

CIS 270 Review

- Basic Development Environment
 - Firefox with firebug and web developer toolbar.
 - Notepad++
 - Page Validation Service
- Flash vs. Silverlight vs. HTML 5 Canvas vs. Java FX
- Publishing to cisprod.clarion.edu
- Working with Images
 - http://www.pixlr.com/
 (general)
 - http://www4.flamingtext.com/# (logos)
 - http://www.rw-designer.com/online_icon_maker.php

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Multiple Device Sites

- Google White Paper October, 2013
 - http://ssl.gstatic.com/think/docs/multi-screen-consumer-whitepaper_research-studies.pdf
- Prepare to Go Mobile
 - Screen Resolution, Bandwidth, GPS, Camera
- Chose the right technology
 - Responsive Web Design, Dynamic Serving, Separate Mobile Site
- Optimize a User Experience
 - Layout screen width, font, touch-friendly, avoid mouse-overs
 - Content check media files, don't overload users or hide key actions
 - Speed image and file overloads
- Measure Your Success
 - Bounce Rates, Speed, Avg. Time on Page

Responsive Web Design

A clever design technique that uses a single HTML code base for all platforms. (<u>starbucks.com</u>)

Pros:	Cons:	Common Mistakes:
One URL for all content.	Holistic Approach Required.	Data bloat.
Flexible orientation.		
No redirects.		

- Responsive vs. Adaptive vs. Fluid Design
 - http://www.hyperarts.com/blog/what-is-responsive-adaptive-and-fluid-design-defining-terms-in-a-multi-device-world/

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Dynamic Serving

■ The web server detects the type of device a visitor is using, and then presents a custom page designed just for that device. (cnn.com)

Pros:	Cons:	Common Mistakes:
One URL for all content.	Content Forking.	Faulty Device
Custom User Experience.		Detection • User Confusion
Faster Loading.		

Dynamic serving is a resource-intensive solution for companies that make frequent changes to their website, and who often need to adjust display for one device.

Separate Mobile Site

- Create a mobile site that's separate from your original desktop site. Your system detects mobile visitors and redirects them to your mobile-optimized site.
 - Often using a sub-domain like m.yourname.com).
 - homedepot.com

Pros:	Cons:	Common Mistakes:
Customer User Experience.Easier Changes.	Multiple URLs.Content Forking.	 Faulty Redirects. Inconsistent User Experience

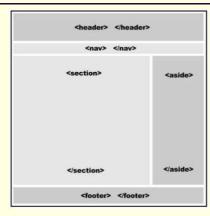
Some businesses may want to use a different vendor for mobile, or may want a mobile structure that simply wouldn't be possible with RWD.

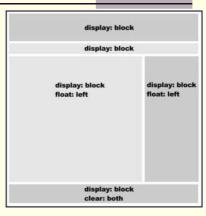
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Site Organization Organizing Code controller Folders for css, images, js, data l css Relative addressing MVC organization images | lib Search Engine Optimization **model** Navigation Examples l view CBSSports CNN **CUP** <u>jQuery</u> NetBeans

HTML Basics

HTML 5 and Box Layouts





■Backwards Compatibility with older browsers:

- <script src="http://html5shiv.googlecode.com/svn/trunk/html5.js"></script>
- header, section, footer, aside, nav, article, figure, figcaption, hgroup{
 display: block; }

<u>jQuery</u>

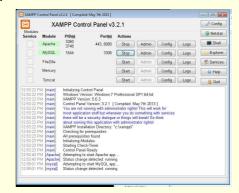
- A fast, concise JavaScript library that simplifies HTML document traversing, event handling, animating, cross-browser compatibility and Ajax interactions for rapid web development.
 - Version 1.x vs 2.x
 - Minified vs. Development
- Loading Content with jQuery

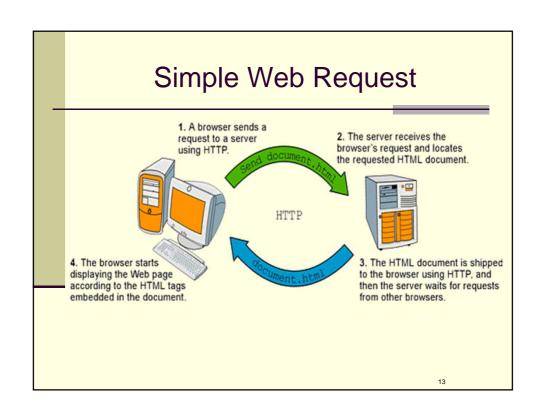
```
$(document).ready(function() {
   // Set the nav to the contents of HorizontalMenu.html
   $('#mainNav').load('HorizontalMenu.html');
});
```

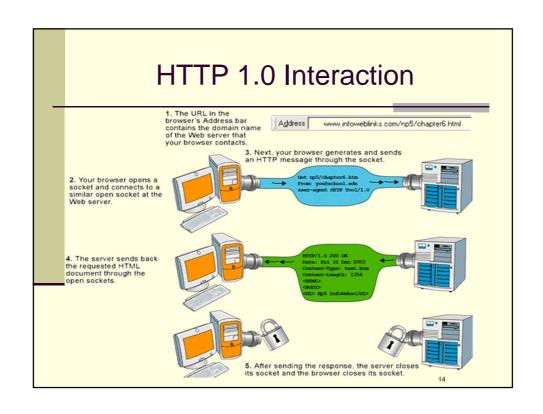
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XAMPP Install

- Download from http://sourceforge.net/projects/xampp/files
- Run the xampp-control.exe file.
- Start Apache
- Go to http://localhost/
- Default home page provided.
- Web Site Home Directory:
 - C:\xampp\htdocs
- NetBeans PHP Version
- http://netbeans.org/downloads







HTTP 1.1 Interaction

Client request

GET /index.html HTTP/1.1
Host: www.example.com

Server response

HTTP/1.1 200 OK

Date: Mon, 23 Jan 2014 22:38:34 GMT Server: Apache/1.3.3.7 (Linux) Last-Modified: Wed, 08 Jan 2014

ETag: "3f80f-1b6-3e1cb03b" Content-Type: text/html Content-Length: 131 Accept-Ranges: bytes Connection: close

HTTP Status Codes

- Informational 1XX
- Successful 2XX
- Redirection 3XX
- Client Error 4XX
- Server Error 5XX

<html>
<head>
<title>The Title</title>
</head>
<body>
Hello World.
</body>

</html>