

# Web Development

**CLICK  
START.**

BATH  
SPA  
UNIVERSITY

## Session 2: HTML

# Session Overview

- 10:00-12:00 Lecture
- 12:00-13:15 Tasks and lunch
- 13:15-13:30 Session wrap up



# Lesson Objectives

- To understand HTML text formatting
- To understand how to use headings, paragraphs, images, hyperlinks, lists and tables in HTML
- To understand the need and use of entities in HTML
- To understand the need and use of comments in HTML
- To be able to apply knowledge of HTML syntax to create a basic web page

# Keywords

Keyword	Description
Headings	Pre-defined HTML elements that are used as titles and subtitles.
Text Formatting	Formatted text is text displayed in a special, specified style, such as <b>bold</b> , <i>italic</i> and <u>underlined</u> .
Line break	An instruction to move to the next line on a web page.
Hyperlink	A hyperlink will open another web page (or jump to another part of the current web page) when clicked.
Entities	Special characters such as symbols. They also must be used when you wish to display <b>reserved characters</b> , such as <, >, " and '.

# HTML headings

`<h1>This is heading 1</h1>`

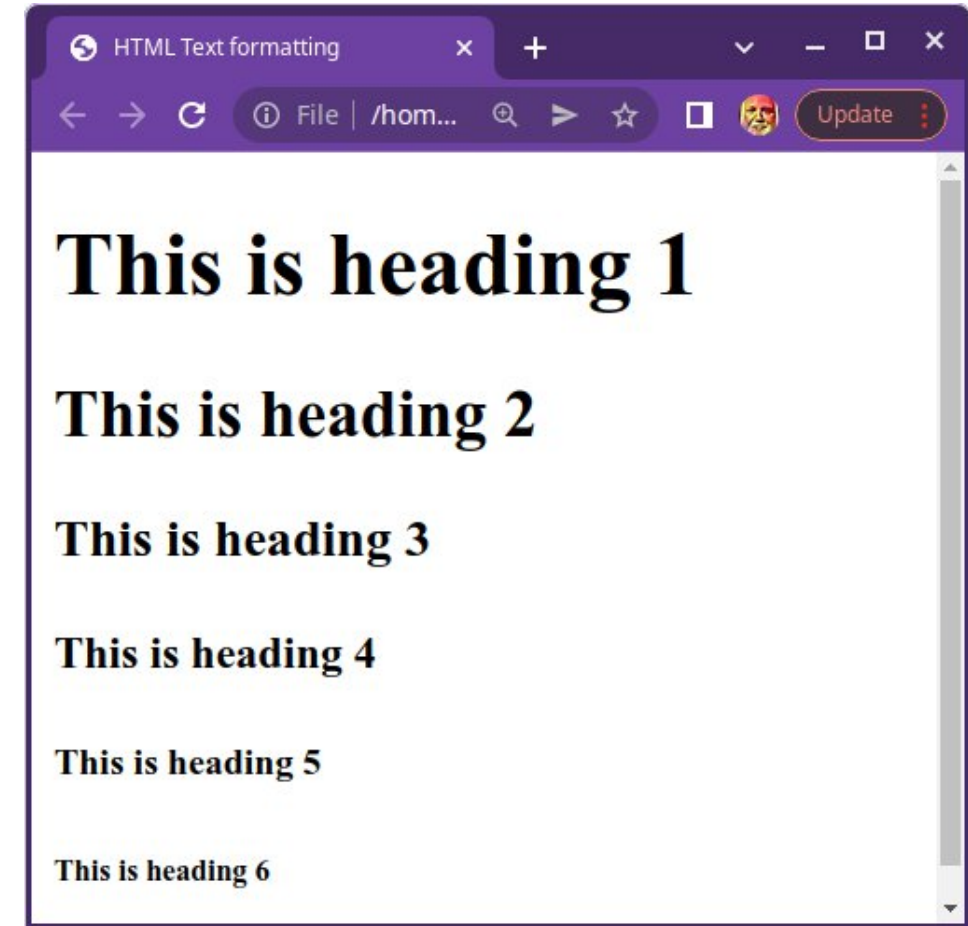
`<h2>This is heading 2</h2>`

`<h3>This is heading 3</h3>`

`<h4>This is heading 4</h4>`

`<h5>This is heading 5</h5>`

`<h6>This is heading 6</h6>`



# HTML text formatting

`<b>`This text is bold.`</b>`

`<i>`This text is italic.`</i>`

`<u>`This text is underlined.`</u>`

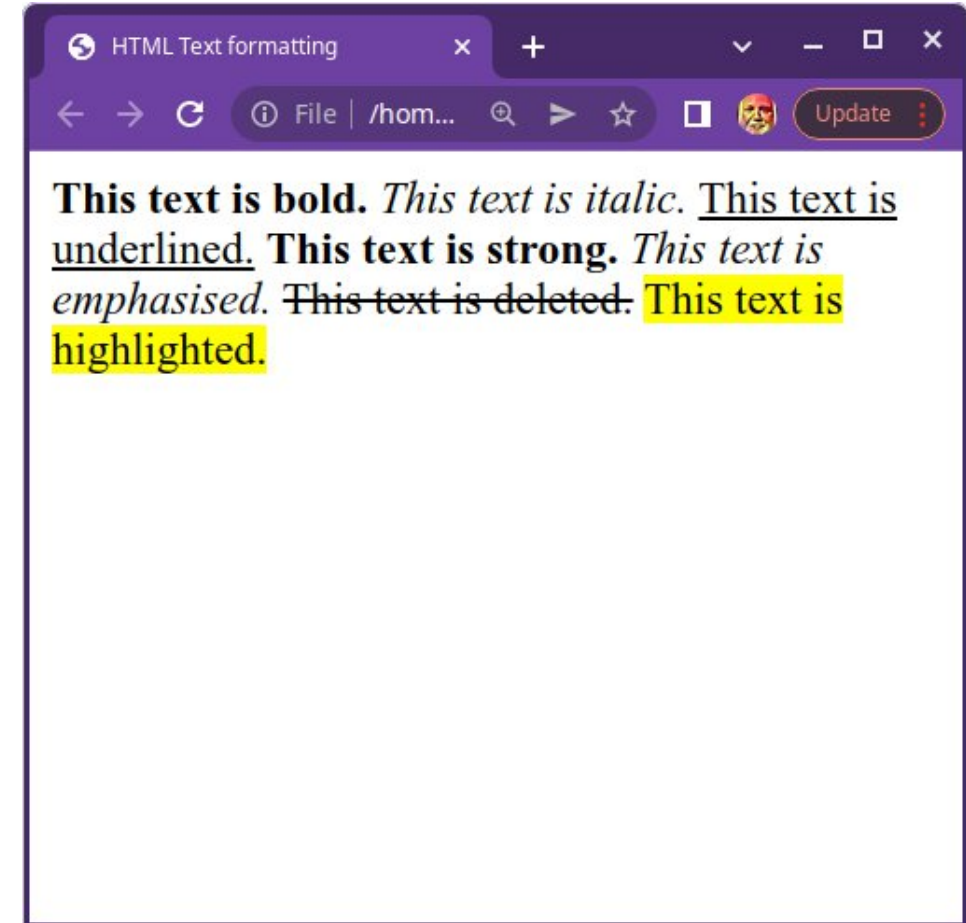
`<strong>`This text is strong.`</strong>`

