

HTML Tutorial

Reference: www.w3schools.com/html

For more tutorial, check the reference site



HTML

show some properties for a text through some markups.

property: web page display property

Hyper Text Markup Language



Markup Language

- Annotating a document in a way that is distinguishable from the text.
 - E.g.) XML (eXtensible Markup Language)



Html Documents

- All HTML documents must start with a document type declaration: <!DOCTYPE html>.
- The HTML document itself begins with <html> and ends with </html>.
- The visible part of the HTML document is between <body> and </body>.



HTML Editing

- Web pages can be created and modified by using professional HTML editors.
- However, for learning HTML we recommend a simple text editor like Notepad (PC) or TextEdit (Mac).
- For syntax coloring, notepad+ will be another option for you.



Use Notepad

- Step 1: Open Notepad (PC)
 - Windows 8 or later: type notepad on search box in the bottom left of your screen.
 - Windows 7: Open the **Start Screen** (the window symbol at the bottom left on your screen). Type **Notepad**.
- Step 1: Open TextEdit (Mac)
 - Open Finder > Applications > TextEdit
 - Also change some preferences to get the application to save files correctly. In Preferences > Format > choose "Plain Text"
 - Then under "Open and Save", check the box that says "Ignore rich text commands in HTML files".
- Step 2: Then open a new document to place the code.



Practice #1

 Create a html document and show it with your web browser

```
<!DOCTYPE html>
<html>
<body>
<h1>My First Heading</h1>
My first paragraph.
</body>
</html>
```



HTML Elements

Starting from < and ending with >

```
Hello World!
<tag attribute1="value1"
attribute2="value2">Hello World!</tag>
```



HTML elements

- HTML elements use various tags to display contents.
- Elements start from <tag_name> and end with </tag_name>

Tag	Description
	This tag defines the document type and HTML version.
<html></html>	This tag encloses the complete HTML document and mainly comprises of document header which is represented by <head></head> and document body which is represented by <body></body> tags.
<head></head>	This tag represents the document's header which can keep other HTML tags like <title>, ke <title>, <le>, <</td></tr><tr><th><title></th><th>The <title> tag is used inside the <head> tag to mention the document title.</th></tr></tbody></table></title>



HTML tags more

Tag	Description
<h1></h1>	This tag represents the heading with biggest fonts. If you want smaller sized heading, then select <h2> <h6></h6></h2>
	This tag represents a paragraph.
	This tag insert a single line break.
<div></div>	This tag defines a block of a document and often used as a container for other HTML elements.
<pre><</pre>	This tag maintains preformatted text.
	This tag used as a container for some text.
<cente r></cente 	This tag centers contents in the display.

```
<!DOCTYPE html>
<html>
<body>
<h1>This is heading 1</h1>
This is some text.
This is another paragraph.
<hr>>
<h2>This is heading 2</h2>
This is some other
text.
<hr>>
</body>
</html>
```



Heading

• HTML headings are defined with the <h1> to <h6> tags.

```
<h1>This is heading 1</h1><h2>This is heading 2</h2><h3>This is heading 3</h3>
```



Paragraph

• HTML paragraphs are defined with the tag:

```
This is a paragraph.
This is another paragraph.
```



HTML link

• HTML links are defined with the <a> tag:

```
<a href="https://www.w3schools.com">This is a link</a>
```



Image

- HTML images are defined with the tag.
- The source file (src), alternative text (alt), width, and height are provided as attributes:

```
<img src="w3schools.jpg" alt="W3Sc
hools.com" width="104" height="142
">
```



HTML Attributes

• Attributes provide additional information about HTML elements.

```
<!DOCTYPE html>
<html lang="en-US">
<body>

This is a paragraph.

</body>
</html>
```



HTML styling

- Setting the style of an HTML element
 - Use background-color for background color
 - Use color for text colors
 - Use font-family for text fonts
 - Use font-size for text sizes
 - Use text-align for text alignment

```
<h1 style="color:blue;">This is a heading</h1>
<h1 style="font-family:verdana;">This is a heading</h1>
<h1 style="font-size:300%;">This is a heading</h1>
<h1 style="text-align:center;">Centered Heading</h1>
```



Practice #2

 Create a html document and show it with your web browser

```
<!DOCTYPE html>
<html>
<body>
This paragraph contains a
lot of lines in the source code, but the browser
ignores it.
This paragraph contains
                             a lot of
spaces in the source code, but the
browser ignores it.
This paragraph
             a lot of spaces in the source
contains
code, but the
               browser ignores it.
<img src="pulpitrock.jpg" alt="Mountain View"</pre>
width="500" height="377">
</body>
</html>
```



HTML text formatting

 Define special elements for defining text with a special meaning

E.G.) This text is bold

- Bold text
- Important text
- <i> Italic text
- Emphasized text
- <mark> Marked text
- <small> Small text
- Deleted text
- <ins> Inserted text
- <sub> Subscript text
- <sup> Superscript text



HTML Links

• Links allows users to click their way from page to page.

```
<a href="https://www.w3schools.com/html/">Visit our HTML
tutorial</a>
<a href="html_images.asp">HTML Images</a> <!-- local
file link -->
```



