

## Web Design & Development I IDD103

## Introduction to HTML5

## HTML



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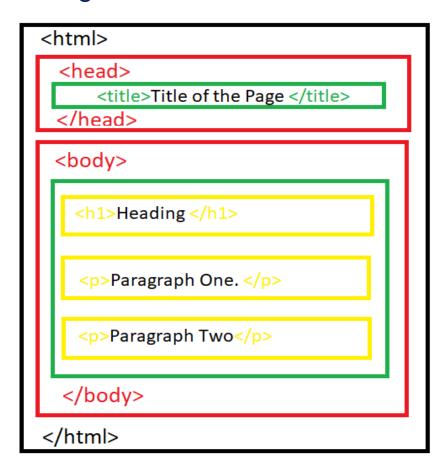
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#### What is HTML5?

- HTML stands for Hyper Text Markup Language.
- It is used to design web pages using markup language.
- Hypertext defines the link between the web pages.
- Markup language is used to define the text document within a tag which defines the structure of web pages.
- HTML5 means that it is the fifth and current version of HTML.

## **HTML** Page Structure



- The HTML structure is composed of two parts.
  - o A declarative header section.
  - A body, which contains the document's actual content.
- The content inside the **<title>** elements will be shown in the browser's title bar.
- The content inside the **<body>** section will be displayed in the browser.



#### **HTML Comments**

- HTML comments are not displayed in the browser.
- Comments help document HTML source code.
- It can also hide more than one line, everything between the <!-- and the --> will be hidden from the display.
- Example:

<!--This is Comment-->

## The <!DOCTYPE> Declaration

- All HTML documents must start with a document type declaration: <!DOCTYPE</li>
   html>
- The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.
- It must only appear once, at the top of the page (before any HTML tags).
- The <!DOCTYPE> declaration for HTML5 is:

<!DOCTYPE html>

## **HTML** Headings

- A HTML heading is defined as a title or a subtitle which displays on the webpage.
- Six different HTML headings are defined with the <h1> to <h6> tags.
- h1 is the largest heading tag and h6 is the smallest one. So h1 is used for most important heading and h6 is used for least important.

**Example** Output



## Heading 1

## **Heading 2**

**Heading 3** 

**Heading 4** 

**Heading 5** 

Heading 6

## **HTML** Paragraphs

- The HTML element defines a paragraph.
- A paragraph always starts on a new line, and browsers automatically add some white space (a margin) before and after a paragraph.
- Example:

#### Output

The HTML paragraph one

A paragraph always start on a new line



## HTML Links - Hyperlinks

- A link from a hypertext document to another location, activated by clicking on a highlighted word or image.
- When you move the mouse over a link, the mouse arrow will turn into a little hand.
- The HTML <a> element defines a link.
- Syntax:

```
<a href=""></a>
```

Example:

```
<a href="KCC_about.html">About</a>
```

- o href attribute indicates the link's destination.
- The link text is the part that will be visible to the reader.

#### HTML Links - target attribute

Example:

```
<a href="KCC_about.html" target="_blank">About</a>
```

The target attribute specifies where to open the linked document.

Target Attributes	Description
_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

#### Absolute URL

- In Absolute URL a full web address will be in the href attribute.
- Example:



<a href="https://www.gcit.edu.bt/">GCIT</a>

#### Relative URL

- A local link to a page within the same website
- Example:

```
<a href="KCC_about.html">About</a>
```

## HTML Image

- The HTML <img> tag is used to embed an image in a web page.
- Images are not technically inserted into a web page but linked to web pages.
- Example:

```
<img src="imgCoffee.png" alt="ImageOfCoffee">
```

- src attributes specifies the path to the image
- alt attributes specifies an alternate text for the image

#### Image as a link

- Image as a link means putting <img> tag inside the <a> tag.
- Example:

#### Links to Email Address

- Use mailto inside href attributes to let them send a new email or creates links that opens the user's email
- Example:

```
<a href="mailto:KCC@example.com">KCC@example.com</a>
```



### **HTML Lists**

- HTML lists allow web developers to group a set of related items in lists.
- There are Three type of list are there
  - Unordered List
  - Ordered List
  - Description List

#### **Unordered List**

- An unordered list starts with the
- Each list item starts with the tag embedded inside tag.

# <u1> List Item One List Item Two List Item Three

Example

#### Output

- List Item One
- List Item Two
- List Item Three

#### **Ordered List**

- An ordered list starts with the tag.
- Each list item starts with the <Ii> tag embedded inside tag.

#### Example

#### Output

```
     List Item One
     List Item Two
     List Item Three
```

- 1. List Item One
- 2. List Item Two
- 3. List Item Three

#### **Description List**

- A description list is a list of terms, with a description of each term.
  - The <dl> tag defines the description list
  - The <dt> tag defines the term
  - o The <dd> tag describes each term

Example

Output



**GCIT** 

Location: Mongar

Sherubtse

Location: Tashigang

## HTML <hr>> tag

 The <hr> tag defines a thematic break to display as horizontal rule used to separate content in an HTML page

#### Example

## defines a thematic break to display as horizontal

<hr>

rule

it is used to separate content in an HTML page

#### Output

defines a thematic break to display as horizontal ru

it is used to separate content in an HTML page

#### HTML tag

- The tag defines preformatted text
- Text in a element is displayed in a fixed-width font, and the text preserves
   both spaces and line breaks.
- The text will be displayed exactly as written in the HTML source code.

#### Example

#### Output

Text in a pre element is displayed in a fixed-width font, and it preserves both space and line breaks



#### **HTML** figure and figcaption

- The <figure> tag specifies self-contained content, like illustrations, diagrams, photos, code listings, etc.
- The **<figcaption>** element is used to add a caption for the **<figure>** element.

#### Example

#### Output



Fig.1 - Coffe

## HTML <div> tag

- The <div> tag defines a division or a section in an HTML document.
- The <div> tag is used as a container for HTML elements which is then styled with CSS or manipulated with JavaScript.
- The <div> tag is easily styled by using the class or id attribute.
- Any sort of content can be put inside the <div> tag!

#####Thankyou#####