

HTML

Man Geni Addysg Uwch yng Nghymru
Where Higher Education Began in Wales

www.uwtsd.ac.uk

Objectives

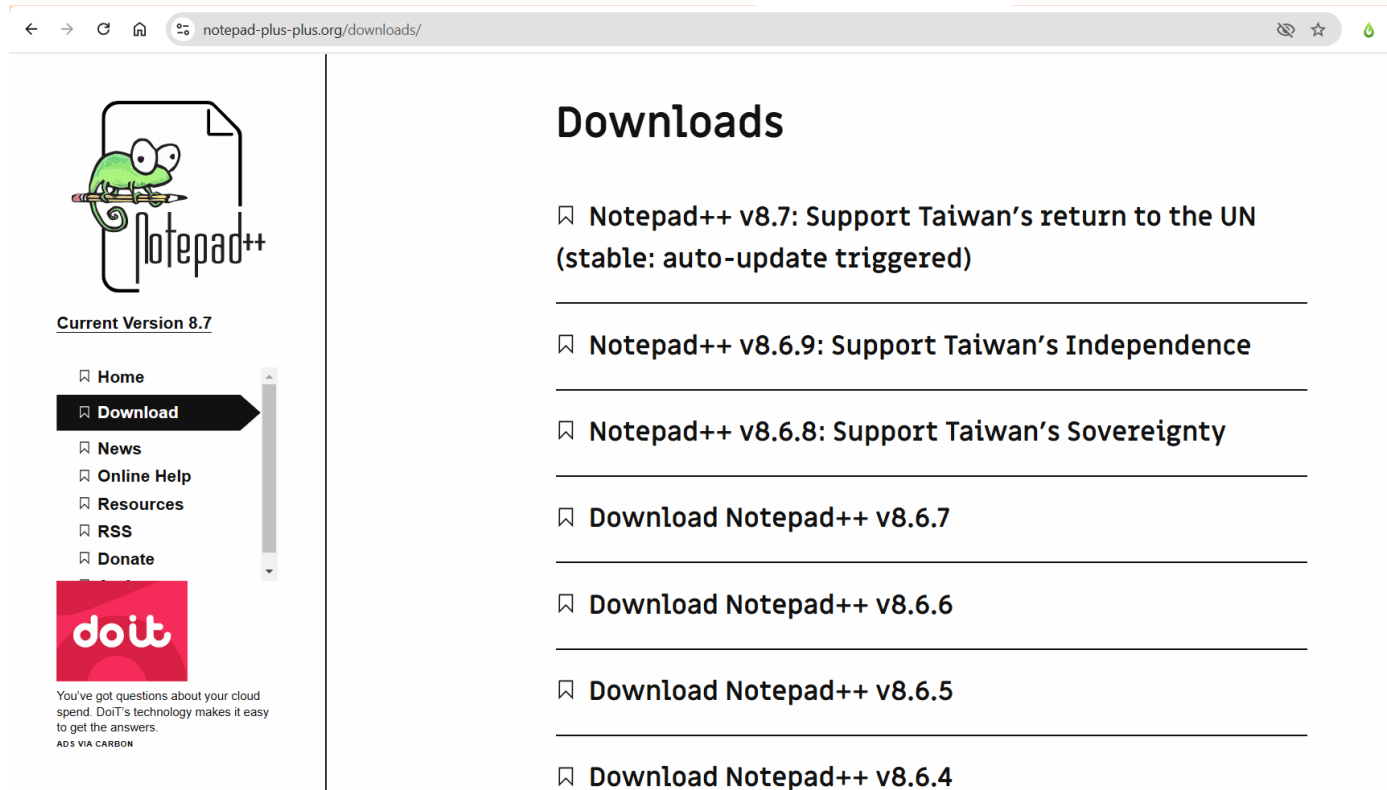
- an introduction to HTML
- Notepad++

What is HTML?

- **HTML - Hypertext Markup Language**
- Standard language for creating webpages
- structures content on the web
 - Tags: HTML uses tags to organize content.
Tags are words surrounded by < >.
 - Elements: Tags and the content inside them make up HTML elements.

