Web Development

Click Start

Session 2

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 **bold**, *italic* 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 **reserved characters**, such as **<, >, "** and **'**.

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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>
```
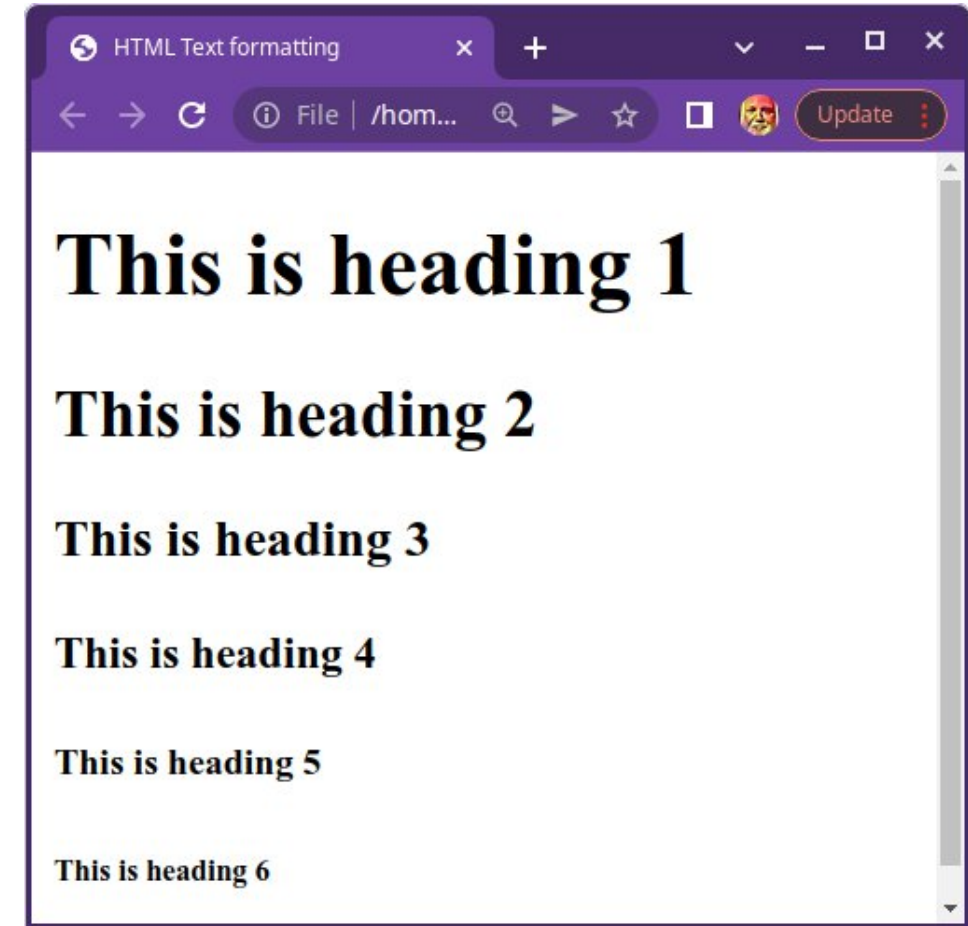
HTML text formatting

This text is bold.

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

