.com/blog/ essential-considerations-crafting-qualitymedia-queries



but media queries don't actually DO anything

it's the CSS **INSIDE** *that changes the appearance*

Width-dependent layout changes

- Responsive web design:
 - Media queries + fluid layouts + fluid media
 - See www.alistapart.com/articles/responsiveweb-design/
- Adaptive layouts:
 - Media queries + fixed-width layouts
 - See www.netmagazine.com/tutorials/ adaptive-layouts-media-queries

Retrofitting responsiveness

- Typical to add on media queries for both smaller and wider styles
- CSS before media queries is default
- Can take different approach when starting from scratch
 - Start with "mobile," layer on wider styles?
 - Start with "desktop," layer on narrower styles?
 - Start with something in between for majority?

Starting with desktop styles

Pros:

- No extra work to make majority width appear correctly on IE 6-8
- Easiest way to retrofit existing site

Cons:

- Mobile devices may have to download unneeded desktop assets
- Need separate style sheets or JavaScript to make mobile design appear in IE Mobile 7 and other older mobile browsers

Starting with mobile styles

Pros:

- Mobile devices won't download unneeded desktop assets
- Older, non-mediaquery-supporting mobile browsers still get the mobile styles without any extra work

Cons:

- Desktop devices may have to download unneeded mobile assets
- Need separate style sheets or JavaScript to make majority desktop design appear in IE 6-8

Our starting point



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quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit

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Very wide: awkward

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Very narrow: awkward

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Wide-screen media query

/*all the other styles up here*/

@media screen and (min-width: 1200px) {
 /*styles for larger screens in here*/

Add third column

```
@media screen and (min-width: 1200px) {
    #nav-main {
       position: fixed;
       top: 136px;
        width: 13%;
        margin: 0;
    #content-main {
        width: 58%;
        margin-left: 18%;
    #content-secondary { width: 20%; }
```

Style nav as vertical menu

@media screen and (min-width: 1200px) {

#nav-main li {
 float: none;
 margin: 0;
 }
#nav-main a {
 -moz-border-radius: 0;
 -webkit-border-radius: 0;
 border-radius: 0;

Wide-screen design

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Small-screen media query

/*all the other styles up here*/

@media screen and (max-width: 760px) {
 /*styles for smaller screens in here*/

Remove columns from text

@media screen and (max-width: 760px) {
 h1 + p {
 -moz-column-count: 1;
 -o-column-count: 1;
 -webkit-column-count: 1;
 column-count: 1;

Stack feature boxes

@media screen and (max-width: 760px) {

.feature {
 float: none;
 width: auto;
 margin: 0 0 1.6em 0;
 padding: 0 0 0 140px;
 background-position: top left;

Narrowscreen design



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pause for CAVEATS & CLARIFICATIONS Some sites would be better served with a separate site for mobile devices instead of using media queries. Even if a separate mobile site would be best, using media queries is a good first step if a separate site isn't currently feasible. "The choice is not between using media queries and creating a dedicated mobile site; the choice is between using media queries and doing nothing at all."

> —Jeremy Keith http://adactio.com/journal/1696/

You can add media queries to a dedicated mobile site in order to cater to the wide range of mobile viewport sizes.

If you do use media queries on a single site, they're not the only tool you can use-you can add scripting as well to further customize the content, markup, functionality, etc.

Media queries are only meant to solve the problem of mobile's small viewports, not all the other things that can make mobile browsing different (such as context, bandwidth, etc.).

"It's making sure your layout doesn't look crap on diff. sized screens."

back to CSS

Mobile media query

/*all the other styles up here*/

@media screen and (max-width: 550px) {
 /*styles for tiny screens in here*/

Non-overlapping version

}

@media screen and (min-width: 551px) and
(max-width: 760px) {

/*styles for small screens in here*/

@media screen and (max-width: 550px) {
 /*styles for tiny screens in here*/

Media features for mobile

min-width max-width device-width min-device-width max-device-width orientation min-device-pixel-ratio -webkit-min-device-pixel-ratio min--moz-device-pixel-ratio -o-min-device-pixel-ratio

Useful media features for mobile

min-width max-width device-width min-device-width max-device-width orientation min-device-pixel-ratio -webkit-min-device-pixel-ratio min--moz-device-pixel-ratio -o-min-device-pixel-ratio

Changing to single column

@media screen and (max-width: 550px) {
 #content-main, #content-secondary,
 #about, #credits {
 float: none;
 width: 100%;

