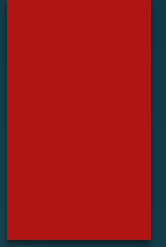


HTML

INFORMATION TECHNOLOGY INSTITUTE ITI – MENOUFIA BRANCH

Year	Version
1989	Tim Berners-Lee invented www
1991	Tim Berners-Lee invented HTML
1993	Dave Raggett drafted HTML+
1995	HTML Working Group defined HTML 2.0
1997	W3C Recommendation: HTML 3.2
1999	W3C Recommendation: HTML 4.01
2000	W3C Recommendation: XHTML 1.0
2008	WHATWG HTML5 First Public Draft
2012	<u>WHATWG HTML5 Living Standard</u>
2014	<u>W3C Recommendation: HTML5</u>
2016	W3C Candidate Recommendation: HTML 5.1
2017	<u>W3C Recommendation: HTML5.1 2nd Edition</u>
2017	<u>W3C Recommendation: HTML5.2</u>

What is HTML?



- ▶ HTML stands for Hyper Text Markup Language
- ▶ HTML describes the structure of a Web page
- ▶ HTML elements tell the browser how to display the content

Create your first webpage

- ▶ File extension (.html)
- ▶ Document structure

```
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

- <html>

element is the root element of an HTML page

- <head>

element contains meta information about the HTML page

- <title>

element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)

- <body>

element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

- <h1>

element defines a large heading

- <p>

element defines a paragraph

HTML <meta> Element

- ▶ UTF-8

```
<meta charset="UTF-8">
```

Define the character set used

- ▶ Keywords

```
<meta name="keywords" content="HTML, CSS, JavaScript">
```

Define keywords for search engines

- ▶ Description

```
<meta name="description" content="Free Web tutorials">
```

Define a description of your web page

- ▶ Author

```
<meta name="author" content="John Doe">
```

Define the author of a page

- ▶ Refresh

```
<meta http-equiv="refresh" content="30">
```

Refresh document every interval of time

- ▶ Viewport

Setting the viewport to make your website look good on all devices

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

HTML element

Double body tags

```
<tagname>
```

Content goes here...

```
</tagname>
```

```
<p>This is some text in a paragraph.</p>
```

Single body tags

```

```

```
<p>To force<br> line breaks<br> in a text,<br> use the br<br> element.</p>
```

HTML Headings

- ▶ HTML headings are defined with the `<h1>` to `<h6>` tags.
- ▶ `<h1>` defines the most important heading. `<h6>` defines the least important heading.

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


HTML Paragraphs

- ▶ HTML paragraphs are defined with the <p> tag.

```
<p>This is a paragraph.</p>
```

```
<p>This is another paragraph.</p>
```

HTML Links

- ▶ HTML links are defined with the <a> tag.

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

HTML Images

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

```

```

```

```

```
<map name="workmap">
```

```
  <area shape="rect" coords="34,44,270,350" alt="Computer" href="computer.htm">
```

```
  <area shape="rect" coords="290,172,333,250" alt="Phone" href="phone.htm">
```

```
  <area shape="circle" coords="337,300,44" alt="Coffee" href="coffee.htm">
```

```
</map>
```

HTML <div> Tag

- ▶ <div> tag defines a division or a section in an HTML document.
- ▶ <div> tag is used as a container for HTML elements - which is then styled with CSS or manipulated with JavaScript.

```
<div>  
  <h1>Welcome To Enfold Restraunt</h1>  
  <p>the best gourmet restraint </p>  
</div>
```

View HTML Source Code

```
<!DOCTYPE html>
<html>
  <head>
    <title>page title</title>
  </head>
  <body>
    <h1>first heading</h1>
    <p>first paragraph</p>
  </body>
</html>
```

Inspect an HTML Element

```
<!DOCTYPE html>
...<html> == $0
  ▶ <head>...</head>
  ▶ <body>...</body>
  </html>
```

HTML Attributes

- ▶ All HTML elements can have **attributes**
- ▶ Attributes provide **additional information** about elements
- ▶ Attributes are always specified in **the start tag**
- ▶ Attributes usually come in name/value pairs like: **name="value"**

src Attribute

```

```

Absolute URL

Relative URL

alt Attribute

```

```

 Girl with a jacket

Width and height Attributes

```

```

Title Attributes

```

```

href attribute

```
<a href="https://www.google.com">click here</a>
```

Target attribute

- ▶ `_self` : Default. Opens the document in the same window/tab as it was clicked
- ▶ `_blank` : Opens the document in a new window or tab
- ▶ `_parent` : Opens the document in the parent frame
- ▶ `_top` : Opens the document in the full body of the window

```
<a href="https://www.google.com" target="_blank">click here</a>
```


HTML Style Attribute

```
<tagname style="property:value;">
```



background-color:powderblue;



color:blue;



font-family:verdana;



font-size:20px;

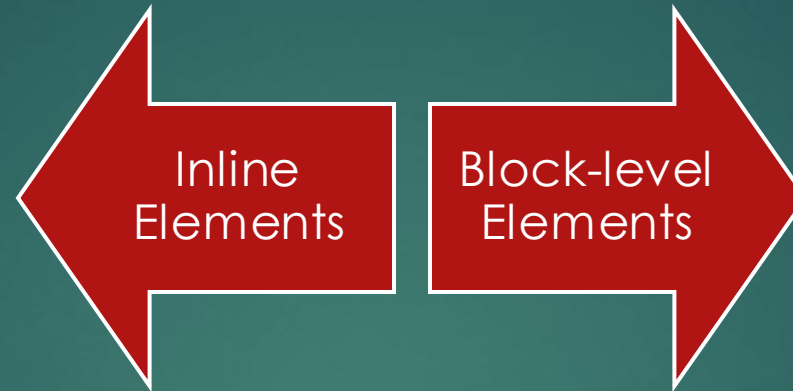


text-align:center;

HTML Formatting Elements

- ▶ `` - Bold text
- ▶ `` - Important text
- ▶ `<i>` - Italic text
- ▶ `` - Emphasized text
- ▶ `<mark>` - Marked text
- ▶ `<small>` - Smaller text
- ▶ `` - Deleted text
- ▶ `<ins>` - Inserted text
- ▶ `<sub>` - Subscript text
- ▶ `<sup>` - Superscript text
- ▶ `` - span text

HTML Block and Inline Elements



An inline element does not start on a new line.

An inline element only takes up as much width as necessary.

A block-level element always starts on a new line.

A block-level element always takes up the full width available

HTML Comment Tags

Single line comment

```
<!-- This is a comment -->
```

```
<p>This is a paragraph.</p>
```

```
<!-- Remember to add more information here -->
```

Multiline comment

```
<!-- Do not display this image at the moment  
  
-->
```

Unordered HTML List

- ▶ An unordered list starts with the `` tag. Each list item starts with the `` tag.
- ▶ The list items will be marked with bullets (small black circles) by default.

Ordered HTML List

- ▶ An ordered list starts with the `` tag. Each list item starts with the `` tag.
- ▶ The list items will be marked with numbers by default.

An unordered HTML list:

- Item
- Item
- Item
- Item

An ordered HTML list:

1. First item
2. Second item
3. Third item
4. Fourth item