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

This text is strong.

This text is emphasised.

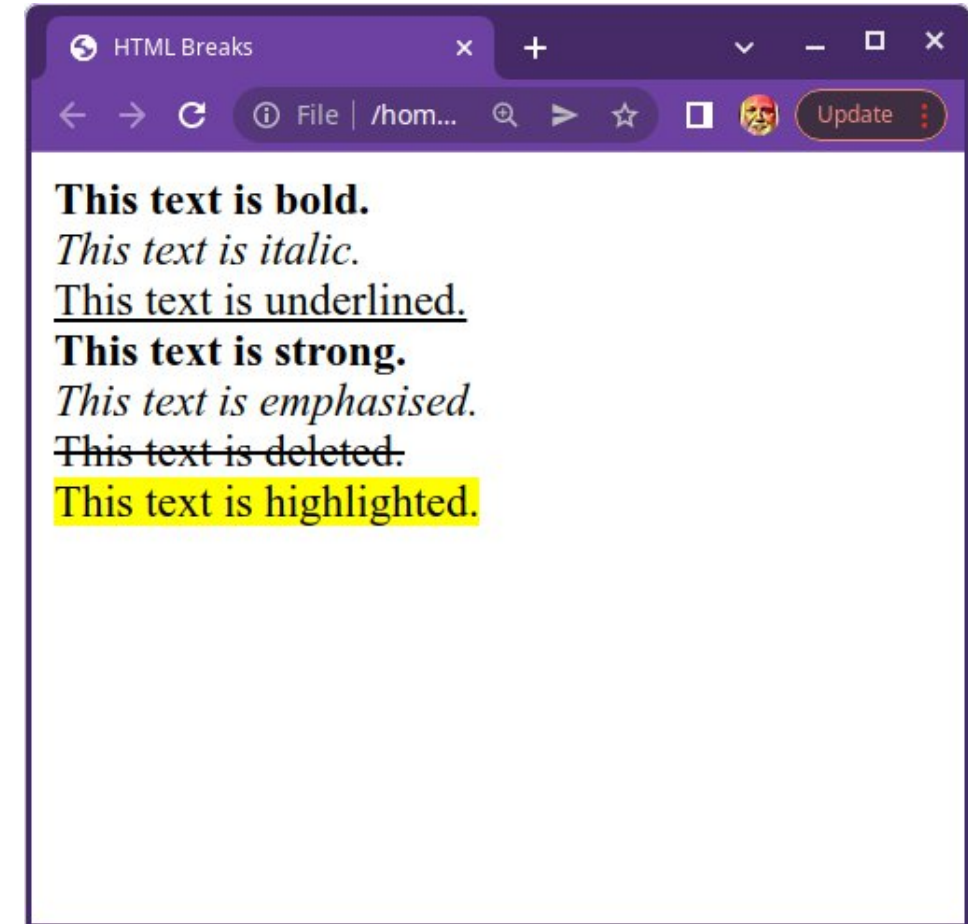~~This text is deleted.~~

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

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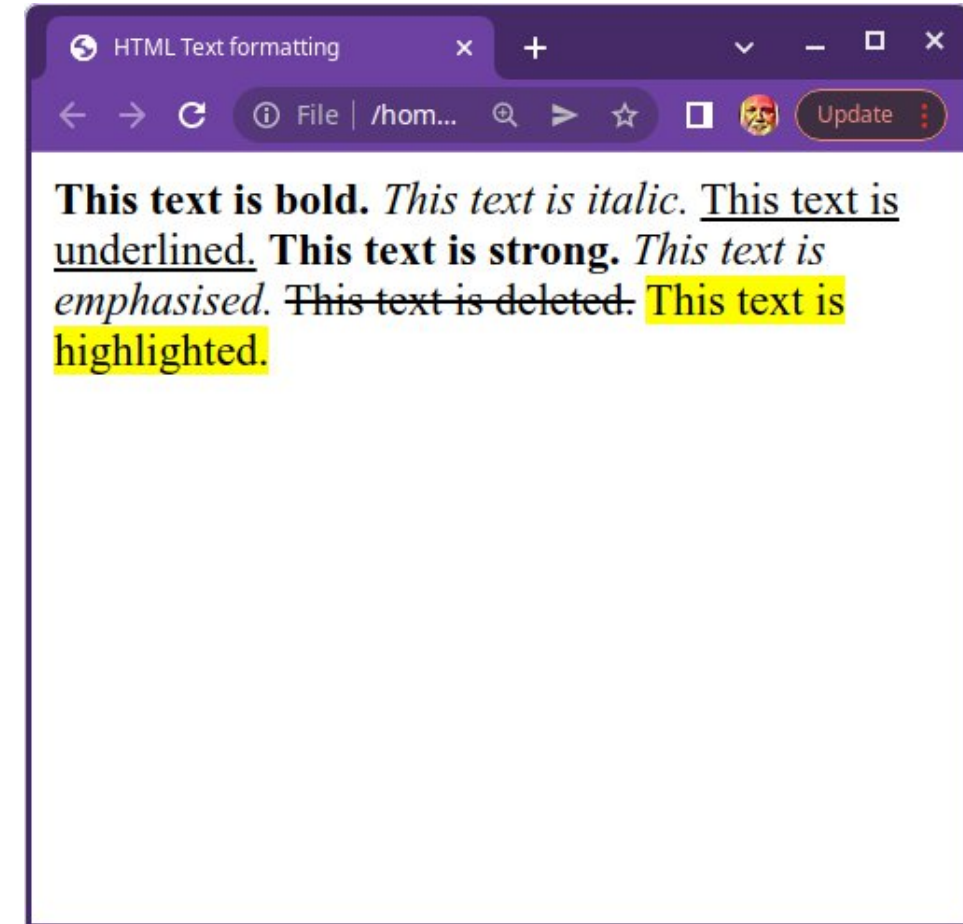
HTML line breaks

This text is bold.
<i>This text is italic.</i>
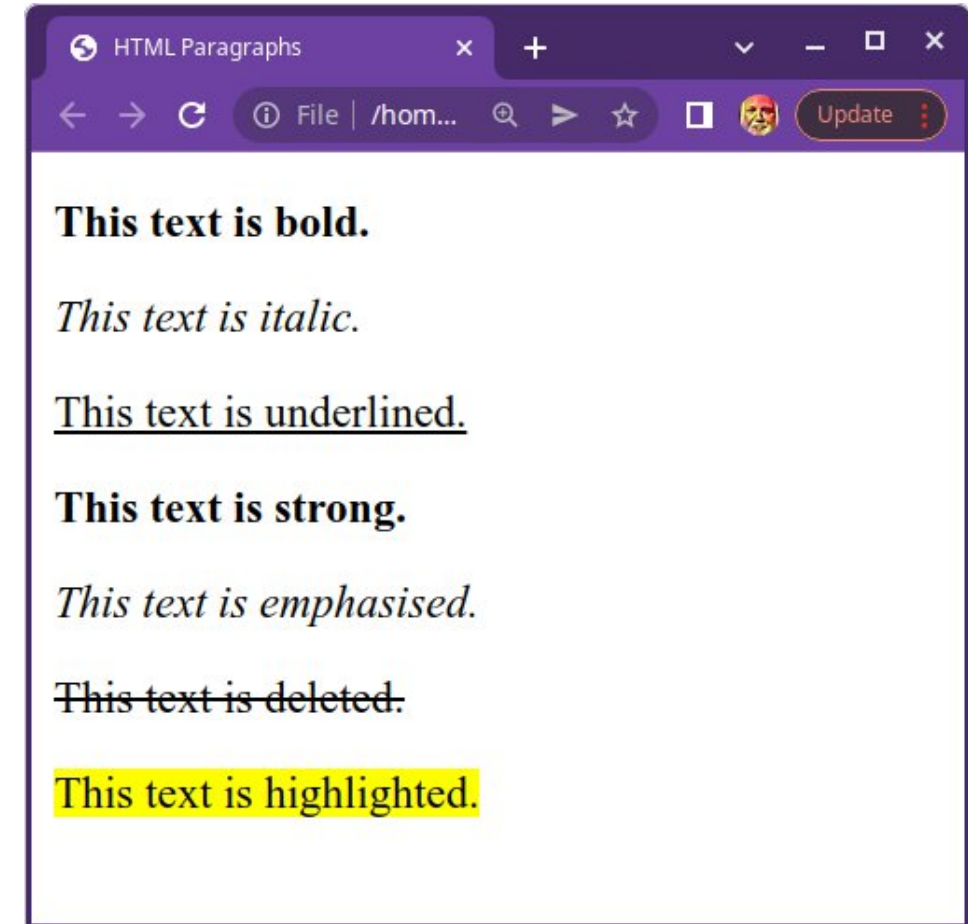<u>This text is underlined.</u>
This text is strong.