Changing feature images

@media screen and (max-width: 550px) {

.feature { padding-left: 70px; } #feature-candy { background-image: url(icon_candy_64.png); #feature-pastry { background-image: url(icon_pastry_64.png); #feature-dessert { background-image: url(icon_dessert_64.png);

Mobile design



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Viewport meta tag

Forces mobile devices to scale viewport to actual device width

<meta name="viewport" content="width=device-width">

Zoom problem in iOS

- Remember: device-width on iOS devices always matches portrait width
- This means design doesn't reflow when you switch to landscape, but instead just zooms

Fixing (and adding) zoom issues

- Option 1: add maximum-scale=1
 - But disables user scaling

<meta name="viewport" content="width=device-width, maximum-scale=1">

- Option 2: add initial-scale=1
 - Allows user scaling
 - But triggers over-zoom/crop bug when changing from portrait to landscape

```
<meta name="viewport"
content="width=device-width, initial-scale=1">
```

The best way to fix zoom issues

- Option 3: add initial-scale=1 plus script to fix over-zoom bug
 - See http://filamentgroup.com/lab/a_fix_for_ the_ios_orientationchange_zoom_bug/

```
<head>
```

. . .

```
<meta name="viewport"
content="width=device-width, initial-scale=1">
<script src="ios-orientationchange-fix.js">
```

</head>

. . .

View it live

http://stunningcss3.com/code/bakery/



More responsive examples

• Design patterns:

- "Multi-Device Layout Patterns" by Luke Wroblewski: www.lukew.com/ff/entry.asp?1514
- "Responsive Navigation Patterns" by Brad Frost: http://bradfrostweb.com/blog/web/ responsive-nav-patterns/

• Inspiration:

- Gallery: http://mediaqueri.es/
- My own bookmarks: https://gimmebar.com/ loves/zomigi/tag/mediaqueries

Dealing with IE 8 and earlier

- Conditional comments
- JavaScript

Conditional comments

- Split styles into separate sheets and feed applicable sheet to IE based on whether it's IE on desktop or mobile
- Approach varies based on which set of styles are your default

Conditional comment when desktop styles are default

Feed IE Mobile 7 media query sheet:

k rel="stylesheet" href="global.css" media="all">

<link rel="stylesheet" href="mobile.css" media="all
and (max-width: 700px)">

<!--[if IEMobile 7]> <link rel="stylesheet" href="mobile.css" media="all"> <![endif]-->

Source: http://blogs.msdn.com/b/iemobile/archive/2010/12/08/targeting-mobileoptimized-css-at-windows-phone-7.aspx

Conditional comment when mobile styles are default

Feed older IE media query sheet, hide from IE Mobile 7:

<link rel="stylesheet" href="global.css" media="all">

```
<link rel="stylesheet" href="desktop.css" media="all
and (min-width: 700px)">
```

```
<!--[if (lt IE 9)&(!IEMobile 7)]>
<link rel="stylesheet" href="desktop.css" media="all">
<![endif]-->
```

Source: http://adactio.com/journal/4494/

Pre-fab JavaScript for nonsupporting browsers

- Simply add one of these scripts:
 - Respond: https://github.com/scottjehl/Respond
 - css3-mediaqueries.js: http://code.google.com/p/css3-mediaqueries-js/
- Avoid extra HTTP request for non-old-IE browsers using conditional comments:
 <!--[if (lt IE 9)&(!IEMobile 7)]>
 <script src="respond.min.js"></script></script>
 <![endif]-->

WHAT ELSE can media queries do

Swapping images on high-res displays

@media

screen and (moz--min-device-pixel-ratio : 1.5),
screen and (-o-min-device-pixel-ratio : 3/2),
screen and (-webkit-min-device-pixel-ratio : 1.5),
screen and (min-device-pixel-ratio : 1.5) {

Swapping images on high-res displays

@media ... screen and (min-device-pixel-ratio : 1.5) {
 .feature {

-moz-background-size: 64px 64px; -webkit-background-size: 64px 64px; background-size: 64px 64px;

#feature-candy {
 background-image: url(icon_candy_128.png); }
#feature-pastry {
 background-image: url(icon_pastry_128.png); }
#feature-dessert {
 background-image: url(icon_dessert_128.png); }

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Download slides and get links at http://zomigi.com/blog/responsive-webdesign-presentation

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