KodeGo

Basic Structure of HTML

Overview

1. Recap
2. Quiz
3. Discuss and apply
   HTML Image elements
   Links, anchor tags, tables and border.

Objectives

1. Understand and apply the basic structure of HTML.
2. Explain HTML
3. Differentiate an HTML and a programming language
4. Identify the best IDE for the users
5. Identify the different types of programmers.

What is HTML?

HyperText Markup Language

HTML describes the structure of the pages. It uses elements and tags.

It is the most basic building block of the Web.

Is HTML a Programming Language?

The 10 Best IDE for Web Development

Best IDE Alternatives

Here’s a short-list of the best IDE alternatives to check out:

- Visual Studio Code
- Vim
- Sublime Text 3
- NotePad++
- Komodo Edit
- Brackets

Choosing the Right IDE

- It supports your operating system.
- It supports your programming language(S)
- Open source or commercial
- IDE features
- IDE performance

Different Types of Programmers

Sources: www.udemy.com

Different Types of Programmers

Source: www.udemy.com

Different Types of Programmers

Source: www.udemy.c

Different Types of Programmers

Source: www.udemy.com

HTML Structure / Anatomy of HTML

```html
<!DOCTYPE html>
<html>
<head>
    <title>My First HTML Website</title>
    <meta charset="UTF-8">
</head>
<body>
    Welcome to my first HTML Website!
</body>
</html>
```

Tags

Doctype
HTML Tag
Head Tag
Title Tag
Meta Tag
Body Tag

Attributes

Provides additional information about the html tags or elements

ELEMENT NAME

ATTRIBUTE NAME

ATTRIBUTE VALUE

```
<p text-align="right"> Text </p>
```

ATTRIBUTE

Attribute Name	Description
href	Hypertext Reference specifies the url (web address) for a link. <a **href=”about.html”**>About</a>
src	Source of media elements like images, iframes, Audio, Video. <img **src=”logo.png”**>
id	Set unique id of single element <h1 **id=“MyHeader"**> My First HTML Page </h1>
class	Group single or multiple elements. <p **class=“intro"**>This is an Introduction</p>
style	Specifies an inline style for an element <p **style="color:green"**>This is color green paragraph.</p>
alt	Specifies an alternative text. <img src="logo.png" alt=“Company Logo“>
title	Tooltip of an element. <img src="logo.png" title=“This is Company logo”>

Tag Name	Description
<h1> </h1>	A section heading level 1. Headings are up to <h6></h6>
	A paragraph tag
<a> </a>	Hyperlink, formerly anchor tag
<img>	An image tag
	Bold text
	Division, a block-level element for grouping
	An inline level grouping element
<!--- -->	Insert comment in the source code. A short description of code. Not displayed in the browser

HTML Image Elements

Example

HTML Attribute

```
<img src="dog.png">
```

```
alt="dog photo"
```

HTML Element

SEO - Search Engine Optimization

Learning Outcomes

1. Describe hyperlink
2. Differentiate hyperlink to hypertext.
3. Determine nesting elements
4. Apply hyperlink to your website.

Hyperlink

Alternatively known as a **link** and **web link**, a **hyperlink** is an icon, graphic, or text that links to another file or object.

Hyperlink VS Hypertext

```
<a href="https://www.wikihow.pet/Take-Care-of-a-Dog">Responsible Pet Owner</a>
```

Hyperlink

Hypertext

HTML Links and Anchor Tags

```
<a href="https://www.wikihow.pet/Take-Care-of-a-Dog">Responsible Pet Owner</a>
```

Nesting Elements

Elements can be placed within other elements.

Example

```
<p>I love  <a href="https://www.wikihow.pet/Take-Care-of-a-Dog">
    <strong>dogs</strong></p> </a>
```

Quiz Time

Click the link provided in the chat box.

Everyone has dreams. Success comes to those who act.
Sam Gupta
synapseworldwide.com

Everyone has dreams. Success comes to those who act.
Sam Gupta
synapseworldwide.com

Learning Outcomes

1. Identify how to add a bullet list into a website.
2. Determine the types of list.
3. Re-create the World's First Website.

HTML List

HTML

```
<h1>Top level heading: Maybe a page title</h1>

<p>A paragraph of text. Some information we wo
uld like to communicate to the user. This can
be as long or short as we would like.</p>

<ol>
  <li>Number one on the list</li>
  <li>Number two</li>
  <li>A third item</li>
</ol>
```

Web Page

Top level heading: Maybe a page title

A paragraph of text. Some information we would like to communicate to the user. This can be as long or short as we would like.