This text is emphasised.
~~This text is deleted.~~
<mark>This text is highlighted.</mark>

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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>`

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HTML images

`<img src="./images/cat.jpg" alt="lolcat">`

Note: This is called a **relative URL**, because it is relative to the location of the HTML file.
- 📁 **html**
  - ⟨⟩ images.html
  - 📁**images**
    - 🖼cat.jpg
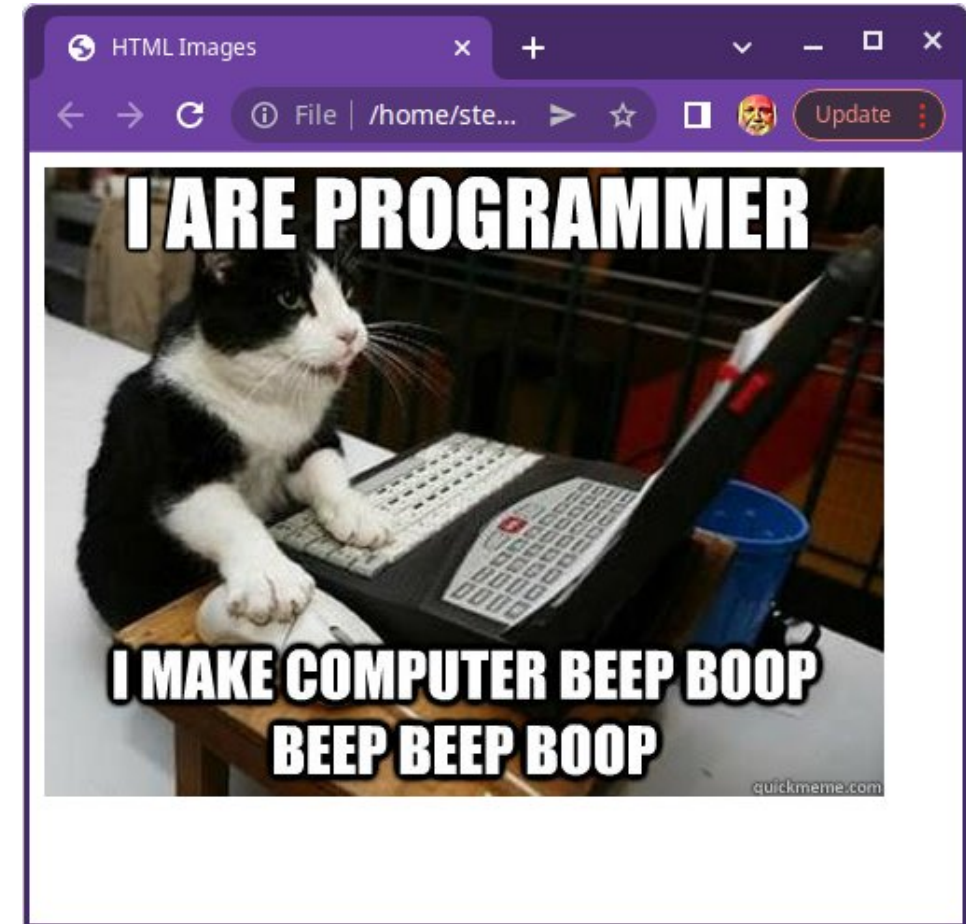
