

Introduction to HTML

- ▶ HTML stands for HyperText Markup Language.
- ▶ It is the standard language used to create and design web pages.
- ▶ HTML documents are made up of elements defined by tags, such as <html>, <head>, <body>, <div>, <p>, etc.

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
</head>
<body>
  <h1>This is a Heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

Structure of an HTML Document

- ▶ **Doctype Declaration:** The document begins with `<!DOCTYPE html>`, which is an instruction to the web browser about what version of HTML the page is written in.
- ▶ **HTML Element:** Following the doctype, the `<html>` element wraps all the content of the entire page and can include a `lang` attribute to specify the language.
- ▶ **Head and Body:** Inside the `<html>` tag, there are two main sections:
 - ▶ The `<head>` contains meta-information, links to stylesheets, and scripts.
 - ▶ The `<body>` includes the content of the page such as text, images, and other media.

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width initial-scale=1">
```

Basic HTML Tags and Their Uses

- ▶ `<html>`: This tag represents the root of an HTML document. It is the container for all other HTML elements (except for the `<!DOCTYPE>` tag).
- ▶ `<head>`: Contains meta-information about the document, such as its title and link to CSS stylesheets.

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

- ▶ `<body>`: Contains the content of an HTML document, such as text, images, links, etc.

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

Creating Content with HTML

- ▶ **Use of Tags:** HTML documents are composed of elements, each defined by tags. A tag, generally, comes in pairs: an opening tag and a closing tag. For example, `<p>` is the opening tag for a paragraph, and `</p>` is the closing tag.
- ▶ **Adding Text:** The primary purpose of HTML is to display text content. To add text, simply type it between the opening and closing tags of an element. For example:

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

- ▶ **Incorporating Multimedia:** HTML allows embedding images, audio, and video. For images, the `` tag is used with the `src` attribute specifying the path to the image file. For example:

```

```

Linking Pages and Resources in HTML

- ▶ **Anchor Tag (<a>):** Used to create hyperlinks to other web pages or resources. Syntax: `Link Text`
- ▶ **Attributes:** Commonly used attributes include `href` (URL of the link), `target` (defines where to open the linked document), and `rel` (specifies the relationship between the current and linked documents).
- ▶ **Relative vs Absolute URLs:** Use relative URLs to link to internal resources within the same website (e.g., `About Us`) and absolute URLs for external resources (e.g., `Visit Example`).