`<em>`This text is emphasised.`</em>`

`<del>`This text is deleted.`</del>`

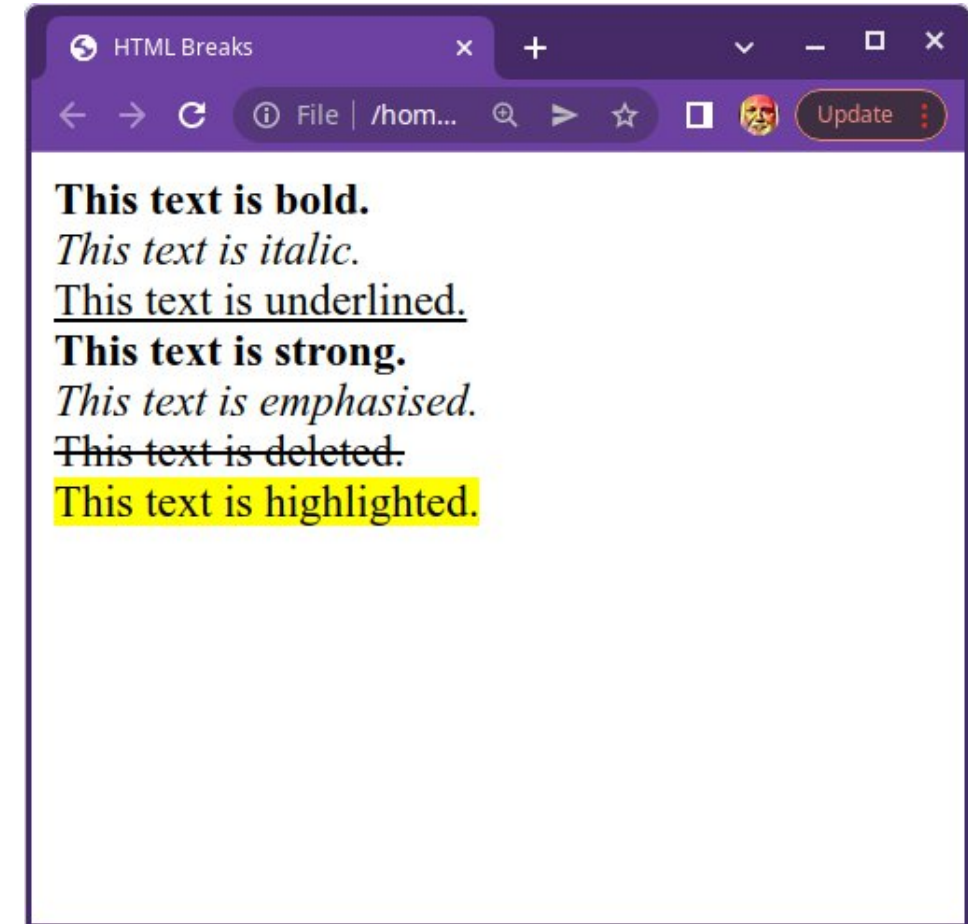
`<mark>`This text is highlighted.`</mark>`

**Note:** By default emphasised text will be in *italic* and strong text will be in **bold**.



# HTML line breaks

`<b>This text is bold.</b><br>`  
`<i>This text is italic.</i><br>`  
`<u>This text is underlined.</u><br>`  
`<strong>This text is strong.</strong><br>`  
`<em>This text is emphasised.</em><br>`  
`<del>This text is deleted.</del><br>`  
`<mark>This text is highlighted.</mark>`





# HTML paragraphs

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

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

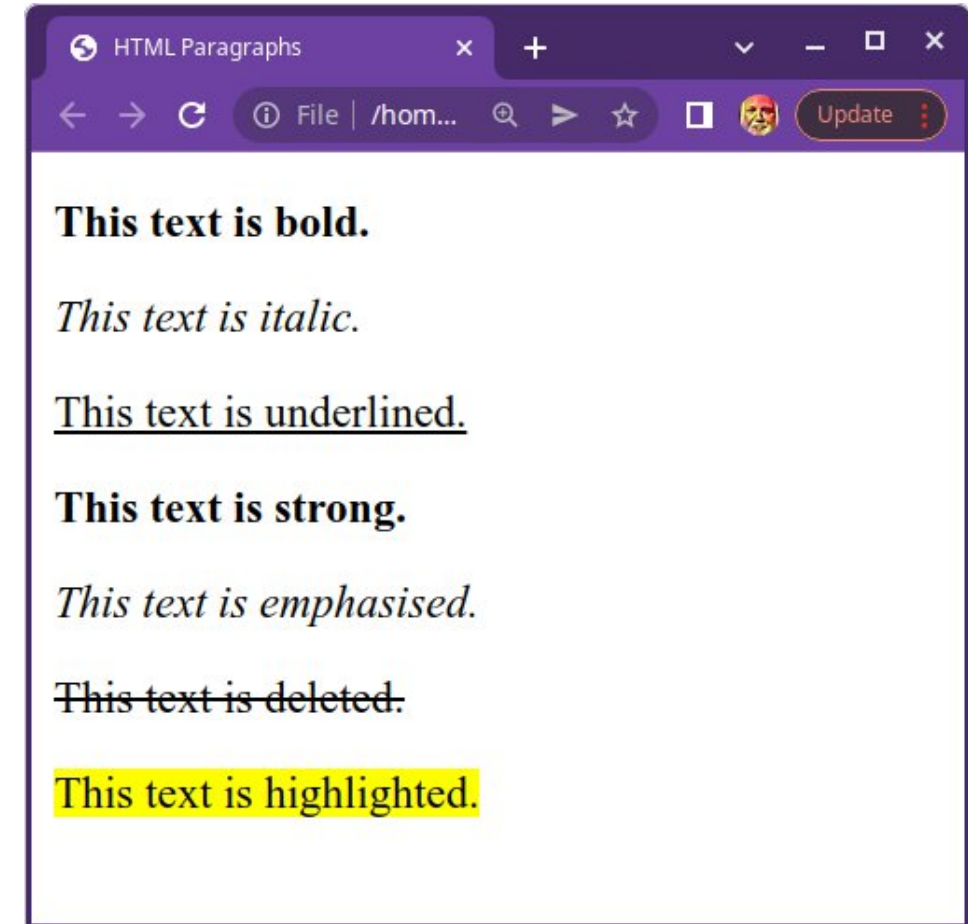
<p><u>This text is underlined.</u></p>

<p><strong>This text is strong.</strong></p>

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

<p><del>This text is deleted.</del></p>

<p><mark>This text is highlighted.</mark></p>





# HTML images

```

```

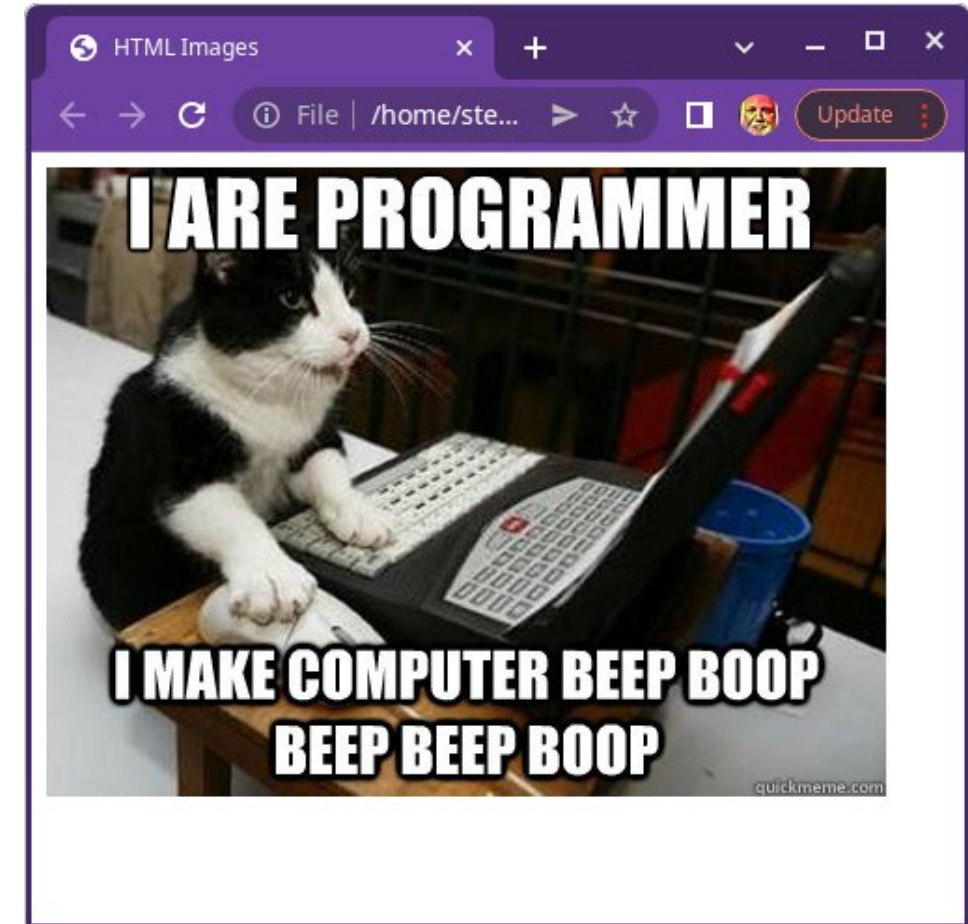
**Note:** This is called a **relative URL**, because it is relative to the location of the HTML file.

