

HTML

Basic Text Markups

Topics

- Introduction of Basic Syntax
- Basic Text Markups
- Images
- Hypertext links
- Lists
- Tables
- Forms
- Audio
- Video
- Organization elements
- Time



Required software

An IDE

- Visual Studio Code
- Notepad++
- Sublime
- BBEdit
- Brackets
- Check more at https://en.wikipedia.org/wiki/Comparison_of_text_editors

A browser

- Edge
- Opera
- Safari
- Google Chrome
- FireFox



N.B: You do not need a Web server yet

Markup

- text-encoding system consisting of a set of symbols inserted in a text document to control its:
 - structure,
 - formatting, or
 - the relationship between its parts.
- Markup is often used to control the display of the document or to enrich its content to facilitate automated processing.
- A markup language is a set of rules governing what markup information may be included in a document and how it is combined with the content of the document in a way to facilitate use by humans and computer programs.



Tags/Symbols/Rules

```
<tagname option="value"/>
```

```
<tagname option="value">
    <tagname option="value">
        <tagname option="value"/>
        </tagname>
</tagname>
```



Format of HTML5 page

```
<!DOCTYPE html>
<html>
 <head ...>
  <title> ... </title>
  <meta ...>
 </head>
 <body>
 </body>
</html>
```



HTML5 tags

- http://www.w3schools.com/
- https://www.tutorialrepublic.com/htm
 l-reference/html5-tags.php
- gotapi.net
- xhtml.com



Hello World in HTML5

```
<!DOCTYPE html>
<!-- greet.html A trivial document -->
<html lang = "en">
 <head>
  <title> Our first document </title>
  <meta charset="utf-8"/>
 </head>
 <body>
  >
   Hello World with HTML!
  </body>
</html>
```



Load into a browser



Hello World with HTML!



Understand what is a markup language

```
<!DOCTYPE html>
<!-- greet.html A trivial document -->
<html lang = "en">
 <head>
       <title> Our first document </title>
       <meta charset="utf-8">
 </head>
 <body>
  >
   Hello World with HTML!
  </body>
</html>
```



With external CSS and JavaScript files

```
<!DOCTYPE html>
<!-- greet.html A trivial document -->
<html lang = "en">
 <head>
      <meta charset="utf-8">
      <title> Our first document </title>
      <link rel="stylesheet" href="style.css"/>
      <script src="script.js"></script>
 </head>
 <body>
 </body>
</html>
```



Basic Text Markups



Paragraph Elements

- Text is normally placed in paragraph elements
- breaks the current line and inserts a blank line

```
<!DOCTYPE html>
<!-- greet.html A trivial document -->
<html lang = "en" >
 <head>
      <title> Our first document </title>
 </head>
 <body>
  This is a paragraph 
   This is another one 
 </body>
</html>
```



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This is a paragraph

This is another one



Line breaks

- No closing tag!
- Breaks the current line, inserts No blank line

```
<!DOCTYPE html>
<!-- greet.html A trivial document -->
<html lang = "en" >
 <head> <title> Our first document </title>
 </head>
 <body>
   This is a paragraph
  This is the second paragraph. <br/> We continue the second
  paragraph.
 </body>
</html>
```



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This is a paragraph

This is the second paragraph.

We continue the second paragraph.



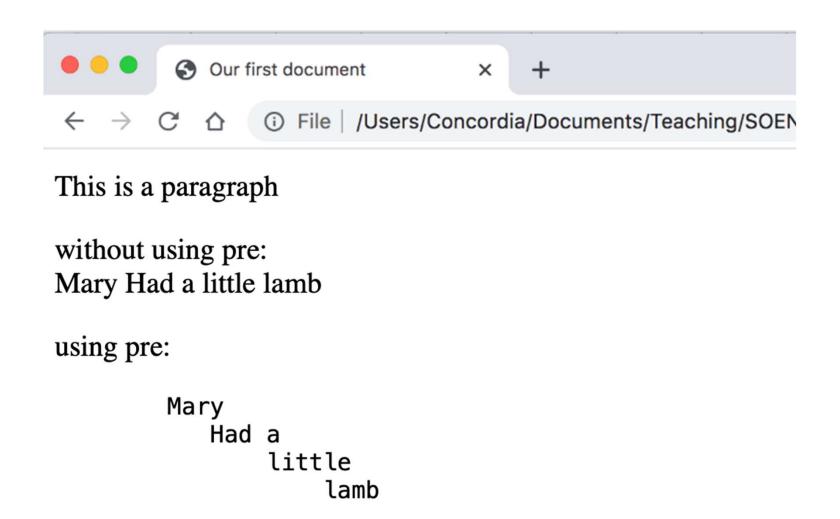
Preserving whitespace

- The text content of an element is displayed as it is entered

```
 without using pre:<br/>
  Mary
   Had a
      little
       lamb
using pre:<br/>
  Mary
   Had a
      little
       lamb
```



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Headings <h1> <h2> <h3> <h4> <h5> <h6>

- 1, 2, and 3 use font sizes that are larger than the default font size
- 4 uses the default size
- - 5 and 6 use smaller font sizes

```
<body>
    <h1> Aidan's Airplanes (h1) </h1>
    \langle h2 \rangle The best in used airplanes (h2) \langle h2 \rangle
    <h3> "We've got them by the hangarful" (h3)
    </h3>
    <h4> We're the guys to see for a good used
         airplane (h4) </h4>
    <h5> We offer great prices on great planes
          (h5) < /h5 >
    <h6> No returns, no quarantees, no refunds,
         all sales are final (h6) </h6>
 the default font for text, <b> the default bold font
for text</b>
</body>
```

Font styles and size

i> : bold
<i> : italic

: emphasis, most browsers use italic for
content

: strong tag, most browsers use bold <code>: for program code, often set in Courier



Blockquotes <blockquote>

- To set a block of text off from the normal flow and appearance of text
- Browsers often indent, and sometimes italicize

```
 Abraham Lincoln ... most famous speech was
delivered
             in Gettysburg, Pennsylvania, during
the Civil War. This speech began with
<blockquote>
 >
Fourscore and <em> seven years </em> ago <i>our
fathers</i> brought forth on this continent, a new
nation, <b>conceived</b> <strong>in
liberty</strong>, and dedicated to the proposition
that all men are created equal.
 </blockquote>
```



How to display special characters

- can be done with CSS
- Character Entities

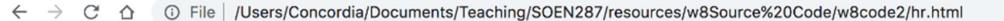
Char.	Entity	Meaning
&	&	Ampersand
<	<	Less than
>	>	Greater than
11	"	Double quote
•	'	Single quote
1/4	¼	One quarter
1/2	½	One half
3⁄4	¾	Three quarters
0	°	Degree
(space)		Non-breaking space



Horizontal rules <hr/>



Load into a browser



Greetings from your Webmaster!

This is the second paragraph.

We continue the second paragraph.



The <meta> element

(for search engines) Used to provide additional information about a document, with attributes, not content.

```
<meta name = "Title" content = "course outline">
<meta name = "Author" content = "Yuhong Yan">
<meta name = "Keywords" content = "cs, course, Web
programming, HTML, javascript">
```



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