1. Number one on the list
2. Number two
3. A third item

KodeGo

HTML List

HTMl lists allow web developers to group a set of related items in lists.

Web Page

Top level heading: Maybe a page title

A paragraph of text. Some information we would like to communicate to the user. This can be as long or short as we would like.

1. Number one on the list
2. Number two
3. A third item

HTML LIST TAG - Ordered List

Type List	Description
List	Tag: <li> </li> Used to define each list item.

Ordered List	Tag: <ol> </ol>
	Sequential list. Use numbers, alphabets and Roman characters as list style.
	Example 1: Uppercase Alphabet List
	
	`<ol type="A">`
	`  <li>List 1</li>`
	`  <li>List 2</li>`
	`  <li>List 3</li>`
	`</ol>`
	
	Output:
	A. List 1
	B. List 2
	C. List 3
	
	Example 2: Roman Numeral List
	
	`<ol type="I">`
	`  <li>List 1</li>`
	`  <li>List 2</li>`
	`  <li>List 3</li>`
	`</ol>`
	
	Output:
	I. List 1
	II. List 2
	III. List 3

HTML LIST TAG - Unordered List

Type List	Description
Unordered List	Tag: <ul> </ul> Non sequential list. List with bullets. In HTML5, type attribute of **unordered list** is deprecated. Example 1: Bullet List `<ul > <li>List 1</li> <li>List 2</li> <li>List 3</li> </ul>` Output: • List 1 • List 2 • List 3 Example 2 : Square List `<ul type= “square" > <li>List 1</li> <li>List 2</li> <li>List 3</li> </ul>` Output: ▪ List 1 ▪ List 2 ▪ List 3

KodeGo

Unordered List

Non sequential list. List with bullets. In HTML5, type attribute of unordered list is deprecated.

UL Example 1: Bullet List

```
<ul>
    <li>Coffee</li>
    <li>Milk</li>
    <li>Tea</li>
</ul>
```

- Coffee
- Milk
- Tea

UL Example 2: Square List

```
<ul type="square">
    <li>Coffee</li>
    <li>Milk</li>
    <li>Tea</li>
</ul>
```

- Coffee
- Milk
- Tea

Ordered List

Sequential list. Use numbers, alphabets and Roman characters as list style.

OL Example 1: Uppercase Alphabet List

```
<ol type="A">
    <li>Coffee</li>
    <li>Milk</li>
    <li>Tea</li>
</ol>
```

1. Coffee
2. Milk
3. Tea

OL Example 2: Roman Numeral List

```
<ol type="I">
    <li>Coffee</li>
    <li>Milk</li>
    <li>Tea</li>
</ol>
```

I. Coffee
II. Milk
III. Tea

HTML LIST - Description List

Type List	Description

Description List	Tag: <dl>
	    <dt> Description Term </dt>
	    <dd>Description Data </dd>
	  </dl>
	List with **description term** and **description data**.
	
	Example:
	
	`<dl>`
	 `<dt> HTML</dt>`
	 `<dd>`
	  Language To create web page.
	 `</dd>`
	`</dl>`
	
	Output:
	
	HTML
	 Language To create web page.

KodeGo

Description List

List with description term and description data.

Syntax:

```
<dl>
    <dt>Description Term</dt>
    <dd>Description Data</dd>
</dl>
```

DL Example 1:

```
<dl>
    <dt>HTML</dt>
    <dd>Language to create a website. </dd>
</dl>
```

HTML
    Language To create web page.

Activity 1.2: Re-create The World's First Website

1. Create a new html file.
2. Apply what you have learned about HTML tags, attributes and lists.
3. Save your page as an Actitivy2_html file on your system.
4. **Present your version of World's First Website!**

KodeGo

The World's First Website

World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists , Policy , November's W3 news , Frequently Asked Questions .

What's out there?
Pointers to the world's online information, subjects , W3 servers, etc.
Help
on the browser you are using
Software Products
A list of W3 project components and their current state. (e.g. Line Mode ,X11 Viola , NeXTStep , Servers , Tools , Mail robot , Library)
Technical
Details of protocols, formats, program internals etc
Bibliography
Paper documentation on W3 and references.
People
A list of some people involved in the project.
History
A summary of the history of the project.
How can I help ?
If you would like to support the web..
Getting code
Getting the code by anonymous FTP , etc.