📁 html

- 🖼️ images.html

- 📁 images

- 🖼️ cat.jpg



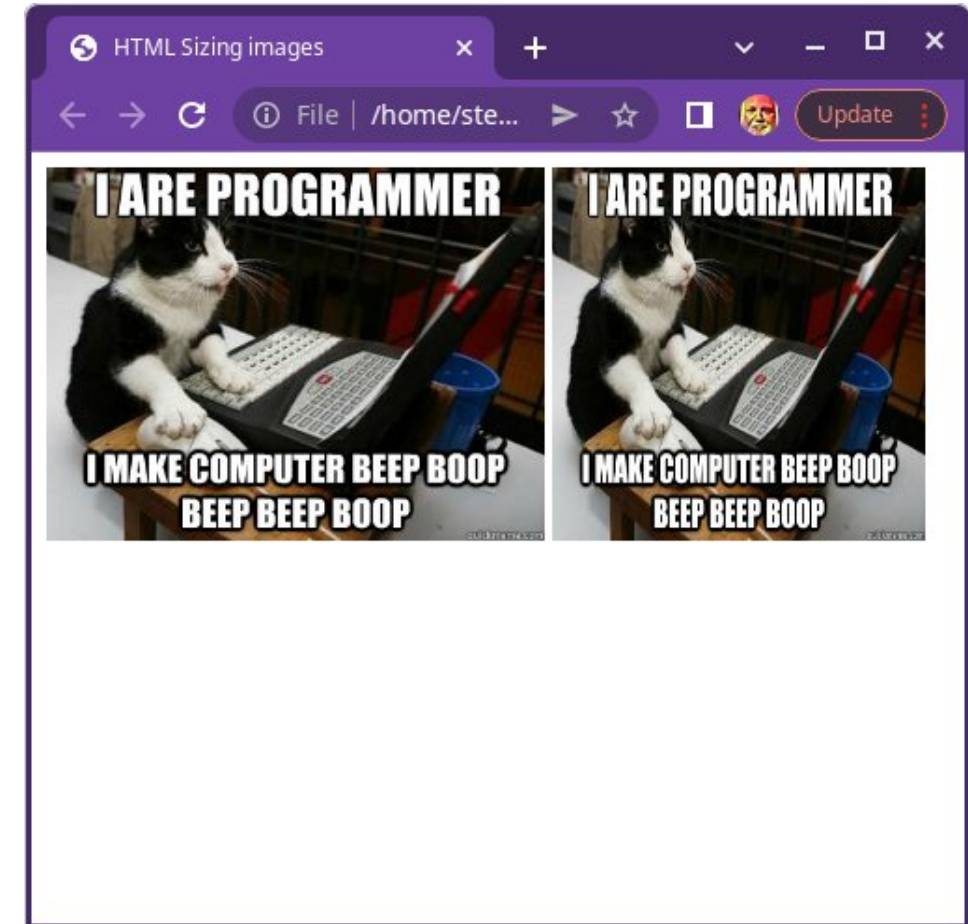
# HTML sizing images

```

```

```

```



# HTML hyperlinks

```
<a href="headings.html">Headings</a>
```

```
<br><br>
```

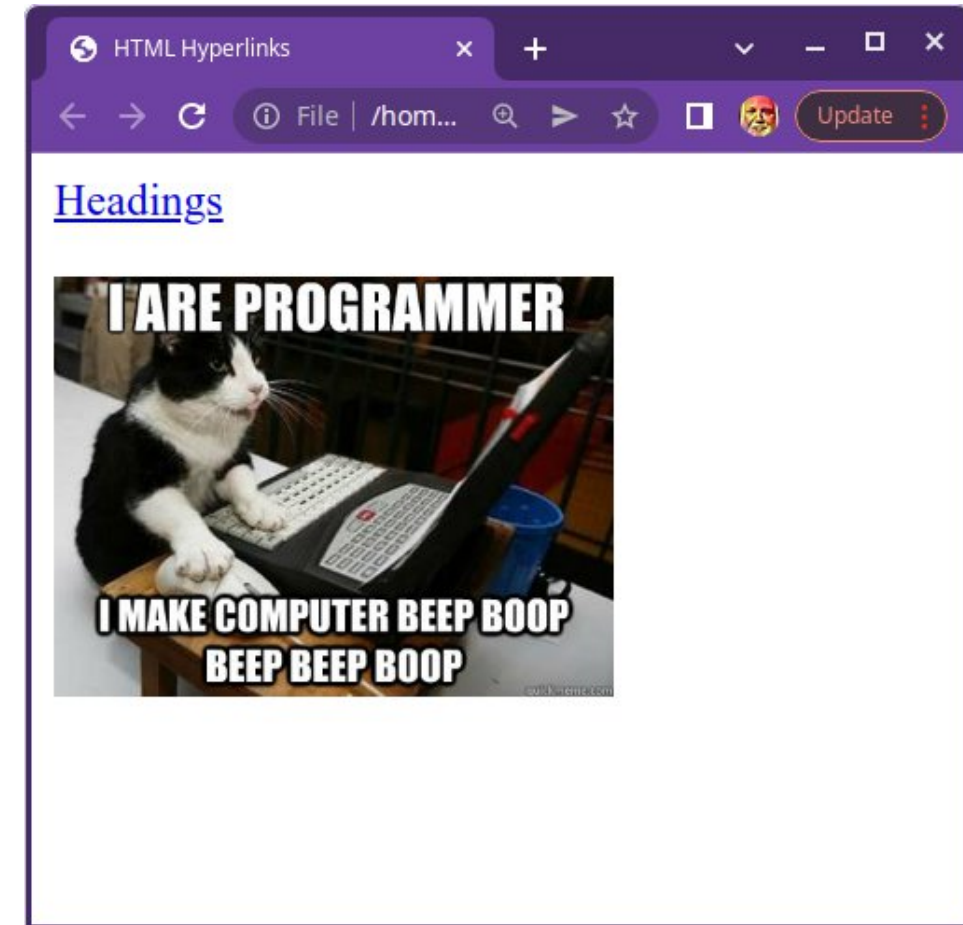
```
<a href="images.html" target="_blank">
```

```

```

```
</a>
```

**Note:** Use `target="_blank"` to open the linked page in a new tab. There are other **target** options that are used less often.



