

# Introduction to Web Designing

May 2020



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# What is HTML?

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages.
- HTML elements are represented by tags
- An HTML file must have an **htm** or **html** file extension



# HTML Document Structure

```
<!doctype html>
<html>
  <head>
    <title> ...document title... </title>
  </head>

  <body>
    ...your page content...
  </body>
</html>
```



# Page Components

## **<!DOCTYPE>**

Declaration of version of HTML

## **<html>...</html>**

Container for the document

## **<head>...</head>**

**<title>** Title of page **</title>**

## **<body>...</body>**

Content of page

```
<html>
  <head>
    <title> ...document title...
  </title>
</head>
<body>
  ...your page content...
</body>
</html>
```



# HTML Document Parts

Two subparts:

Head

Enclosed within `<head>` and `</head>`

Within the head, more tags can be used to specify title of the page, meta-information, etc.

Body

Enclosed within `<body>` and `</body>`

Within the body, content is to be displayed

Other tags can be embedded in the body



# HTML Document Parts

Paragraph : `<p>... </p>`

Inserts a line space before and after a paragraph

See example

Headings : `<h1>` to `<h6>`

Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6



# Image Source Tag

- Empty tag – no closing tag
- Components of Img tag

```

```

- **url** = points to location of the image file
- alt = describes image for screen readers



# Link Tag

- Link
  - Anchor tag `<a>...</a>`
  - 2 kinds
    - Link to page in same folder
    - Link to page in different folder





# Example of Anchor Tag

**Syntax:** `<a href="url">link text</a>`

**Example:** `<a href="https://www.google.com/">Google</a>`

<b>address</b>	<b>text in page</b>
----------------	---------------------

- 2 components
  - Address
  - Text or description – this is what you see on the page



# Target

**Syntax:** `<a href="url">link text</a>`

**Example:** `<a href="https://www.google.com/" target="_self">Google</a>`  
address text in page

- Target
  - \_self
  - \_blank



# Text Formatting

<p><b>This text is bold</b></p>

**This text is bold**

<p><i>This text is italic</i></p>

*This text is italic*

<p><em>This text is emphasized.</em></p>

*This text is emphasized.*

<p>She is reading a <mark>story</mark></p>

She is reading a story

<p>She is reading a <del>story</del></p>

She is reading a story

<p>She is reading a <ins>story</ins></p>

She is reading a story

<p>H<sub>2</sub>O</p>

H<sub>2</sub>O

<p>3<sup>rd</sup></p>

3<sup>rd</sup>



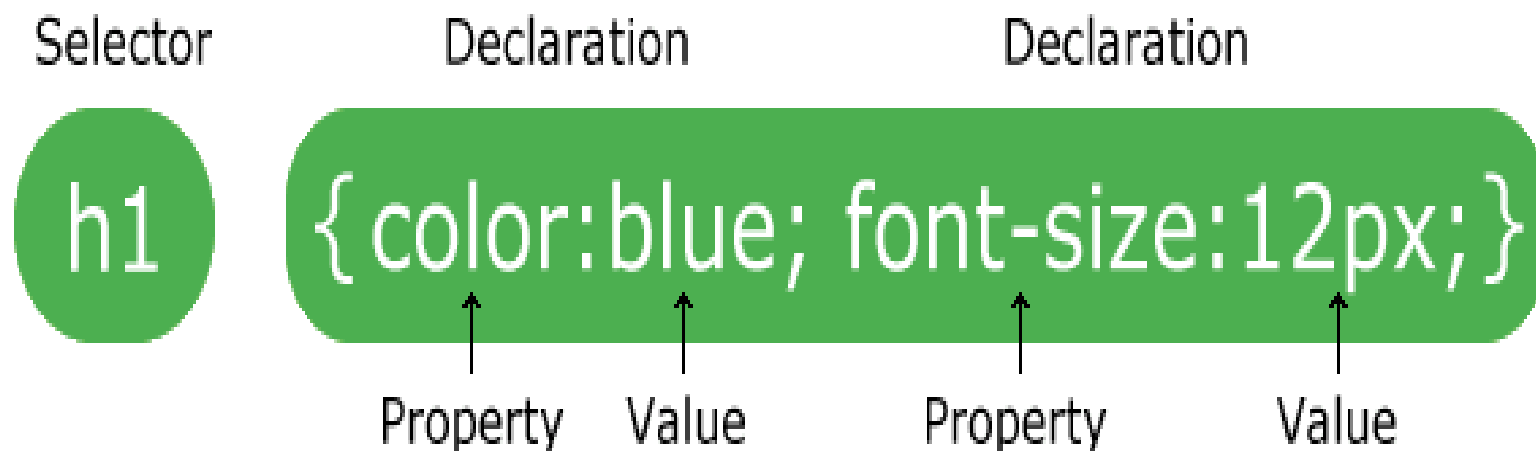
# CSS Introduction

- ❑ **CSS** stands for **Cascading Style Sheets**.
- ❑ CSS describes **how HTML elements are to be displayed on screen, paper, or in other media**.
- ❑ **CSS saves a lot of work**. It can control the layout of multiple web pages all at once.



## CSS Syntax

A CSS rule-set consists of a selector and a declaration block:





# Three Ways to Insert CSS

- ☐ Inline style
- ☐ Internal style sheet
- ☐ External style sheet



# Inline style

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

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

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

```
</body>
```

```
</html>
```



# Internal style

```
<!DOCTYPE html>
<html>
<head>
<style>
h1 {
color: maroon;
}
</style>
</head>

<body>
<h1>This is a heading</h1>
<p>This is a paragraph.</p>
</body>
</html>
```





# External style

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" type="text/css" href="mystyle.css">
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```



# mystyle.css

```
h1 {  
    background-color: green;  
  
}
```



# Using Tagname

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
  text-align: center;
  color: red;
}
</style>
</head>
<body>
<p>Every paragraph will be affected by the style.</p>
</body>
</html>
```



# Using Id Name

```
<!DOCTYPE html>
<html>
<head>
<style>
#para1 {
  text-align: center;
  color: red;
}
</style>
</head>
<body>
<p id="para1">Hello World!</p>
</body>
</html>
```



# Using Class Name

```
<!DOCTYPE html>
<html>
<head>
<style>
.center {
  text-align: center;
  color: red;
}
</style>
</head>
<body>
<p class="center">Red and center-aligned paragraph.</p>
</body>
</html>
```



# JavaScript Display Possibilities

1. using innerHTML
2. document.write()
3. window.alert()
4. console.log()