

HTML Notes for Students

Part 1: HTML Basics

What is HTML?

- **HTML** stands for **HyperText Markup Language**.
- It is the **standard language** used to create web pages.
- It describes the **structure** of a web page using tags.
- A browser (like Chrome, Edge, Firefox) reads the HTML file and displays it as a web page.

Why Use HTML?

- Provides the **skeleton** of web pages.
- Easy to learn and beginner friendly.
- Foundation for **web development** (works with CSS & JavaScript).
- Supports multimedia (images, videos, audio) and hyperlinks.

Who Developed HTML?

HTML was **created by Tim Berners-Lee** in **1991**. He is also called the *Father of the World Wide Web*.

First Website

The **first website** was created in **1991** at **CERN (Switzerland)** by Tim Berners-Lee. URL: <http://info.cern.ch>

Structure of an HTML Page

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    Page Content
  </body>
```

</html>

<html> → Root element of an HTML page. Everything inside this tag is part of the HTML document.

<head> → Contains metadata about the page (not shown directly on the webpage).
Example: page title, CSS, JavaScript, SEO information, etc.

<title> → Sets the title of the webpage. This is displayed on the **browser tab**.

<body> → Contains all the visible content of the webpage such as text, images, links, videos, etc.

Part 2: Explanation of Your Tags

Headings

- <h1> to <h6> → Headings from largest to smallest.
- <h7> ❌ → Not valid in HTML.

Paragraphs & Text Formatting

- <p> → Paragraph
- → Bold (visual only)
- → Bold (semantic/important)
- <i> → Italic (visual only)
- → Italic (emphasis/semantic)
- <u> → Underline
- <ins> → Inserted/underlined text
- <mark> → Highlighted text
- <small> → Small text
- <q> → Quotation (with quotes)

- `<code>` → Inline code
- `<pre>` → Preformatted text
- `<sup>` → Superscript (x^2)
- `<sub>` → Subscript (H_2O)
- `<hr>` → Horizontal line
- `
` → Line break

Special Formatting

`<` → Displays <

`©` → Displays ©

` ` → Adds extra space

❌ Deprecated Tags:

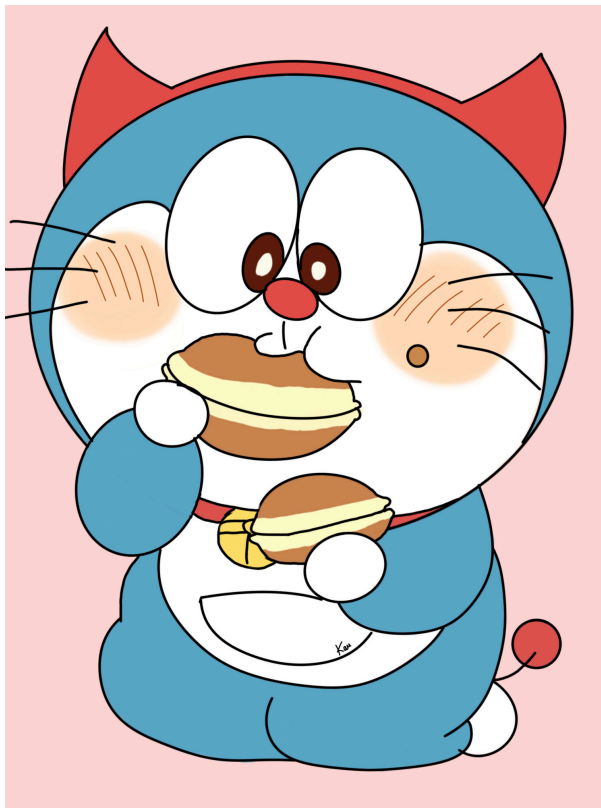
- `<center>` → Use CSS (`text-align: center;`)
- `` → Use CSS for font styling
- `<marquee>` → Use CSS animations

Other Elements

- `<address>` → Contact/address info
- `<bdo dir="rtl">` → Reverses text direction
- `<details>` + `<summary>` → Collapsible section
- `<cite>` → Cite author/book/website
- `<figure>` + `<figcaption>` → Image with caption

Images

- `` → Displays image
- **alt** attribute → Alternative text (important for accessibility)



Example of Image with Caption