# HTML hyperlinks

```
<a href="headings.html">Headings</a>
```

```
<br><br>
```

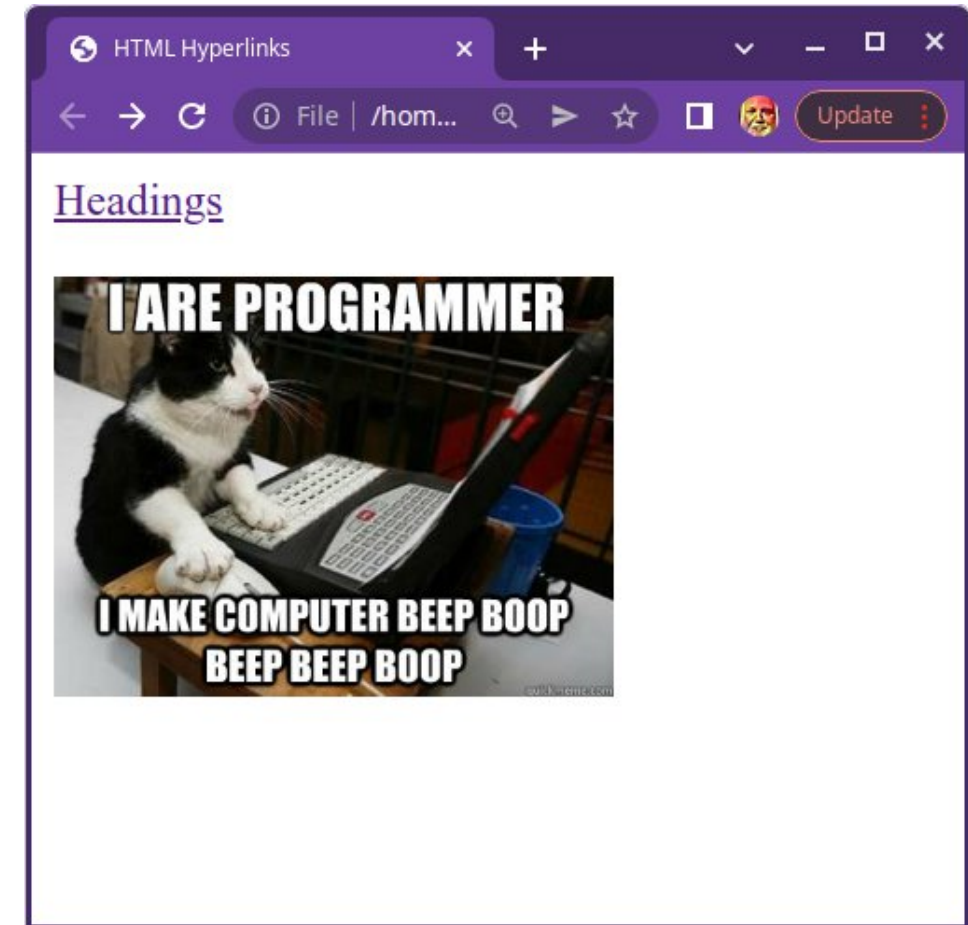
```
<a href="images.html" target="_blank">
```

```

```

```
</a>
```

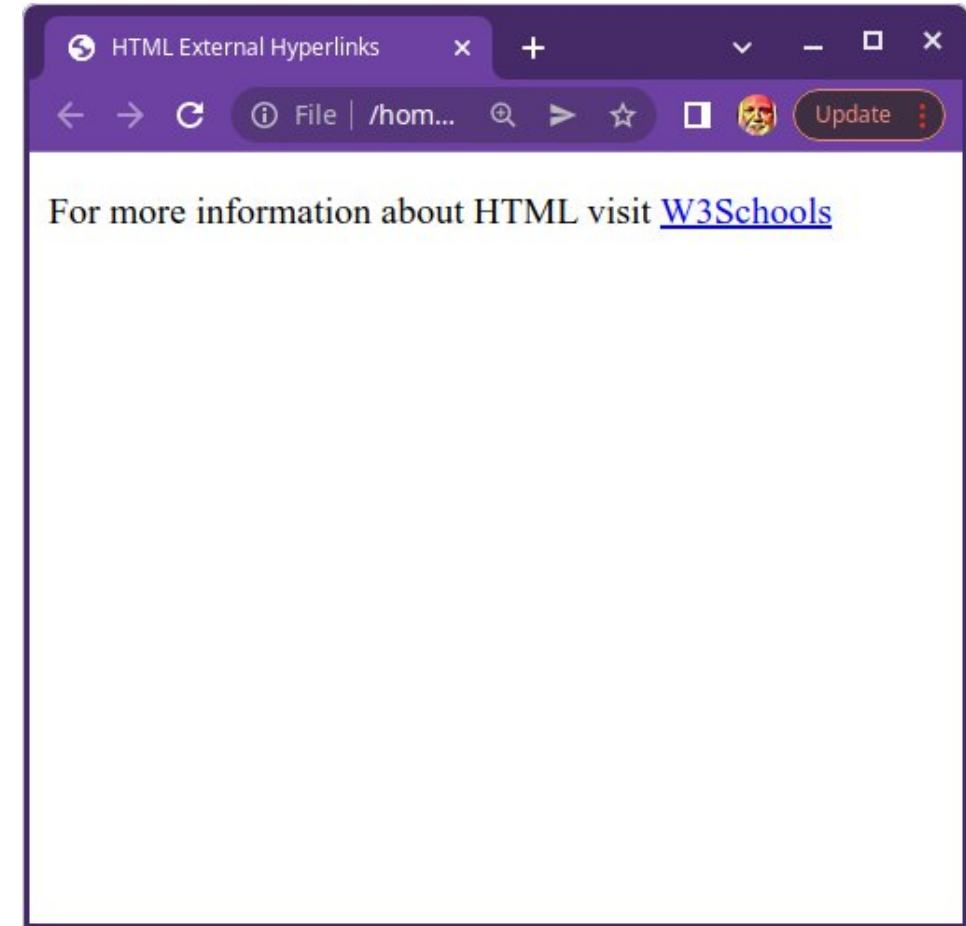
**Note:** By default, a hyperlink changes colour once it has been used.



# HTML hyperlinks

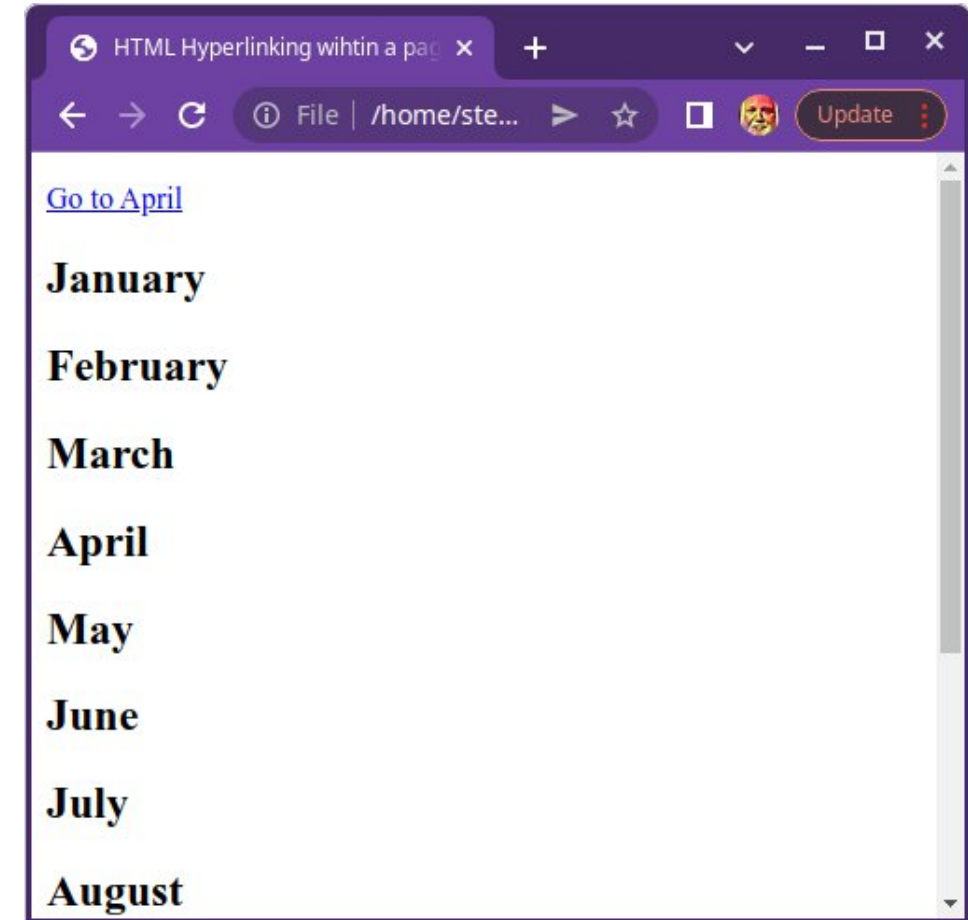
```
<p>For more information about HTML visit  
<a href="https://www.w3schools.com/html/">  
W3Schools</a>  
</p>
```