External Path Link

- You can link an external web pages through path link.
- By linking an URL, users can access any external web pages within a web page.
- Example
 - HTML tutorial



HTML image link

• Images are defined with tag.

```
<img src="pic_mountain.jpg" alt="Mountain
View" style="width:304px;height:228px;">
<img src="https://www.w3schools.com/images/w3schools_green.
jpg" alt="W3Schools.com">
```

- src is name of image file name. alt is alternative text when image is not displayed correctly.
- To use an image as a link, nest inside <a> tag.

```
<a href="default.asp">
     <img src="smiley.gif" alt="HTML
tutorial" style="width:42px;height:42px;border:0;">
</a>
```



HTML table

 Each table row is defined with
 tag and a table header is defined with . Table data is defined with .

```
>
 Firstname
 Lastname
 Age
>
 Jill
 Smith
 50
>
 Eve
 Jackson
 94
```



Practice #3

Create a table below and show it to your web browser

Name	Student ID	Midterm Exam	Final Exam	Sum
John	20181111	80	90	170
Jane	20181101	85	95	180
Jimmy	20181122	70	75	145
James	20183321	65	60	125
Emily	20182231	60	40	100



HTML Lists

Unordered list starts with

 tag and ordered list starts
 with tag.

```
Coffee
Tea
Milk

Coffee
Tea
Milk
```



Practice #4

• Create a list from the previous slide.

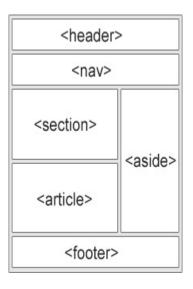


HTML Comments

- HTML Comment Tags
- <!-- Write your comments here -->
- Example
- <!-- This is a comment -->
 - This is a paragraph.
 - <!-- Remember to add more information here -->



HTML Layouts



- •<header> Defines a header for a d ocument or a section
- •<nav> Defines a container for navi
 gation links
- •<section> Defines a section in a d
 ocument
- •<article> Defines an independent self-contained article
- •<aside> Defines content aside fro m the content (like a sidebar)
- •<footer> Defines a footer for a do cument or a section
- details> Defines additional detail
- •<summary> Defines a heading for the <details> element



HTML Styles (CSS)

- CSS stands for Cascading Style Sheets.
- Describes how HTML elements are to be displayed on screen.
 - Inline: Use style attribute in HTML elements
 - Internal: using <style> element in the <head> section.
 - External: use external css file.



Inline CSS

• Use style attribute of an HTML element.

```
<h1 style="color:blue;">This is a Blue Heading</h1>
```



Internal CSS

Use <style> in <head> section.

```
<!DOCTYPE html>
<html>
<head>
<style>
h1 {
    color: blue;
    font-family: verdana;
    font-size: 300%;
    color: red;
    font-family: courier;
    font-size: 160%;
</style>
</head>
<body>
<h1>This is a heading</h1>
This is a paragraph.
</body>
</html>
```



External CSS

- Use external style sheet.
 - You can change the look of an entire web site by changing one file.

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="sty</pre>
les.css">
</head>
<body>
<h1>This is a heading</h1>
This is a paragraph.
</body>
</html>
```



HTML class attribute

 Class attribute makes it possible to define equal styles to a set of elements with giving the same name class.

```
<!DOCTYPE html>
<html>
<head>
<style>
div.cities {
    background-color: black;
    color: white;
    margin: 20px 0 20px 0;
    padding: 20px;
}
</style>
</head>
```



```
<div class="cities">
<h2>London</h2>
London is the capital of England. It is the most
populous city in the United Kingdom, with a metropolitan
area of over 13 million inhabitants.
</div>
<div class="cities">
<h2>Paris</h2>
Paris is the capital and most populous city of
France.
</div>
<div>
<h2>Tokyo</h2>
Tokyo is the capital of Japan, the center of the
Greater Tokyo Area,
and the most populous metropolitan area in the world.
</div>
</body>
             Information Communication Engineering
</html>
```



Practice #5

• Practice CSS creating a document from the example in the previous slides.



HTML Iframes

• Used to display a web page within a web page.

```
<iframe src="demo_iframe.htm" style="border:2px solid
grey;" height="200" width="300"></iframe>
```



HTML forms

• HTML form is used for collecting user intpus.

Radio Button

```
<form>
     <input type="radio" name="gender" value="male" checked> Male<br
>
     <input type="radio" name="gender" value="female"> Female<br>
          <input type="radio" name="gender" value="other"> Other
</form>
```



Submit button

```
<form action="/action_page.php">
  First name:<br>
    <input type="text" name="firstname" value="Mickey"><br>
    Last name:<br>
    <input type="text" name="lastname" value="Mouse"><br>
    <input type="submit" value="Submit">
    </form>
```

Action attribute

• Defines the action to be performed when the form is submitted.

Method attribute

Specifies HTTP method (get or post)

```
<form action="/action_page.php" method="get">
  <form action="/action_page.php" method="post">
```



Practice #6

• Create a html form document using the example in the previous slides.



Homework

- Capture your practice result and make a document that shows it.
- Write your resume with html format and capture your screen.
 - Your html file should be viewed from any web browser.
- You also have to submit your source code to eclass