Setting Up Notepad++ for HTML

<https://notepad-plus-plus.org/downloads/>



The screenshot shows the Notepad++ website's download page. The browser's address bar displays notepad-plus-plus.org/downloads/. On the left side, there is a navigation menu with links to Home, Download (which is highlighted), News, Online Help, Resources, RSS, and Donate. Below the menu is a red 'do it' logo and a small text block that reads: 'You've got questions about your cloud spend. DoIT's technology makes it easy to get the answers. ADS VIA CARBON'. The main content area is titled 'Downloads' and lists several versions of Notepad++ with their respective features or updates:

- Notepad++ v8.7: Support Taiwan's return to the UN (stable: auto-update triggered)
- Notepad++ v8.6.9: Support Taiwan's Independence
- Notepad++ v8.6.8: Support Taiwan's Sovereignty
- Download Notepad++ v8.6.7
- Download Notepad++ v8.6.6
- Download Notepad++ v8.6.5
- Download Notepad++ v8.6.4

Setting Up Notepad++ for HTML

<https://notepad-plus-plus.org/downloads/>

open Notepad++, select HTML as the language, and save a blank file as practice.html

Setting Up Notepad++ for HTML

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Practice File</title>  
  </head>  
  <body>  
    <h1>Hello, Notepad++!</h1>  
  </body>  
</html>
```

Anatomy of an HTML Element

tag

The element name in
angle brackets

element

The content and its markup
(start and end tags)

Opening tag

Content

(may be text and/or other HTML elements)

Closing tag

(starts with a /)

`<elementname>` Content here `</elementname>`

Element

Example:

`<h1>` Black Goose Bistro `</h1>`

Some Elements Are Empty

Some elements have no content and provide a simple directive. They are called empty elements:

`<element-name>`

Example: The `br` element inserts a line break.

`<p>1005 Gravenstein Highway North<br>Sebastopol, CA 95472</p>`

Basic HTML Document Structure

- **Activity:** Create a "Hello, World!" Page

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Hello World Page</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>Hello, World!</h1>
```

```
  </body>
```

```
</html>
```

Creating a Heading and Paragraph

- **Activity:** Write a Short Bio

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <title>About Me</title>
```

```
    </head>
```

```
    <body>
```

```
        <h1>John Doe</h1>
```

```
        <h2>About Me</h2>
```

```
        <p>I'm passionate about coding and technology. I love learning new things and working on creative projects.</p>
```

```
        <h3>My Interests</h3>
```

```
        <p>Some of my interests include web development, reading, and traveling.</p>
```

```
    </body>
```

```
</html>
```

Adding Links

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>My Favourite Website and Image</title>
```

```
</head>
```

```
<body>
```

```
<h1>Visit My Favourite Website</h1>
```

```
<p>Check out this awesome site:</p>
```

```
<a href=https://www.wikipedia.org target="_blank">Wikipedia</a>
```

```
<p>Visit <a href="https://www.wikipedia.org">Wikipedia</a> to learn  
more about various topics.</p>
```

```
</body>
```

```
</html>
```

Adding Links and Images

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Favourite Website and Image</title>
  </head>
  <body>
    <h1>Visit My Favourite Website</h1>
    <p>Check out this awesome site:</p>
    <a href="https://www.wikipedia.org" target="_blank">Wikipedia</a>
    <h2>Here is a picture I like:</h2>
    
  </body>
</html>
```

Creating Lists

- **Activity:** List Your Favourite Movies or Books

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>My Favorites</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>My Favorite Movies</h1>
```

```
    <ul>
```

```
      <li>Inception</li>
```

```
      <li>The Matrix</li>
```

```
      <li>Interstellar</li>
```

```
    </ul>
```

```
    <h1>My Top Books</h1>
```

```
    <ol>
```

```
      <li>1984 by George Orwell</li>
```

```
      <li>To Kill a Mockingbird by Harper Lee</li>
```

```
      <li>The Great Gatsby by F. Scott Fitzgerald</li>
```

```
    </ol>
```

```
  </body>
```

```
</html>
```

Meta tag

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
    <meta name="viewport" content="width=device-width,  
initial-scale=1.0">
```

```
    <title>My Simple Image Gallery</title>
```

```
</head>
```

Meta tag

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width,  
initial-scale=1.0">
```

```
  <title>My Simple Image Gallery</title>
```

```
</head>
```

Helps screen readers pronounce words correctly.
- Assists search engines in understanding the language of the page.

