

WEB DESIGN AND DEVELOPMENT

Week 1

# **Creating Your First HTML Page**

- 1. Start with a plain text document:
  - On Windows: right-click  $\rightarrow$  *New*  $\rightarrow$  *Text Document*.
  - Change the extension from .txt to .html.
  - Example: name it **index.html** (all lowercase).
- 2. Why lowercase?
  - Windows may ignore case, but most web servers run on Linux.
  - On Linux, Index.html ≠ index.html. Using uppercase might break your site when you upload it.
- 3. If your computer warns you "the file might become unusable" when changing the extension, just confirm we want .html.
- 4. Once changed, the file icon usually updates to show it can be opened in a browser (like Chrome).
- 5. Opening this file in a browser at this stage shows a blank page (because no code is inside yet).

#### **Editing the File**

- You need a plain text editor, not Word.
- Common editors: **Notepad++**, **VS Code**, Atom (Mac/Windows).
- Open your index.html in one of these editors.

Tip: Make your text bigger when coding. In Notepad++, zoom with **Ctrl** + **mouse wheel**. This helps catch mistakes more easily.

# **Building the HTML Skeleton**

We start with 5 essential tags:

1. <!DOCTYPE html> tells the browser we're using HTML5.

2. <html> ... </html> wraps everything (the root).

3. <head> ... </head> contains metadata about the page.

4. <title> ... </title> defines the page title (shows up on browser tab).

5. <body> ... </body> holds the visible content (text, images, etc.).

# **Best practice:**

- Always open and close tags immediately before adding content.
  - o Example:
    - <html>
    - </html>
    - Then add child elements inside (nested in with indentation)

# **Indentation:**

- Use **tabs** rather than spaces so everything lines up neatly.
- Example:
- <html>
- <head>
- <title>My first page</title>
- </head>
- <body>
- This is my page
- </body>
- </html>

# **Testing the Page**

- Save the file (Ctrl+S)  $\rightarrow$  refresh the browser.
- At first, only the page **title** appears in the browser tab.
- Adding content (like This is my page) makes visible text appear.
- You can duplicate content quickly (e.g., in Notepad++ with Ctrl+D).

#### **Linking an External CSS File**

- 1. Inside your <head>, add:
- 2. link rel="stylesheet" href="style.css">
  - $\circ$  link = the tag.
  - o rel="stylesheet" = defines the relationship (it's a stylesheet).
  - href="style.css" = points to the CSS file name.
- 3. This tag is **self-closing** (no separate closing tag). In HTML5, /> at the end is optional but still okay to add.
- 4. Create a new file called **style.css** (same folder as your HTML file). If they aren't in the same folder, the HTML won't find the CSS without more advanced "pathing."

# **Adding CSS Rules**

# In style.css:

```
Targeting paragraphs ():
p {
color: blue;
font-family: Helvetica;
}

p is the selector (what to style).
color and font-family are properties.
blue and Helvetica are the values.
End each rule with a semicolon;.

Targeting a heading (<h1>):
h1 {
color: red;
font-family: Georgia;
}
Targeting everything in <body> (global change):
body {
font-size: 200%;
```

This doubles the default font size for everything inside <body>.

# Result

- Paragraphs () appear in **blue Helvetica**.
- Headings (<h1>) appear in red Georgia.
- If you use the body selector, all text grows larger.

# **Final Exercise (Practice)**

- You'll be given sample HTML and CSS files (some broken).
- Your task: **fix them** by:
  - o Making sure tags are properly opened/closed.
  - o Correcting tag names.
  - o Fixing CSS syntax (colons, semicolons, braces).