Source: http://info.cern.ch/hypertext/WWW/TheProject.html

HTML Code Challenge 1

HTML Table CODE CHALLENGE

Welcome to my Site!

Using HTML Table,

Put your name here
And add a short description about yourself.

Kae Soriano

Web Development Instructor - Kodego

KodeGo

HTML Table CODE CHALLENGE

```
<h1>Welcome to my Site!</h1>

<table>
    <tr>
        <td><img src="images/profile.jpg"
alt="myprofile"></td>
        <td>
          <h1><strong>Kae Soriano</strong></h1>
          <p> Web Development Instructor - Kodego</p>
          <p>I love teaching and milk tea</p>
        </td>
    </tr>
</table>
```

KodeGo

HTML Table CODE CHALLENGE

```
<h1>Welcome to my Site!</h1>

<table cellspacing=”30”>

  <tr>
    <td><img src="images/profile.jpg" alt="myprofile"></td>
    <td>
      <h1><strong>Kae Soriano</strong></h1>
      <p> Web Development Instructor - Kodego</p>
      <p>I love teaching and milk tea</p>
    </td>
  </tr>

</table>
```

Welcome to my Site!

Kae Soriano

Web Development Instructor - Kodego

I love teaching and milk tea

KodeGo

HTML Table CODE CHALLENGE

```
<h1>Welcome to my Site!</h1>

<table cellspacing=”30”>

  <tr>
    <td><img src="images/profile.jpg" alt="myprofile"></td>
    <td>
      <h1><strong>Kae Soriano</strong></h1>
      <p> Web Development Instructor - Kodego</p>
      <p>I love teaching and milk tea</p>
    </td>
  </tr>

</table>
```

Welcome to my Site!

Kae Soriano

Web Development Instructor - Kodego

I love teaching and milk tea

KodeGo

Hello!
Welcome to my Personal Portfolio

Kae Soriano

Web Development Instructor - Kodego

I love teaching and milk tea

You can also visit this blog

click here

My Interests

- Photography
- Graphics Design
- Blogging

2022-2023 Teacher at ABC School
2021-2022 Teacher at Creative School

My hobbies Contact Me

My Hobbies

1. Watching Movies

2. Blogging
3. Decorating

Back

My Contact Details

123 Eme St. Brgy. Uno Cavite City

09123456789

me@gmail.com

Back

Presentation of Output

HTML - My Portfolio

HTML Reference

https://www.w3schools.com/html/default.asp

https://developer.mozilla.org/en-US/docs/Learn/HTML

Wrap up

KodeGo

What have you learned today**?**

1. Introduction to Web Development
2. Introduction to Web Stacks
3. HTML Tags
4. HTML Attributes
5. HTML Lists

Thank you!

Learning Outcomes

1. Identify the uses of HTML Table
2. Determine the steps in creating a table
3. Create HTML table and table form

HTML Tables

HTML Tables are used to arrange data like text, images, links, other tables, etc. into rows and columns of cells.

Note: To add borders to the table you can use the **border** attribute.

To define the width of the table you can also use the **width** attribute.

HTML Tables

<table>

<thead>	<th>	Name	</th>	<th>	Age	</th>	<th>	Email	</th>	</thead>
<tr>	<td>	John	</td>	<td>	29	</td>		john@email.com		</tr>
<tr>	<td>	Jane	</td>	<td>	27	</td>		jane@email.com		</tr>

</table>

KodeGo

HTML Table Head

Table Head is used to group the **header content** of an HTML table.

Table head is uses the tag:
<thead> </thead>

HTML Table Row

Table Row is used to define a **row** inside the table.
The table row can contain **1** or more **<th>** or **<td>**.

Table Row is uses the tag:
<tr> </tr>

HTML Table Data

Table Data is used to define a **data cell** inside the table.

Table Data is uses the tag:
<td> </td>

<th>Name</th>	<th>Age</th>	<th>Email</th>
<td>John</td>	<td>29</td>	<td>john@email.com</td>
<td>Jane</td>	<td>27</td>	<td>jane@email.com</td>

KodeGo

HTML Tables

<table>

<thead>	<th>	Name	</th>	<th>	Age	</th>	<th>	Email	</th>	</thead>
<tr>	<td>	John	</td>	<td>	29	</td>		john@email.com		</tr>
<tr>	<td>	Jane	</td>	<td>	27	</td>		jane@email.com		</tr>

</table>

KodeGo

HTML Table Colspan

Colspan attribute is used to make a cell span for **more than 1 column**.

