

Web Programming (1)

Lesson 02

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HTML Structure



Create a file: lecture2_1.html

```
<!DOCTYPE html>
```

```
<html>
```

Invisible Part

```
<head>
```

```
</head>
```

```
<body>
```

```
</body>
```

```
</html>
```

Visible Part


```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <title>Title of Page</title>
```

```
    </head>
```

```
    <body>
```

```
        <h1>Header 1</h1>
```

```
    </body>
```

```
</html>
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title of Page</title>
  </head>
  <body>
    <h1>Header 1</h1>
    <p> This is a Paragraph </p>
  </body>
</html>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Title of Page</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>Header 1</h1>
```

```
    <p> This is a Paragraph </p>
```

```
    <p> This is a <br/> Paragraph </p>
```

```
  </body>
```

```
</html>
```

- Attributes provide additional information about the contents of an element.
- They appear on the opening tag of the element and are made up of two parts: a **name** and a **value**, separated by an equals sign.

Attribute name Attribute value
<body bgcolor="AliceBlue">

The Background Color Attribute

For colors : https://www.w3schools.com/colors/colors_names.asp

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>This is the Title of the Page</title>
```

```
  </head>
```

```
  <body bgcolor="AliceBlue">
```

```
    <h1>Header 1 </h1>
```

```
    <p>This is a Paragraph</p>
```

```
    <p> This is a <br/> Paragraph </p>
```

```
  </body>
```

```
</html>
```



```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>This is the Title of the Page</title>
  </head>
  <body bgcolor="AliceBlue">
    <h1>Header 1 </h1>
    <h2>Header 2 </h2>
    <h3>Header 3 </h3>
    <h4>Header 4 </h4>
    <h5>Header 5 </h5>
    <h6>Header 6 </h6>
    <p>This is a Paragraph</p>
    <p> This is a <br/> Paragraph </p>
  </body>
</html>
```

- **<hr />** You can add a horizontal line between sections using the **<hr />** tag.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>This is the Title of the Page</title>
  </head>
  <body bgcolor="AliceBlue">
    <h1>Header 1 </h1>
    <h2>Header 2 </h2>
    <h3>Header 3 </h3>
    <h4>Header 4 </h4>
    <h5>Header 5 </h5>
    <h6>Header 6 </h6>
    <p>This is a Paragraph</p>
    <p> This is a <br/> Paragraph </p>
    <hr/>
    <p> This is another Paragraph </p>
  </body>
</html>
```

HTML Text



Tags used for Text

- `.....` make characters appear bold
- `<i>.....</i>` italic tag
- `<u>.....</u>` underline tag

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>This is the Title of the Page</title>
```

```
  </head>
```

```
  <body bgcolor="AliceBlue">
```

```
    <h1>Biography</h1>
```

```
    <p>My name in <u> Tom </u>. I am studying <b>web programming</b>  
    at the <i>Kyoto College of Graduate Studies for Informatics </i> </p>
```

```
  </body>
```

```
</html>
```


More Tags used for Text

- `^{.....}`superscript

Superscript is used for mathematical concepts like raising a number to a power of 2.

2^3 is 8. The cube of 2 is 8.

`<p>2³ is 8. The cube of 2 is 8 </p>`

- `_{.....}`subscript

Subscript is commonly used with foot notes or chemical formulas such as H₂O.

H₂O

`<p>H₂O is the chemical name for Water </p>`

Exercise

I am from Nepal

I am from Nepal

I am from Nepal

I am from Nepal

2^3 is 8. The cube of 2 is 8

H₂O is the chemical name for Water.

Do it by yourself. Save it as
[lecture2_3.html](#)

First find out which tags are used?

Resources :Text Formatting

- https://www.w3schools.com/html/html_formatting.asp
- <https://developer.mozilla.org/en-US/docs/Web/HTML/Element>

● White space collapsing:

- When the browser comes across two or more spaces next to each other, it only displays one space. Similarly if it comes across a line break, it treats that as a single space too. This is known as White space collapsing.

- Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014

- Example: add the following part to lecture 2_2.html.

```
<p>Kyoto is <beautiful> city</p>
```

```
<p>Kyoto is a      &nbsp; &nbsp; &nbsp; beautiful city</p>
```

```
<p>Kyoto is a beautiful  
city</p>
```

Kyoto is a beautiful city

Kyoto is a beautiful city

Kyoto is a beautiful city

Abbreviation

- `<abbr>.....</abbr>`

- If you use an abbreviation or an acronym, then the `<abbr>` element can be used.

- Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014

- Example: Add the following part to lecture2_2.html

```
<p><abbr title="The Kyoto College of Graduate Studies for Informatics">KCGI</abbr>  
has four courses.</p>
```

KCGI has four courses.

The Kyoto College of Graduate Studies for Informatics
KCGI has four courses.

Address

- `<address>.....</address>`

- It has a specific use: to contain contact details for the author of the page.
- Browsers often display the content of the `<address>` element in italics.

- Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014

- Example: Add the following part to lecture2_2.html

`<address>`

`<p> The Kyoto College of Graduate Studies for Informatics

Hyakumanben Campus
Kyoto, Japan</p>`

`</address>`

Add the following part to lecture2_2.html

```
<p>I am from <strong> Nepal </strong> </p>
```

● `.....`

- Indicates that its content has strong importance.
- By default, browsers will show the contents of a `` element in bold.

● Reference: JON DUCKETT, HTML&CSS design and build websites, JOHN WILEY & SONS, INC., 2014

● `<s>.....</s>`

- Indicates something that is no longer accurate or relevant (but that should not be deleted).

```
<p>Laptop computer:</p>
```

```
<p><s>Was $995</s></p>
```

```
<p>Now is only $375</p>
```

Laptop computer:

~~Was \$995~~

Now is only \$375

Add the following part to lecture2_2.html

<blockquote> quote for entire paragraph

<q> quote

<blockquote>

For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.

</blockquote>

Try the same with <q> instead of <blockquote>

<ins> show content that is inserted to documents

**** show content that is deleted in document

<p>My favorite color is ****blue**** **<ins>**red**</ins>**!**</p>**

Exercise

- `<code>`
- `<cite>`
- ``
- `<details>`
- `<summary>`
- `<label>`
- `<meter>`
- `<samp>`
- `<wbr>`

Documentation: <https://www.w3schools.com/tags/default.asp>

Cite Tag

The <cite> tag defines the title of a creative work (e.g. a book, a poem, a song, a movie, a painting, a sculpture, etc.).

<p><cite>The Lord of the Rings</cite> by J. R. R. Tolkien.</p>

[illegible]

Wbr Tag

- When a word is too long, the browser might break it at the wrong place. You can use the `<wbr>` element to add word break opportunities.

Try this code. Resize the browser and see the differences for each paragraph

```
<p> This is a longestwordintheinternet that you will ever see.</p>
```

```
<p> This is a longestwordinthe<wbr>internet that you will ever see.</p>
```

```
<p> This is a longestwordin<wbr>the<wbr>internet that you will ever see.</p>
```

Assignment 1

- Create a biography page using the HTML text formatting tags studied in the class.