Basic HTML

SENG 4640 Software Engineering for Web Apps Winter 2023

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Review

• HTML is a plain-text, human-readable language that is used for representing content on the Web

- •HTML specifies how to **structure** the data but not (necessarily) how to **display** it
- The browser chooses how to display the content

•<!DOCTYPE> specifies the version of HTML

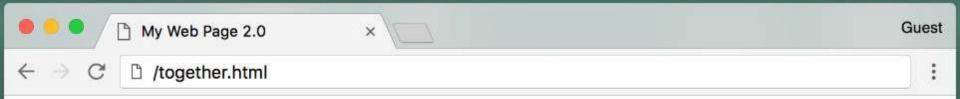
•<html> root of the entire document

•<head> section that provides the page title, meta information, includes other files, etc.

•<body> the actual content

•••	My First Web Page	Guest
$\leftrightarrow \rightarrow C$	🗅 /hello.html	:

Hello, World!



This is the most important header

This is a paragraph supporting the most important header.

This is a subheader

This is a paragraph supporting the subheader. Notice that the font size of the subheader is smaller than the size of the most important header.

Thought of the Day

Today's thought of the day: "Don't make excuses, make improvements"> -- Tyra Banks

Additional supporting text

Today we've learned about DOCTYPE declarations, head tags, body tags, heading tags, paragraph tags, & Inline vs. Block-level containers.

Important HTML Tags:

- Appears anywhere within the body to represent a paragraph of text expressing a single thought
- Usually displayed with vertical space before and after paragraph

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- Appears anywhere within the body to represent a paragraph of text expressing a single thought
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```
<!DOCTYPE html>
<head> . . . </head>
<body>
  (all web content goes here!)
   This is a paragraph within the p tag that expresses a single thought or
    idea. The paragraph should be surrounded with a vertical white space
    buffer both before and after the paragraph. 
</body>
</html>
```

- Remember, the HTML specifies the **structure** but not how the content will be **displayed**
- It is up to the browser to decide how to display the content

```
This is some text.
```

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This is some text.
```

This is some text. This is some more text. And here's a little bit more.

- Referred to as section heading tags
- HTML supports 6 heading tags

h3

h4

h6

- **h1** • <h1> used for most important titles (ex: title of entire web page) h2
 - <h2> used for next important subheader
 - <h6> used for least important subheader
- Magnitude of importance affects font size that will be h5 displayed
 - Can be used to divide content into readable subsections
 - Browser determines font and size depending on header magnitude

```
<body>
<h1>This is the most important header</h1>
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size of the subheader is smaller than the size of the most important
header. 
</body>
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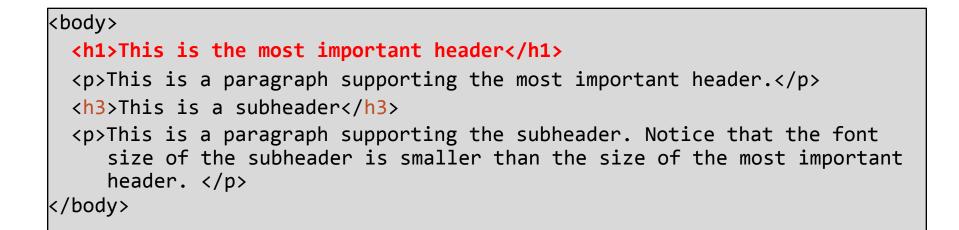
This is a subheader

```
<body>
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        size of the subheader is smaller than the size of the most important
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- **** indicates that the text should be **bold**
- <i> indicates that the text should be *italicized*

• Similar tags are and , respectively, which are meant to demonstrate that the text is "important"

- Both tags used to mark a break in content
 - <hr>
 <hr>
 Represents a more serious shift in content, visually separates content by inserting a visible line between preceding and subsequent content
 - **
>** Represents a single line break, inserts a blank line

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This is a paragraph
about how your browser works.
<hr>
 This is a paragraph about how
to set up your environment to
begin creating HTML documents.
<br>
 This is a paragraph about
important HTML tags that you
should know.
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This is a paragraph about important HTML tags that you should know.	This is a paragraph about important HTML tags that you should know.
SHOULD KHOW. Y/p/	

- Provides additional structure to web page
- Block-level container for organized content
- Often used for:
 - Page headers/footers
 - Menu or Navigation bar
 - Photo galleries
 - Ads or outside media

<div>

```
<h3> Thought of the Day </h3>
Today's thought of the day: "Don't
make excuses, make improvements"
-Tyra Banks
Additional supporting text
</div>
```

Important HTML Tags:

- Inline container for organized content
- Similar to div but different in the following ways;
 - Block-level elements (div) are designed to contain larger chunks of content designed to stand alone as a unit; always starts with a new line
 - Inline elements (span) designed to contain smaller pieces of content, usually within a larger block of content; does not start with new line

```
Today we've learned about
<span>DOCTYPE declarations</span>,
<span>head tags</span>,
<span> body tags</span>,
<span>heading tags</span>,
<span>paragraph tags</span>, and
<span>Inline vs. Block-level
containers</span>.
```

Important HTML Tags: <!-- Comments</pre>

- Text in the HTML that will not be rendered in the browser
- Often used for:
 - Explaining the HTML to or leaving notes for other programmers
 - Temporarily removing HTML content

```
<!-- This is a listing of some important people -->
<br>Eliana
<br>Swapneel
<!-- <br>Chris -->
<br>Lydia
```

HTML Entity	Appearance
	Non-breaking space; allows for extra white space between words

HTML Entity	Appearance
	Non-breaking space; allows for extra white space between words
<	<
>	>

HTML Entity	Appearance
	Non-breaking space; allows for extra white space between words
<	<
>	>
&	&

HTML Entity	Appearance
	Non-breaking space; allows for extra white space between words
<	<
>	>
&	&
©	©
®	R

```
k!DOCTYPE html>
khtm]>
   <head>
     <title>My Web Page 2.0</title>
      <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
      <meta name="description" content= "Learning about the most important web tags in html.">
      <meta name="keywords" content= "html, web development">
  </head>
  <body>
      <h1>This is the most important header</h1>
      \langle p \rangle This is a paragraph supporting the most important header.\langle p \rangle
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      <hr>>
      <div>
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        --Tyra Banks
        Additional supporting text
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          body tags</span>, <span>heading tags</span>, <span>paragraph tags</span>, &amp; <span>
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       </body>
 </html>
```

html	
<html></html>	
<head></head>	
<title>My Web</th><th>Page 2.0</title>	
-	<pre>quiv="Content-Type" content="text/html; charset=utf-8"></pre>
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<body></body>	
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<div></div>	
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       V DOUN
 </html>
```

html		
<pre>ptml></pre>		
<head></head>		
<pre> title My Web Page 2.0 </pre>		
<meta content="text/html; charset=utf-8" http-equiv="Content-Type"/>		
<meta content="Learning about the most important web tags in html." name="description"/>		
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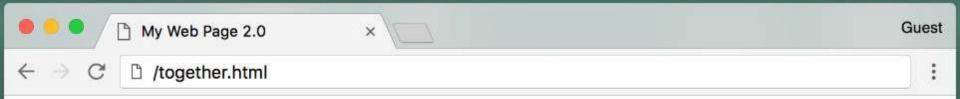
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Summary

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- •HTML specifies how to **structure** the data but not (necessarily) how to **display** it

•HTML uses tags to provide the structure