HTML sizing images
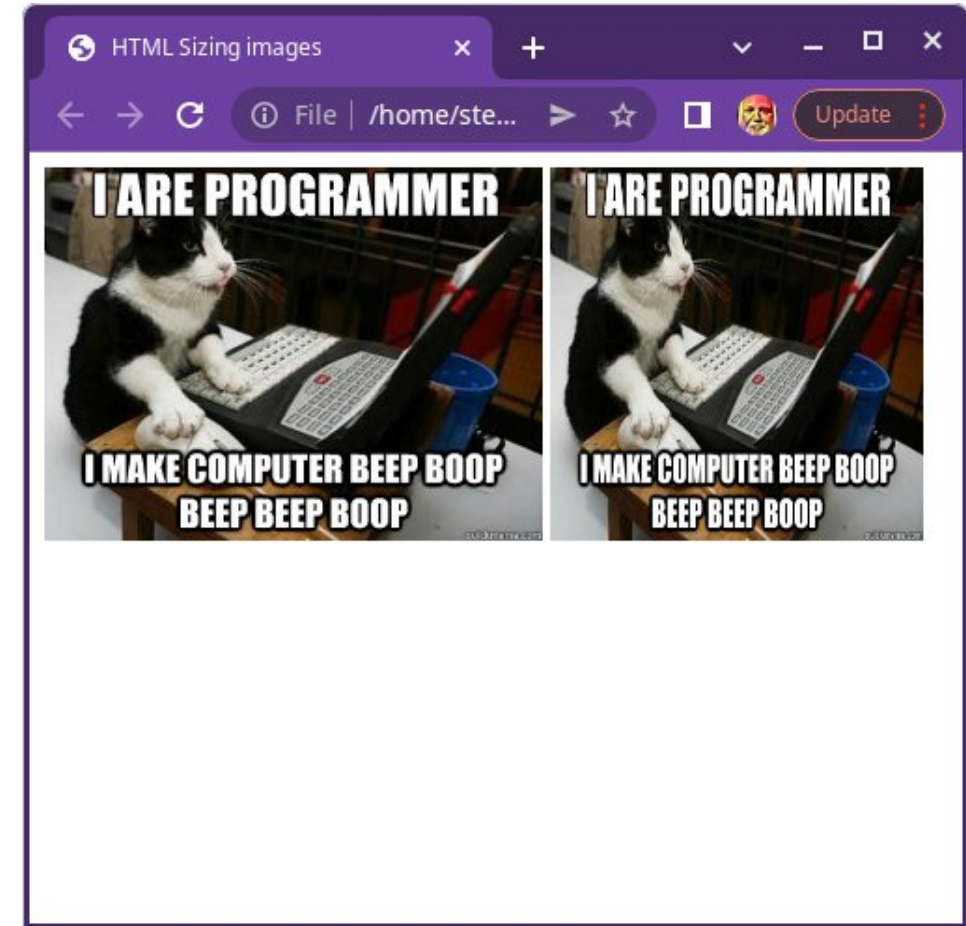
<img src="./images/cat.jpg" height="200">

<img src="./images/cat.jpg" height="200" width="200">

HTML hyperlinks

```
<a href="headings.html">Headings</a>
<br><br>
<a href="images.html" target="_blank">
<img src="./images/cat.jpg" width="200">
</a>
```
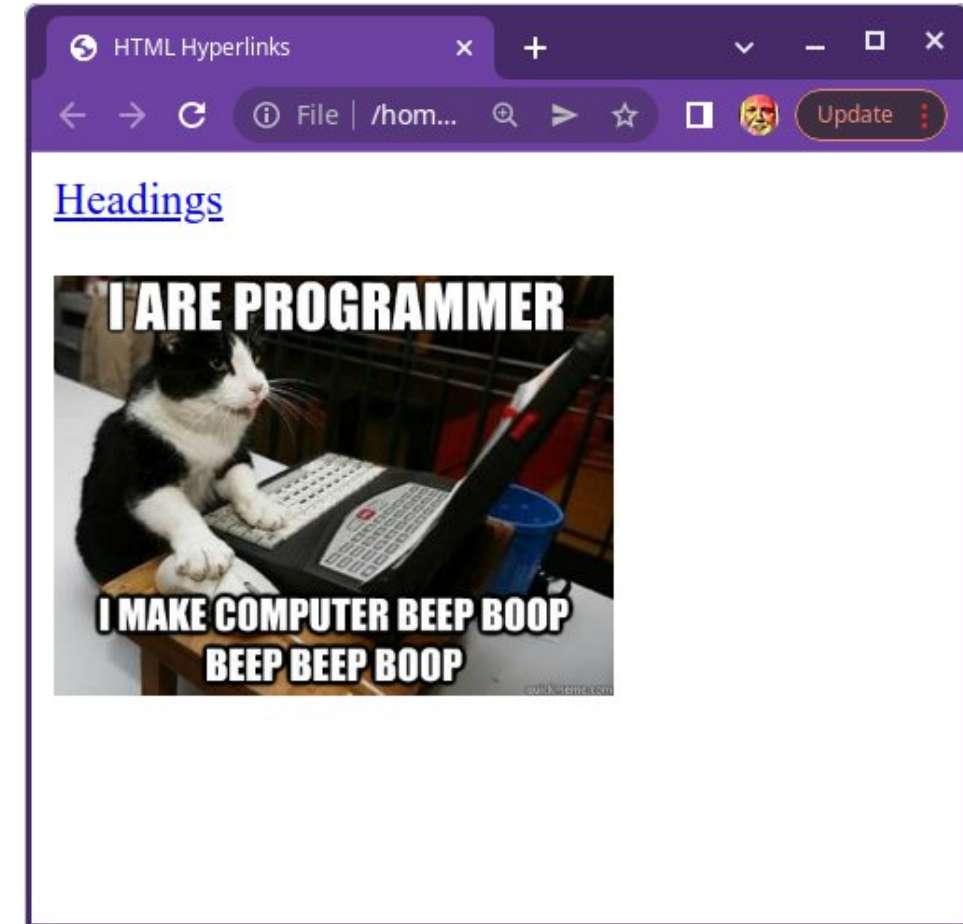
Note: Use **target="_blank"** to open the linked page in a new tab.
There are other **target** options that are used less often.