Syntax:
<td colspan="2">

Name	Contact Number	
Bill	12345	67890
Steve	13579	24680

HTML Table Rowspan

Rowspan attribute is used to make a cell span for **more than 1 row**.

Syntax:
<td rowspan="2">

NAME	Bill	Steve
Contact Number	12345	13579
	67890	24680

HTML Table Rowspan

Rowspan attribute is used to make a cell span for **more than 1 row**.

Syntax:
<td rowspan="2">

NAME	Bill	Steve
Contact Number	12345	13579
	67890	24680

HTML Table Example (Try to add a table in your webpage, no need to add color)

My Work Experience

2022 - 2023	Teacher 1	ABC School
2020 - 2022	Teacher 2	Dream School
2015 - 2020	Teacher 3	Kodego

KodeGo

HTML Table Example (Try to add a table in your webpage)

```
<table>
<tr>
<td>2022 - 2023</td>
<td>Teacher 1</td>
<td>ABC School</td>
</tr>

<tr>
<td>2020 - 2022</td>
<td>Teacher 2</td>
<td>Dream School</td>
</tr>
</table>
```

My Work Experience

2022 - 2023	Teacher 1	ABC School
2020 - 2022	Teacher 2	Dream School
2015 - 2020	Teacher 3	Kodego

KodeGo

Table with Emoji

Skills	Front-end Web Development	⭐⭐⭐⭐⭐	Back-end Web Development	⭐⭐⭐⭐⭐
	Photography	⭐⭐⭐⭐	Social Media Management	⭐⭐⭐

KodeGo

Table with Emoji

```
<table>
    <th rowspan="4"> Skills </th>
    <tr>
    <td>Front-end Web Development</td>
    <td>⭐⭐⭐⭐⭐</td>
    <td>Back-end Web Development</td>
    <td>⭐⭐⭐⭐⭐</td>
    </tr>

    <tr>
        <td> Photography</td>
        <td>⭐⭐⭐⭐</td>
        <td> Social Media
Management</td>
        <td>⭐⭐⭐</td>
    </tr>
    </table>
```

Skills	Front-end Web Development	⭐⭐⭐⭐⭐	Back-end Web Development	⭐⭐⭐⭐⭐
	Photography	⭐⭐⭐⭐	Social Media Management	⭐⭐⭐

KodeGo

Table with style

```
<td style="border: 2px red;">Name</td>
```

```
<td style="color: yellow; background-color: blue”;>Name</td>
```

```
<td rowspan="2" style="border: 3px violet; border-collapse:
collapse;">Age</td>
```

```
 <td> <b>Name</b></td>
 <td> <strong>Name</strong></td>
```

KodeGo

Code Challenge 2 - HTML Table

1

Name	Junjun	Joe
Contact Number	123	456

2

Name	Contact Number	
Hope	123	456
Faith	789	888

3

Year	2022-2023	Teacher at ABC School
	2021-2022	Teacher at Creative School

KodeGo

HTML Table Forms

HTML Forms are used to collect different kinds of user inputs, such as contact details like name, email address, phone numbers, or details like credit card information, etc.

HTML Table Form

```html
<form>
        <table>
          <tr>
            <td>Name:</td>
            <td><input type="text" name="name"></td>
          </tr>

          <tr>
            <td>Email:</td>
            <td><input type="email" name="email"></td>
          </tr>

          <tr>
            <td>Password:</td>
            <td><input type="password" name="password"></td>
          </tr>

        </table>
      </form>
```

Name:

Email:

Password:

Number:

Feedback:

Submit

KodeGo

HTML Table Form

```
<form>

        <tr>
          <td>Number:</td>
          <td><input type="number" name="number"></td>
        </tr>

        <tr>
          <td>Feedback:</td>
          <td><textarea name="message"></textarea></td>
        </tr>

        <tr>
          <td></td>
          <td><input type="submit" value="Submit"></td>
        </tr>
      </table>
    </form>
```

Name:

Email:

Password:

Number:

Feedback:

Submit

KodeGo

Thank you!