Meta tag

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>My Simple Image Gallery</title>
```

```
</head>
```

UTF stands for Unicode
Transformation Format

Meta tag

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>My Simple Image Gallery</title>
```

```
</head>
```

specifies that the meta tag is
for viewport settings.

Meta tag

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>My Simple Image Gallery</title>
```

```
</head>
```

sets the viewport width to the device's width, meaning the content will match the screen size (whether on a desktop, tablet, or smartphone).

Meta tag

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>My Simple Image Gallery</title>
```

```
</head>
```

sets the initial zoom level, so the page loads at 100% scale.

<head>

<meta name="description" content="Image Gallery">

<meta name="keywords" content="HTML, CSS">

<meta name="author" content="John">

<meta http-equiv="refresh" content="30">

</head>

Adding Images with Dimensions

```
<body>
```

```
    <h1>Welcome to My Simple Image Gallery</h1>
```

```
<p>Below are some images with specified dimensions.</p>
```

```
    <!-- Image 1 with specified dimensions -->
```

```
    <h2>Image 1</h2>
```

```
    
```

```
    <p>This image is set to 250px wide and 150px tall.</p>
```

Frames in HTML

Example: Using <iframe>

```
<!DOCTYPE html> <
html>
<head>
<title>Iframe Example</title>
</head>
<body>
<h1>Embedded Page with Iframe</h1>
<p>Here's an embedded Wikipedia page:</p>
<iframe src="https://en.wikipedia.org/wiki/Web_development"
width="600" height="400"> Your browser does not support
iframes.
</iframe>
</body>
</html>
```

Footer Element in HTML

The <footer> element is used to define a bottom section for a webpage.

It often contains:

- Contact information
- Copyright information
- Links to terms of service or privacy policies
- Navigation links(sometimes)

Footer Element in HTML

```
<footer>
```

```
<p>&copy; 2025 My Cooking Hobby. All rights reserved.</p>
```

```
<p>Contact: myemail@example.com</p>
```

```
<p>
```

Follow us on:

```
<a href="https://twitter.com" target="_blank">Twitter</a> |
```

```
<a href="https://facebook.com" target="_blank">Facebook</a> |
```

```
<a href="https://instagram.com" target="_blank">Instagram</a>
```

```
</p>
```

```
</footer> © 2025 My Cooking Hobby. All rights reserved.
```

Contact: myemail@example.com Follow us on: [Twitter](#) | [Facebook](#) | [Instagram](#)

Inserting special characters

Symbol	Entity Name	Entity Number
& (ampersand)	&	&
< (less than)	<	<
> (greater than)	>	>
(nonbreaking space)	 	
¢ (cent)	¢	¢
£ (pound)	£	£
¥ (yen)	¥	¥
© (copyright)	©	©
® (registered trademark)	®	®
° (degree)	°	°
± (plus or minus)	±	±
† (dagger)	†	†
™ (trademark)	™	™

Tables in html

```
<body>
```

```
<h2>Basic Table Example</h2>
```

```
<table border="1">
```

```
<!-- Table header -->
```

Comment line

```
<thead>
```

```
<tr>
```

```
<th>Name</th>
```

```
<th>Age</th>
```

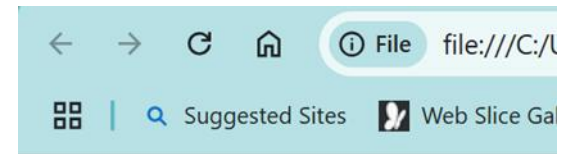
```
<th>City</th>
```

```
</tr>
```

```
</thead>
```