**Note:** This is called an **absolute URL** because it includes the full web address. Also, there is a space after "visit"



# HTML hyperlinks

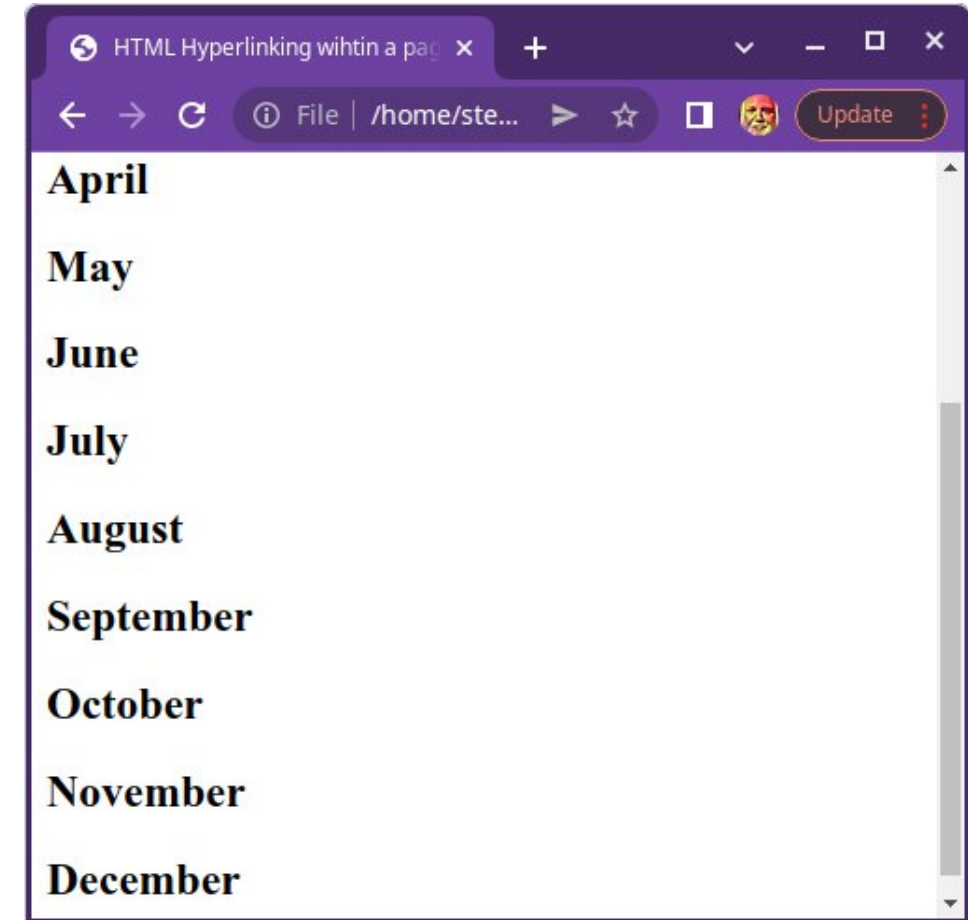
```
<p><a href="#apr">Go to April</a></p>
<h2>January</h2><h2>February</h2>
<h2>March</h2><h2 id="apr">April</h2>
<h2>May</h2><h2>June</h2>
<h2>July</h2><h2>August</h2>
<h2>September</h2><h2>October</h2>
<h2>November</h2><h2>December</h2>
```





# HTML hyperlinks

```
<p><a href="#apr">Go to April</a></p>
<h2>January</h2><h2>February</h2>
<h2>March</h2><h2 id="apr">April</h2>
<h2>May</h2><h2>June</h2>
<h2>July</h2><h2>August</h2>
<h2>September</h2><h2>October</h2>
<h2>November</h2><h2>December</h2>
```



