Web Application Development

Orientation & HTML

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Syllabus / Software

- · Syllabus
 - https://bridgew.blackboard.com/
- · Visual Studio code
 - https://code.visualstudio.com/
- GIT
 - https://git-scm.com/
- · Create an account on Github
 - https://github.com/join
- Add your name to your Github account (profile) so I know who you are:
 - https://github.com/settings/profile

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Client-side Client-side Client-side Client-side Client-side Client-side How the Web Works HTML, CSS, JavaScript, JQuery and React Exam 1 Server-side development Node.js (Express – back-end framework) Working with Databases and Web server administration Exam 2 Group project (2 members) Milestones through the semester WireFrame prototyping and Progress presentation. Project Presentation and Demo

HTML5 Resources (Front-end)

- w3schools
 - http://www.w3schools.com/
- Dive into HTML5
 - http://diveintohtml5.info/
- HTML5 specification
 - https://html.spec.whatwg.org/multipage/
- Awesome HTML5
 - https://github.com/diegocard/awesome-html5
- More....

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Tim Berners-Lee

- The invention of the WWW is usually attributed to the British Tim Berners-Lee, who, along with the Belgian Robert Cailliau, published a proposal in 1990 for a hypertext system while both were working at CERN in Switzerland.
 - https://en.wikipedia.org/wiki/Tim_Berners-Lee



image source: http://www.csail.mit.edu/user

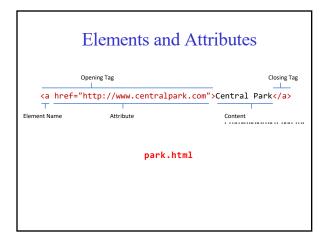
HTML Tags

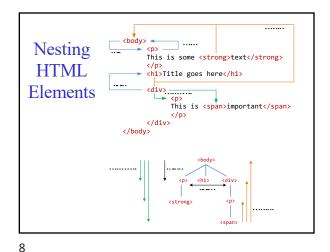
• http://www.w3schools.com/tags/

Exercise

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Which one is correct?

<h1>Share Your Travels<h1>
<h1>Share Your Travels</h1>
</h1>

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0 _ <!DOCTYPE html> <html> 0 <head lang="en"> <meta charset="utf-8"> 5 **3** <script src="js/html5shiv.js"></script> </head> <h1>Main heading goes here</h1> 4 </body> </html> link: Defines the relationship between a document and an external resource (most used to link to style sheets) rel: relationship script: defines a client-side script

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chody>
chi>Share Your Travels</hi>
chi>Share Your Travels</hi>
chi>New York - Central Park</hi>
p>Photo by Randy Connolly
cp>This photo of Conservatory Pond in
ca href-"http://www.centralpark.com/">
can ref-"http://www.centralpark.com/">
New York City was taken on October 22, 2811 with a
cstrong/Scanno EOS 380/strong) camera.
c/p>
cimg src="images/central-park.jpg" alt="central Park"/>
chi>Reviews</hi>
chi
Reviews</hi>
chi
Reviews</hi>
chi
Reviews</hi>
chi

Link to external site

(a href="http://www.centralpark.com">Central Park

Link to resource on external site

(a href="http://www.centralpark.com/logo.gif">Central Park

Link to another page on same site as this page

(a href="index.html">Home

Link to another place on the same page

(a href="#top">Go to Top of Document

href stands for Hypertext Reference

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Link to specific place on another page

<a href="productX.html#reviews">Reviews for product X</a>

Link to email

<a href="mailto://person@somewhere.com">Someone</a>

Link to javascript function

<a href="javascript://OpenAnnoyingPopup();">See This</a>

Link to telephone (automatically dials the number when user clicks on it using a smartphone browser)

<a href="tel:+18009220579">Call toll free (800) 922-0579</a>
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<img src="img/central-park.jpg"
 title="Central Park"
 alt="Central Park" />

src: Specifies the URL of the image to display

title: Text in the attribute will be displayed in a popup tooltip when user moves mouse over image

alt: Text in alt attribute provides a brief description of image's content for users who are unable to see it

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Character Entities

- https://www.w3schools.com/html/html_entities.asp
- These are special characters for symbols for which there is either no easy way to type in via a keyboard (such as the copyright symbol or accented characters) or which have a reserved meaning in HTML (for instance the "<" or ">" symbols).
- They can be used in an HTML document by using the entity name or the entity number.
- e.g., and ©

Semantic Markup

- Over the past decade, a strong and broad consensus has grown around the belief that HTML documents should only focus on the structure of the document.
- Information about how the content should look when it is displayed in the browser is best left to CSS (Cascading Style Sheets).
- That is, an HTML document should not describe how to visually present content, but only describe its content's structural semantics or meaning

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HTML5 Semantic Elements

- http://www.w3schools.com/html/html5_semantic_elements.asp
- One substantial problem with modern, pre-HTML5 semantic markup:
 - most complex web sites are absolutely packed solid with <div> elements.
 Unfortunately, all these <div> elements can make the resulting markup confusing and hard to modify.
- Examples of non-semantic elements:
 - <div> and Tells nothing about its content.
- Examples of semantic elements:
 - <form>, , and <article> Clearly defines its content.
- Developers typically try to bring some sense and order to the <div>
 chaos by using id or class names that provide some clue as to their
 meaning.

Examples

- index.html
- park.html
- · www.seikyung.com
- How to debug from web browser
 - https://developer.chrome.com/docs/devtools/

Next

- Lab0 and Assignment0
 - You will need your laptop!

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