HTML hyperlinks

```
<a href="headings.html">Headings</a>
<br><br>
<a href="images.html" target="_blank">
<img src="./images/cat.jpg" width="200">
</a>
```
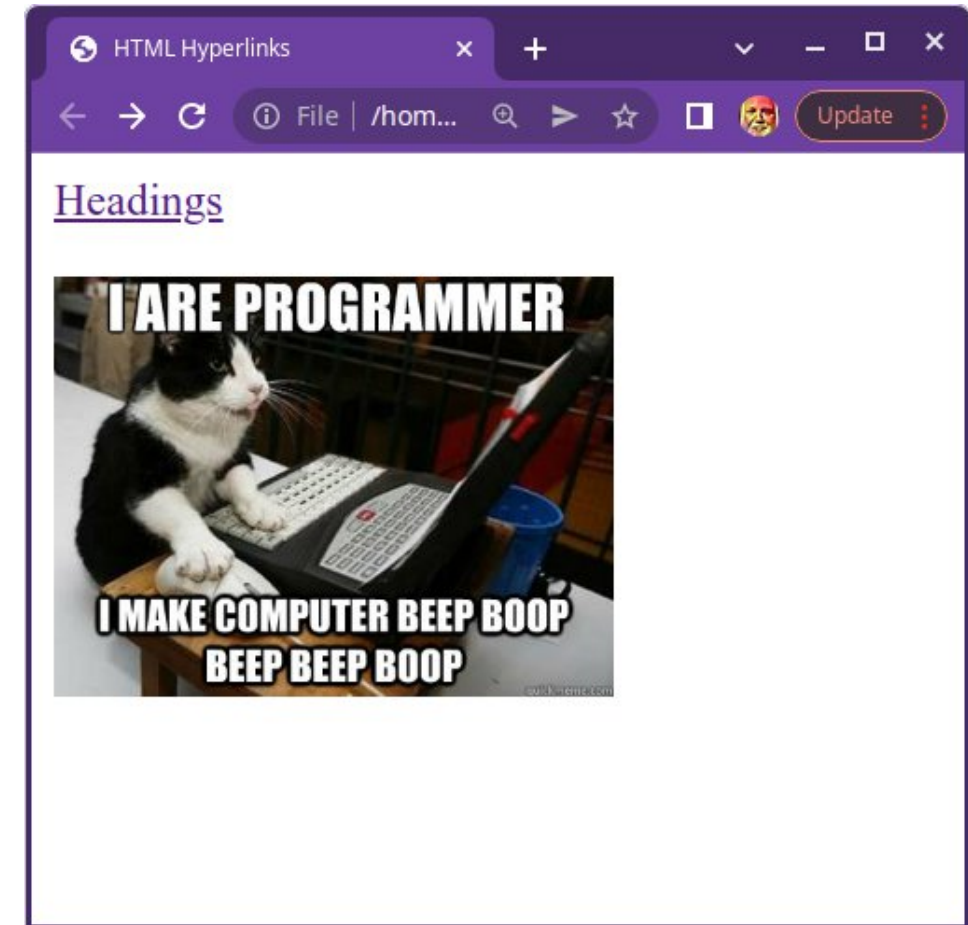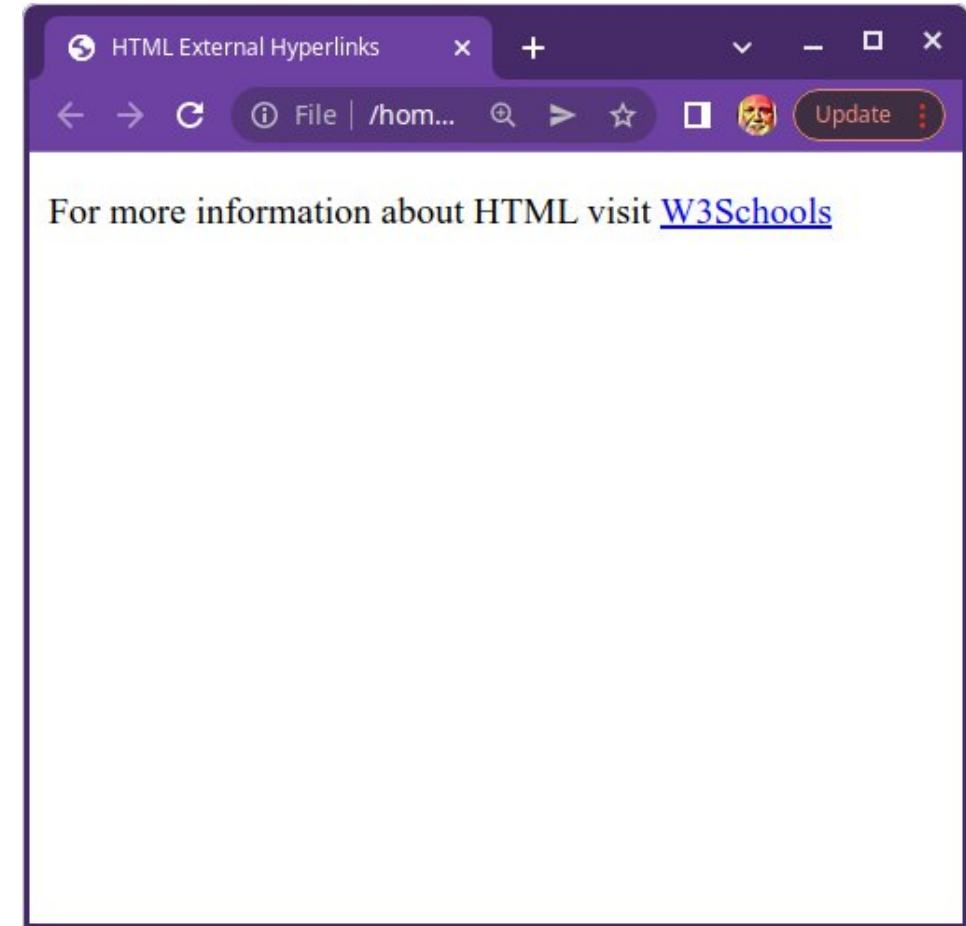
Note: By default, a hyperlink changes colour once it has been used.

