

Lecture 6

Previous lecture:

Assignment 3: Hands-on ... Evaluate today!

Pre-reading:

03.10	6 lessons	HTML and CSS: Chapter 12, Building Responsive Webpages
8:30		The 2014 Guide to Responsive Web Design: http://blog.teamtreehouse.com/modern-field-guide-responsive-web-design GitHub: James Williamson: Github for Web Designers: https://www.lynda.com/GitHub-tutorials/GitHub-Web-Designers/162276-2.htm

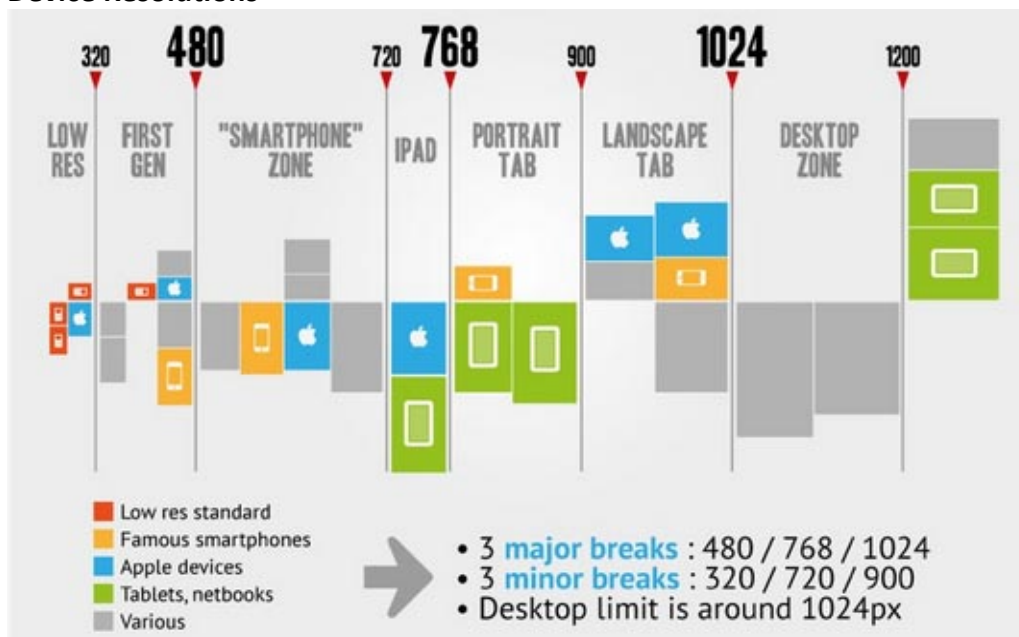
Today's Learning Goals

Responsive Web Design (RWD)

Intro Github

Chapter 12, HTML and CSS: Chapter 12, Building Responsive Webpages

Device Resolutions



Mobile strategies

1. One site for mobile, one site for tablet and one site for desktop (Nike)
2. One site for all -> Responsive Web Design (Boston Globe)

In this lecture, we will follow strategy 2: RWD!

Responsive Web Design (Ethan Marcotte, 2010)

1. Fluid Layout
2. Flexible Images and Media
3. Media Queries

RWD examples: <http://mediaqueri.es/>

Re 1: Fluid Layout (ch. 11 or ch. 12, p. 315)

- all width, margin and padding properties in % (or em's - not px)
- all fonts in em's (not px)
- see appendix 1

Re 2: Flexible Images and Media p. 312

- all images scaled in % (not px)
- different-sized images based on screen size (server-side solution)
- see appendix 2

Re 3: Media Queries p. 319

- use the Viewport meta-element
- apply breakpoints with media queries
- see appendix 3

3 ways:

1. @ import (slow)
2. Media attribute: <link href="global.css" media="screen" />
3. @media in stylesheet: @media screen {} (best practice)

Breakpoint syntax

```
/* 480px-600px ----- */
@media only screen and (min-width: 480px) and (max-width: 600px) {
  #header { background-color:#FF6; }
} /* gul */
```