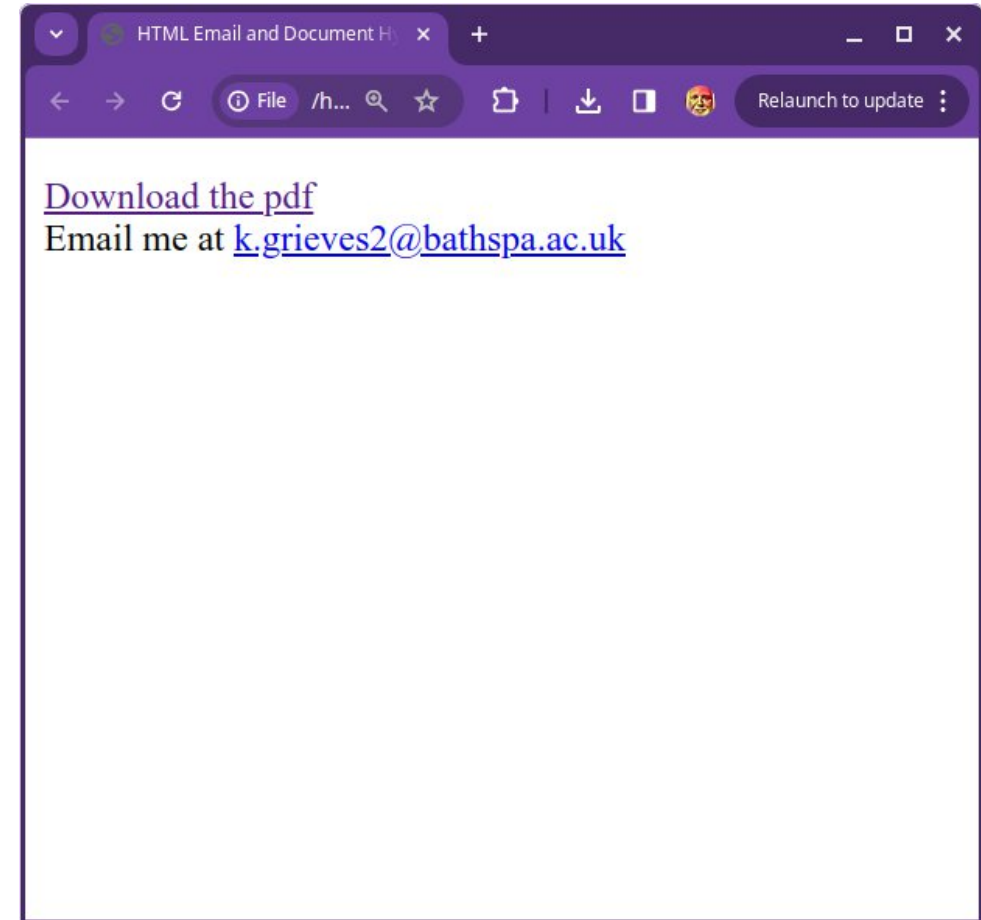


# HTML hyperlinks

`<a href="DBP.pdf">Download the pdf</a>`

`<br>Email me at`

`<a href="mailto:k.grieves2@bathspa.ac.uk">  
k.grieves2@bathspa.ac.uk</a>`



# HTML ordered lists

`<ol>`

`<li>North</li>`

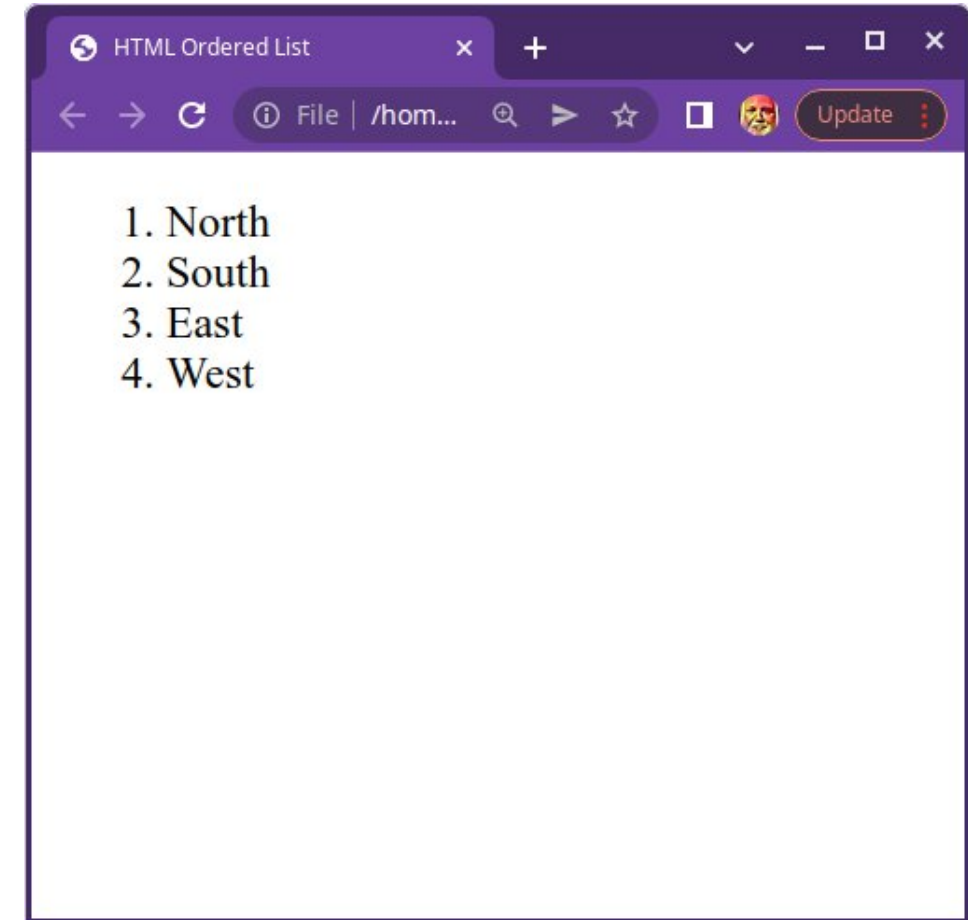
`<li>South</li>`

`<li>East</li>`

`<li>West</li>`

`</ol>`

**Note:** Use tabs to indent your code to increase readability by making it clear what contains what

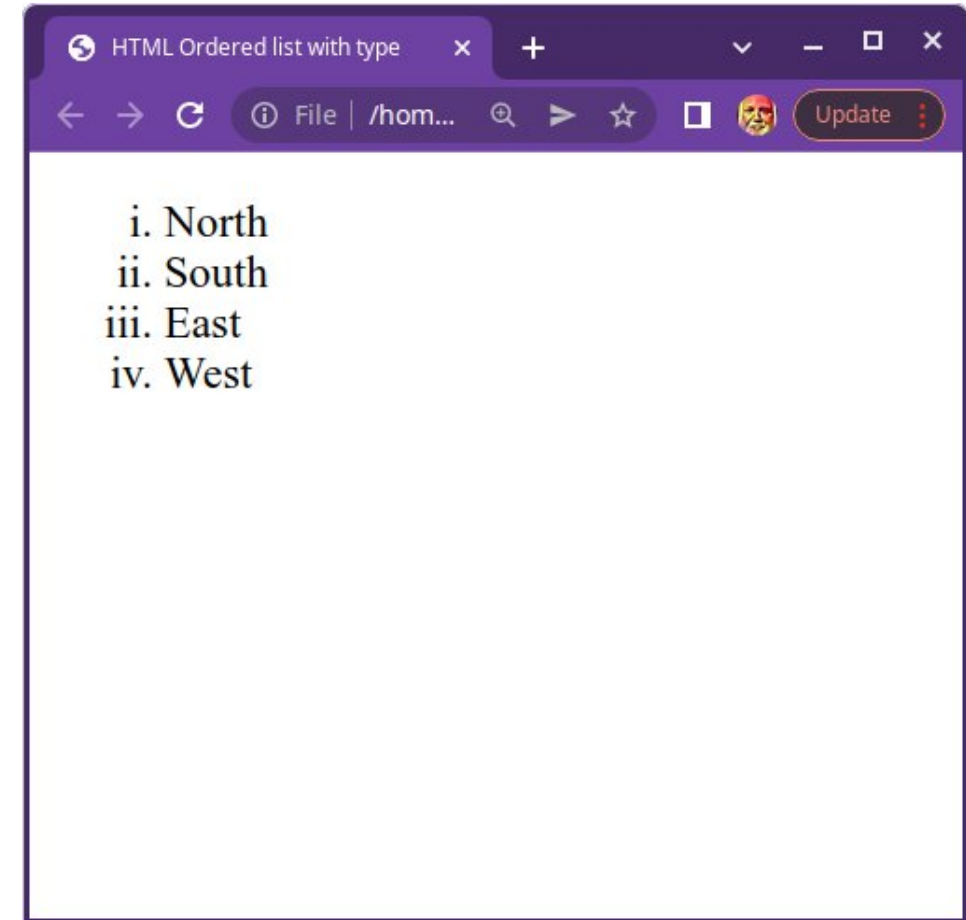


# HTML ordered list types

```
<ol type="i">  
  <li>North</li>  
  <li>South</li>  
  <li>East</li>  
  <li>West</li>  
</ol>
```

**Note:** Other types are listed at...

[https://www.w3schools.com/html/html\\_lists\\_ordered.asp](https://www.w3schools.com/html/html_lists_ordered.asp)