Tables in html

```
<tbody>
<tr> <td>John Smith</td>
  <td>30</td>
  <td>London</td> </tr>
<tr> <td>Emily Brown</td>
  <td>25</td>
  <td>Manchester</td> </tr>
<tr>
  <td>Oliver Jones</td>
  <td>22</td>
  <td>Birmingham</td>
</tr>
</tbody>
</table>
</body>
</html>
```



Basic Table Example

Name	Age	City
John Smith	30	London
Emily Brown	25	Manchester
Oliver Jones	22	Birmingham

Sections in HTML

Example: Using <section>

```
<!DOCTYPE html>
<html>
  <head>
    <title>HTML Sections Example</title>
  </head>
  <body>
    <header>
      <h1>Welcome to My Webpage</h1>
    </header>

    <section>
      <h2>About Me</h2>
      <p>Hi! I'm a web developer who loves
coding and design.</p>
    </section>
```

```
<section>
  <h2>My Projects</h2>
  <p>Here are some of my recent
projects in web development.</p>
</section>

<footer>
  <p>Contact me:
email@example.com</p>
</footer>
</body>
</html>
```

About Me

Hi! I'm a web developer who loves coding and design.

My Projects

Here are some of my recent projects in web development.

Contact

Email me at: email@example.com

© 2025 My Webpage

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Cooking Hobby - Home</title>
</head>
<body>
  <h1>Welcome to My Cooking World!</h1>
  <p>Cooking is my passion. I love trying out new recipes </p>
  <nav>
    <a href="index.html">Home</a> |
    <a href="about.html">About</a> |
    <a href="gallery.html">Gallery</a>
  </nav>
</body>
</html>
```

defines a section of the page
that contains navigation
links.

Activity

create a **three-page website** for an upcoming **event** of your choice. The website should provide clear and well-organised information about the event using **HTML**.

Each page must be properly linked so that users can easily navigate between them.

Pages to Include

- **Home Page:**

Introduce the event — include title, date, short description, and at least one image or embedded video (iframe).

- **Schedule / Programme Page:**

Display event details using **tables**, **lists**, or **sections** (e.g., daily schedule, speakers, or activities).

- **Contact / Registration Page:**

Include contact information, links, and optionally an embedded **Google Map iframe** showing the event location.

Choose One Theme from the List Below

- select **any one** of the following event themes:
- **Music Festival** – “Beats & Lights 2025”
- **Tech Conference** – “Innovate 2025”
- **University Open Day** – “Discover UWTSD”
- **Charity Fundraiser** – “Hearts United”
- **Food & Culture Festival** – “Taste of Wales”
- **Sports Event / Marathon** – “Run for Change”

Adding Images from Folder

- If the image is in the **same folder** as your HTML file:

```

```

- If it's in a subfolder (e.g., a folder called images):

```

```

- My Hobby

— html/ ← contains your HTML files

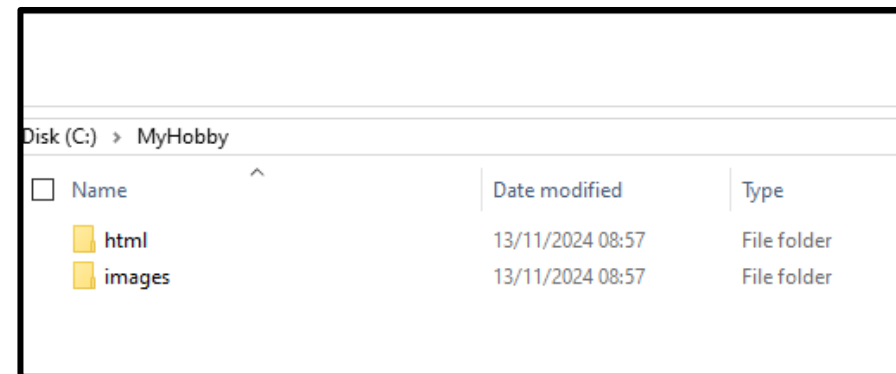
└─ index.html

images/ ← contains your image files

└─ photo.jpg

```

```



Further Reading :

Part I: Getting Started

Part II: HTML Markup for Structure

Robbins, J., 2018, Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics, O'Reilly Media