Viewport p. 324

```
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

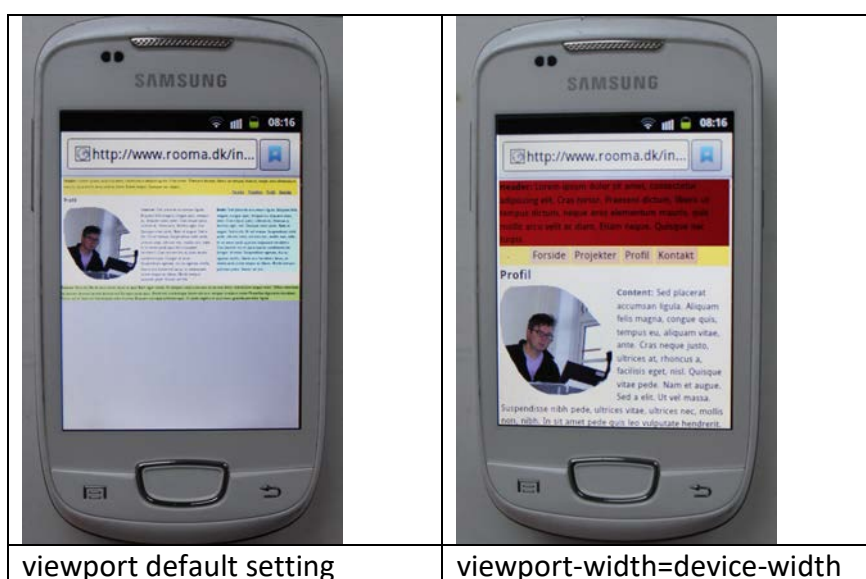


Fig. 1: Samsung Galaxy mini (GT-S5570)

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Two different approaches:

1. Baseline for all devices and then go from small screens to larger – Mobile First – Next lecture!
2. Build for desktop, and then use media queries for smaller screens - Today!

Task 1 – Responsive Web Design (follow me: RWD-Basic implemented in template from CSS Generator)
- copy: lecture5 -> lecture6 ...

Testing RWD

Mobile coding and testing tools p. 332

The Responsinator: <http://www.responsinator.com/> (runs localhost!)

Mobile Emulator: <http://www.mobilephoneemulator.com/>

Matt Kersley: <http://mattkersley.com/responsive/> (runs localhost!)

The Viewport Emulator: <http://www.viewportemulator.com/> (runs localhost!)

Web Developer (extension to the browser) also has tools to simulate different screen sizes.

GitHub: James Williamson: Github for Web Designers

Task 1: Sign-up for a Github account:

<https://www.lynda.com/GitHub-tutorials/Creating-account/162276/173433-4.html>

Use your school email ... Important!

Next lecture

Hand-in on Canvas: Assignment 4 (Deadline: *Before* startup of the lecture at 8:30 am)

Literature:

31.10	6 lessons	Mobile First (Luke Wroblewski: http://vimeo.com/38187066 (video 1:02:31)
8:30		Mobile First, Content First: http://www.youtube.com/watch?v=OHUa2_JXH9Y (video 12:21)
		Responsive Navigation: http://responsivenavigation.net/

Appendix

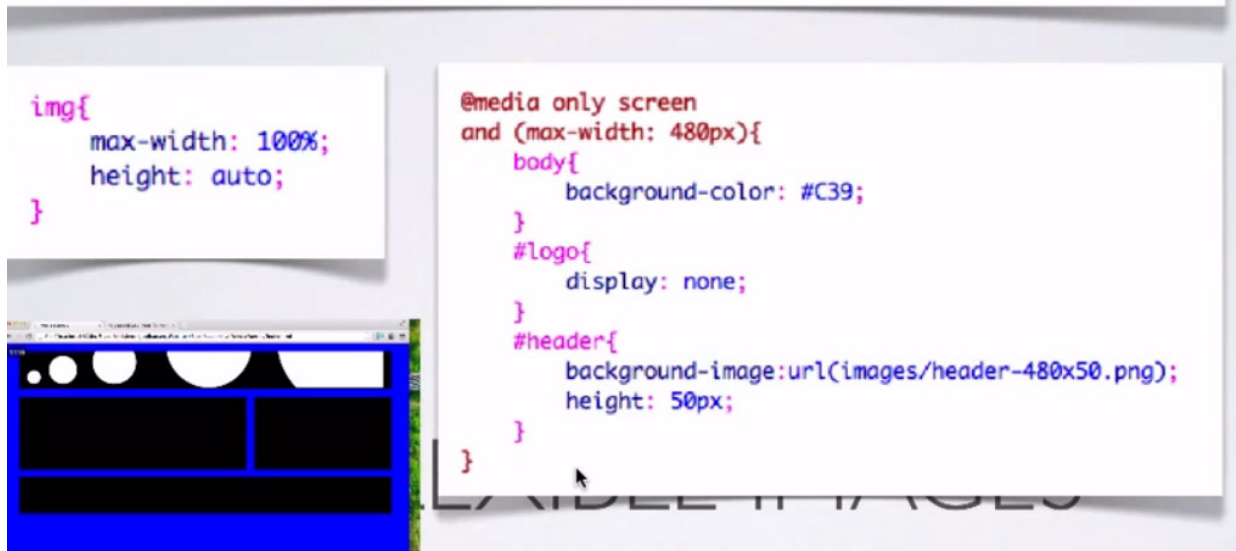
<pre>.wrapper{ width: 1024px; margin: 30px auto; } #header{ width: 1024px; background-color: #000; height: 150px; margin-bottom: 24px; } #content{ width: 600px; height: 200px; margin-right: 24px; background-color: #000; float: left; } #sidebar{ width: 400px; background-color: #000; height: 200px; float: left; margin-bottom: 24px; } #footer{ clear: both; width: 1024px; background-color: #000; height: 100px; }</pre>		<pre>.wrapper{ width: 98%; margin: 2% auto; } #header{ width: 100%; background-color: #000; height: 150px; margin-bottom: 2%; } #content{ width: 61%; height: 200px; margin-right: 2%; background-color: #000; float: left; } #sidebar{ width: 37%; background-color: #000; height: 200px; float: left; margin-bottom: 2%; } #footer{ clear: both; width: 100%; background-color: #000; height: 100px; }</pre>
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Appendix 1: Fixed Layout and Fluid Layout

```

<body>
  <div class="wrapper">
    <div id="header"></div>
    <div id="content"></div>
    <div id="sidebar"></div>
    <div id="footer"></div>
  </div>
  <script src="show_device_width.js"></script>
</body>
</html>

```



Appendix 2: Flexible Images



Appendix 3: Media Queries

All images are screen dumps from Niels Henrik's (head of the MDC) tutorial on RWD.

Literature: HTML and CSS Visual Quickstart Guide, chapter 12