# HTML unordered lists

`<ul>`

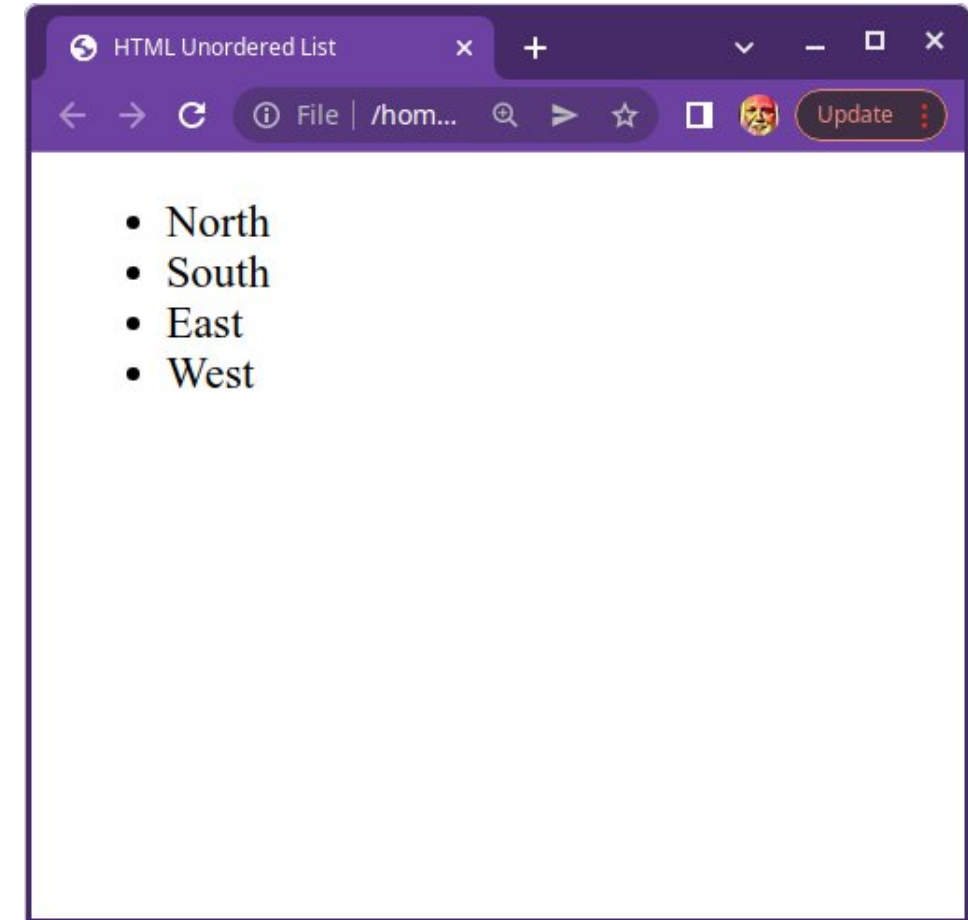
`<li>North</li>`

`<li>South</li>`

`<li>East</li>`

`<li>West</li>`

`</ul>`



# HTML nested lists

```
<ul>
```

```
  <li>North</li>
```

```
  <ul>
```

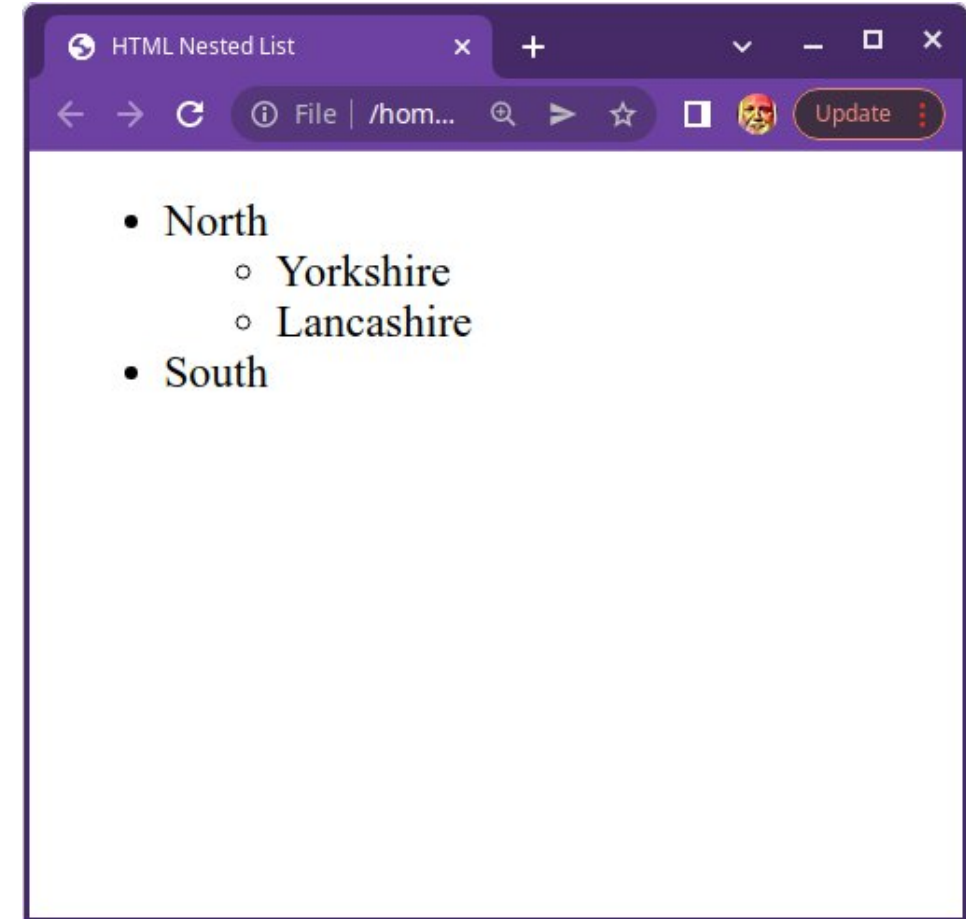
```
    <li>Yorkshire</li>
```

```
    <li>Lancashire</li>
```

```
  </ul>
```

```
  <li>South</li>
```

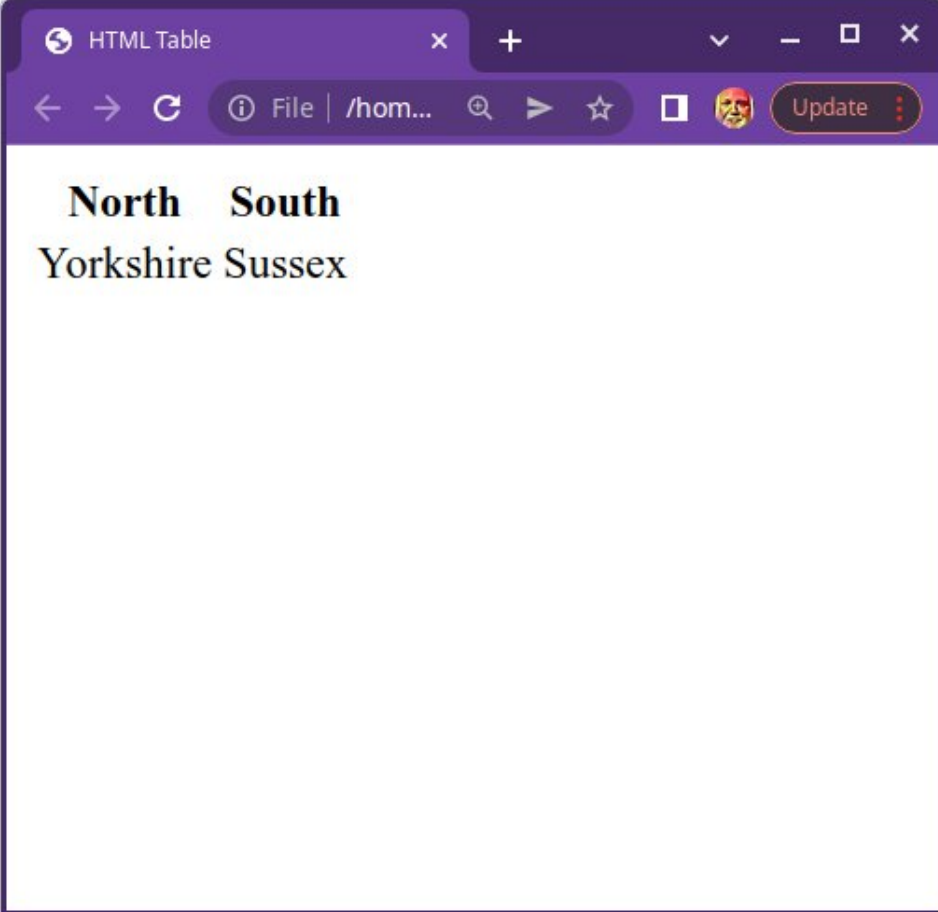
```
</ul>
```



# HTML tables

```
<table>
  <tr>
    <th>North</th>
    <th>South</th>
  </tr>
  <tr>
    <td>Yorkshire</td>
    <td>Sussex</td>
  </tr>
</table>
```

**Note:** Use CSS to add borders and colours

A screenshot of a web browser window titled "HTML Table". The browser's address bar shows "File | /hom...". The rendered table is displayed with two columns: "North" and "South". The first row contains "Yorkshire" under "North" and "Sussex" under "South".