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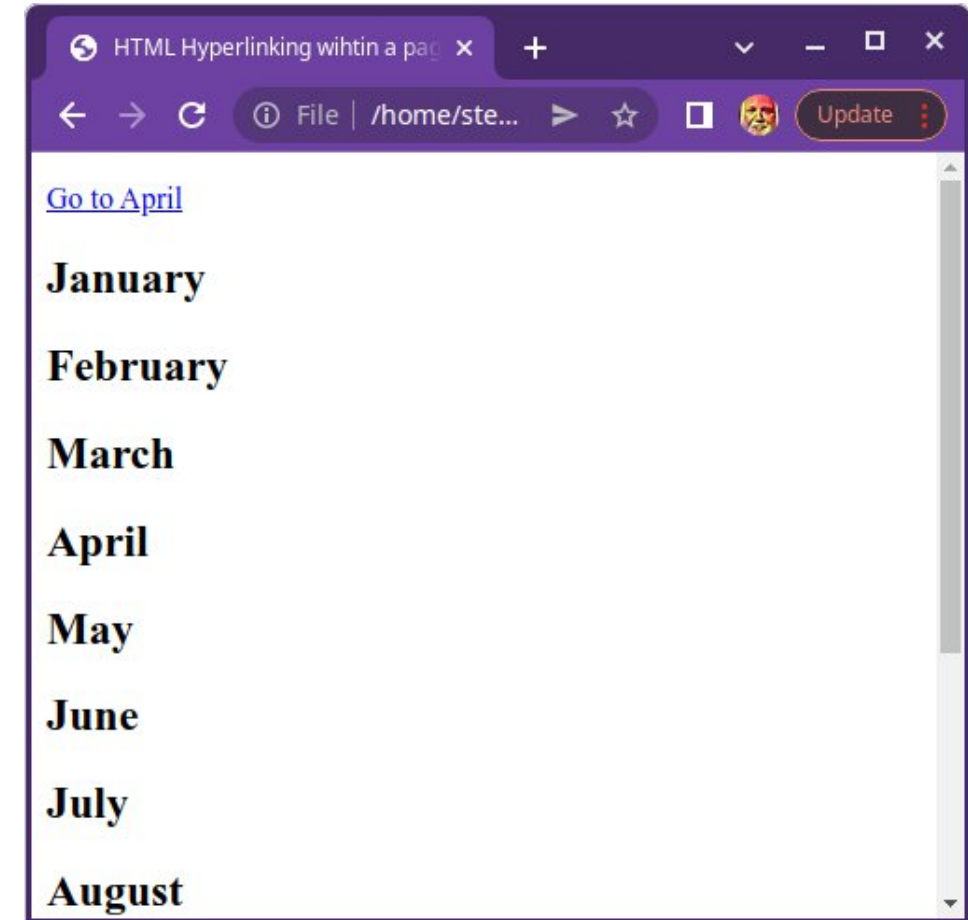
```
<p>For more information about HTML visit
<a href="https://www.w3schools.com/html/">
W3Schools</a>
</p>
```

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

HTML hyperlinks

```html
<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>
```
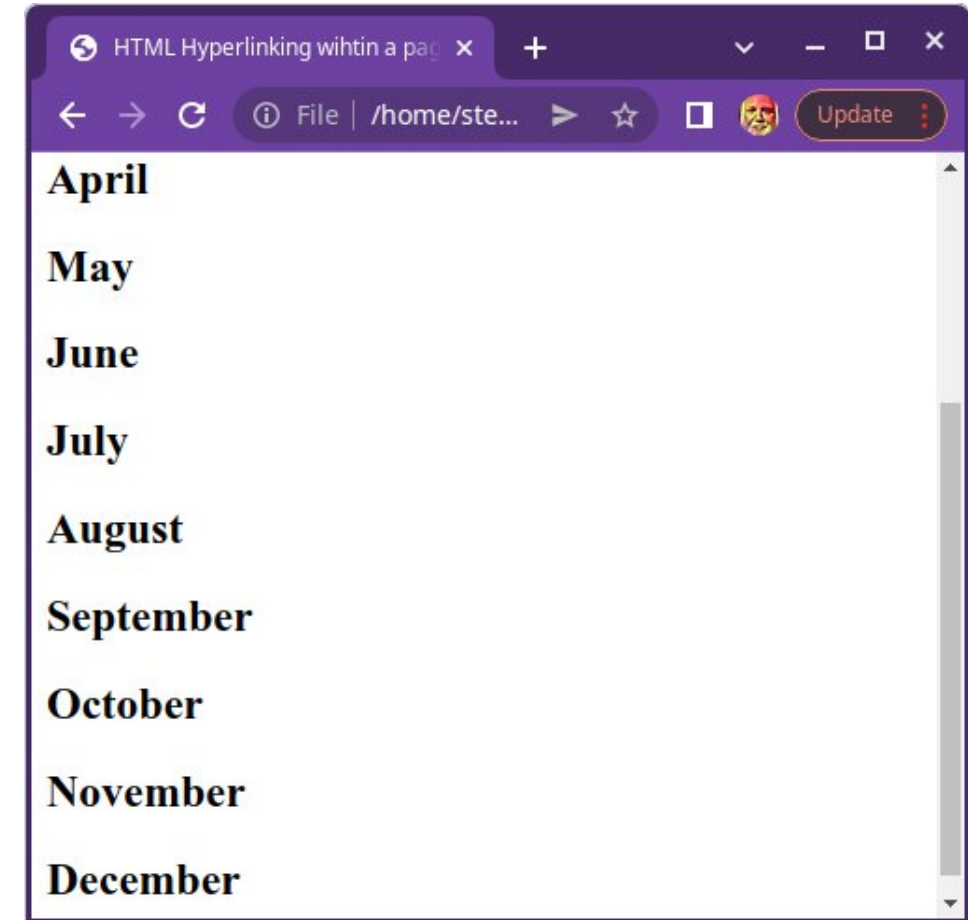
HTML hyperlinks

To link to a section of another web page:

**
Wikipedia: Inline HTML Elements**

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HTML ordered lists

```
<ol>

    <li>North</li>
    <li>South</li>
    <li>East</li>
    <li>West</li>

</ol>
```
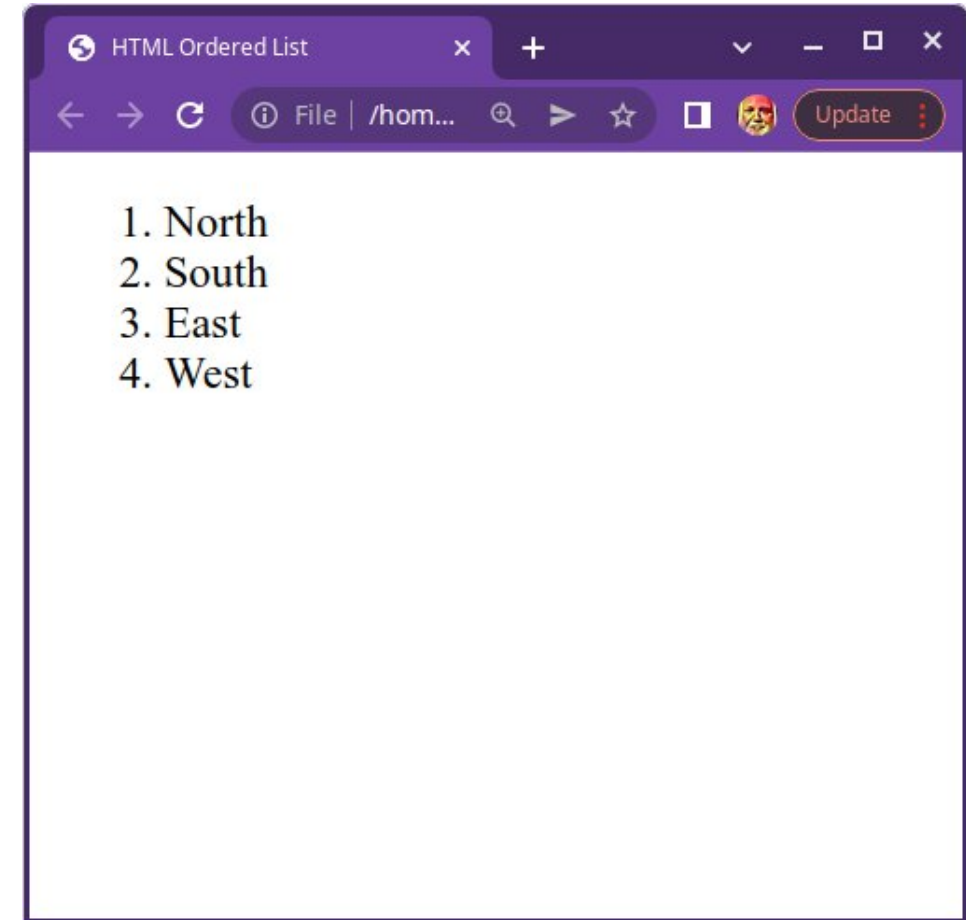
Note: Use tabs to indent your code to increase readability by making it clear what contains what
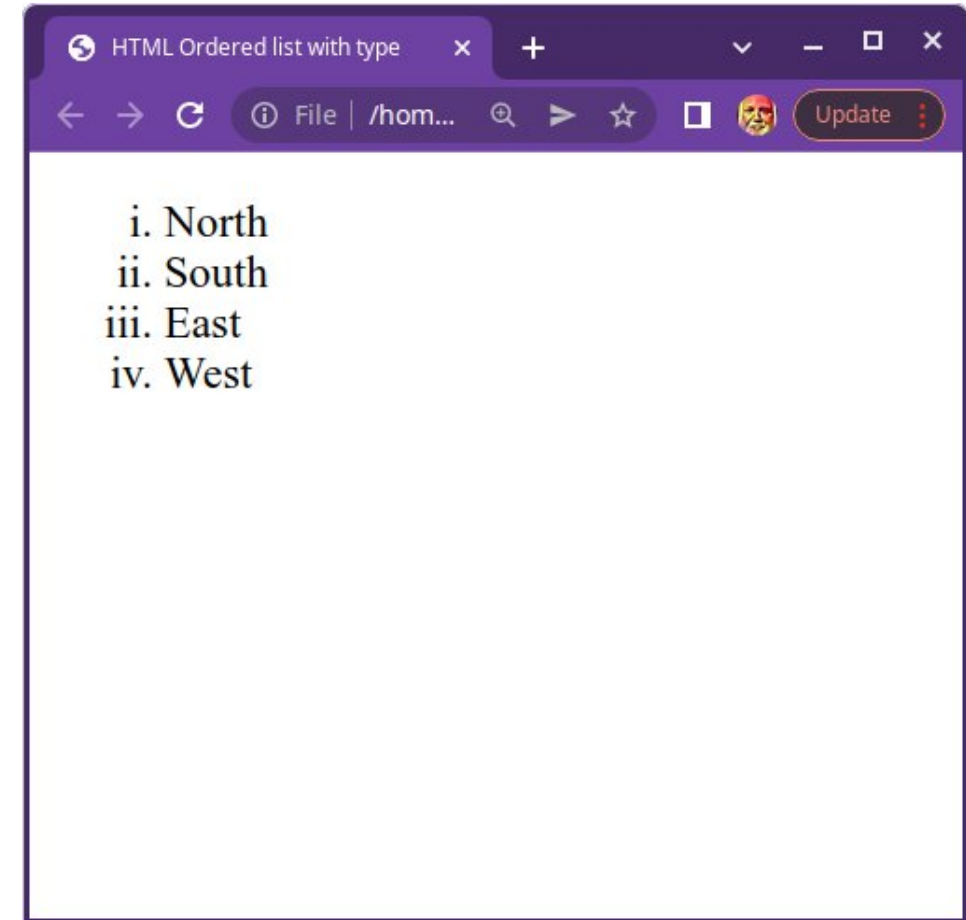
HTML ordered list types

```