North	South
Yorkshire	Sussex

# HTML entities

<p>Kevin says, &quot;Use entities for &gt; &amp; &lt;.&quot;;</p>

<p>Other entities include...

<ul>

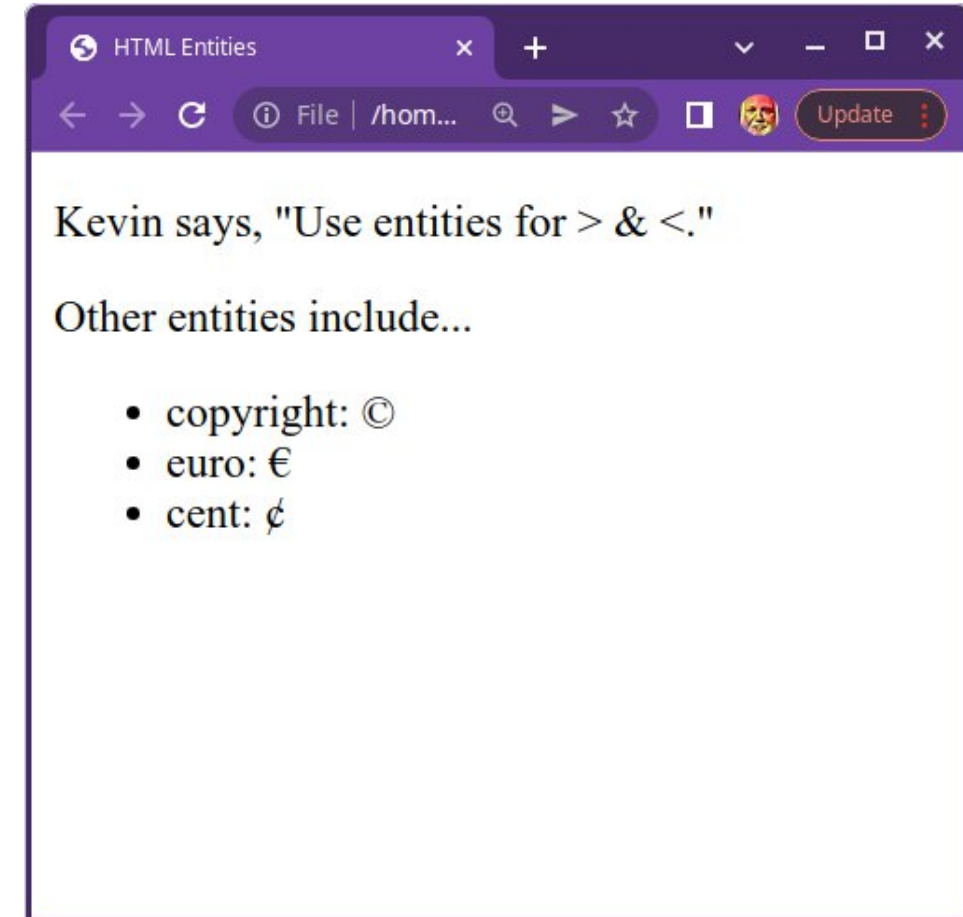
<li>copyright: &copy;</li>

<li>euro: &euro;</li>

<li>cent: &cent;</li>

</ul></p>

**Note:** Other entities (including accents) are listed at  
[https://www.w3schools.com/html/html\\_entities.asp](https://www.w3schools.com/html/html_entities.asp)

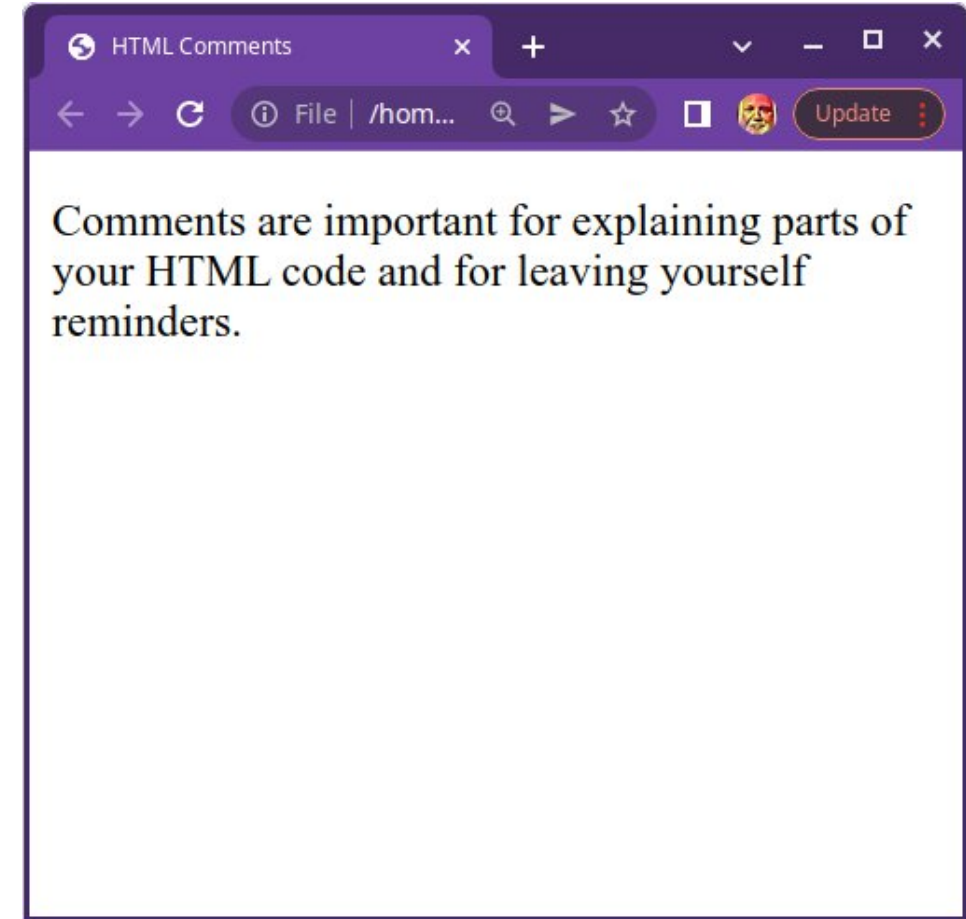




# HTML comments

`<!-- This is a comment -->`

`<p>Comments are important for explaining parts of your HTML code and for leaving yourself reminders.</p>`



# Troubleshooting

If the page does not show correctly...

- Make sure that you saved the web pages with the **html** extension
  - You may want to [set Windows to show file extensions](#)
- Check to make sure that your tags are properly formatted: **<h1>**
- Check to make sure that when you open a tag you have also closed it: **</h1>**
- Check case sensitivity (Windows does not care whether urls are upper or lower case, but web servers often do)

# Personal Website Task

- Create a web page called **index.html** that contains
  - A short biographical paragraph
  - A list containing your previous experience
  - An image of yourself or an avatar
- Create a second web page called **portfolio.html** that includes hyperlinks to
  - Your digital marketing plan
  - Your Figma prototype
  - Any other portfolio pieces
- Make use of the html examples that I have provided



# Task

- Set up a **Github** account at <https://github.com/>
- Create a repository
- [Upload your web pages to GitHub](#)
- Deploy them to GitHub Pages
- Share a link to your web site on Slack



# Session Wrap up