<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

HTML Ordered list with type

i. North
ii. South
iii. East
iv. West

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HTML unordered lists

```
<ul>
        <li>North</li>
        <li>South</li>
        <li>East</li>
        <li>West</li>
</ul>
```
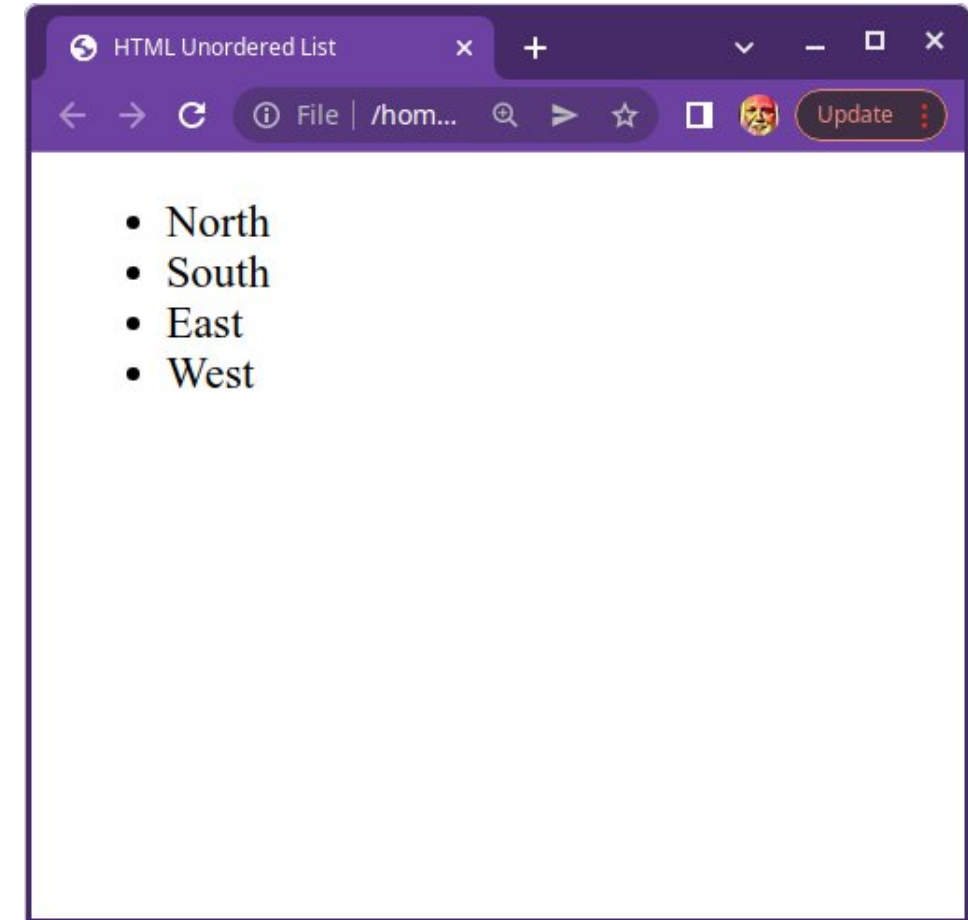
HTML nested lists

```
<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>
```
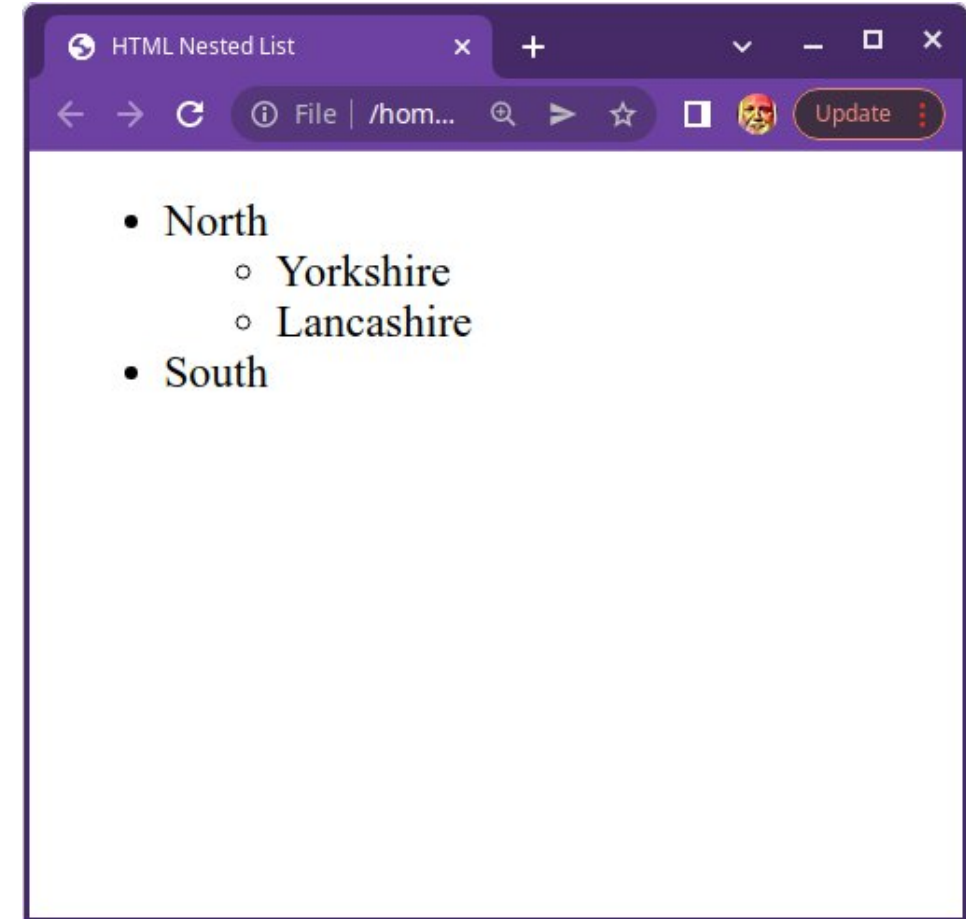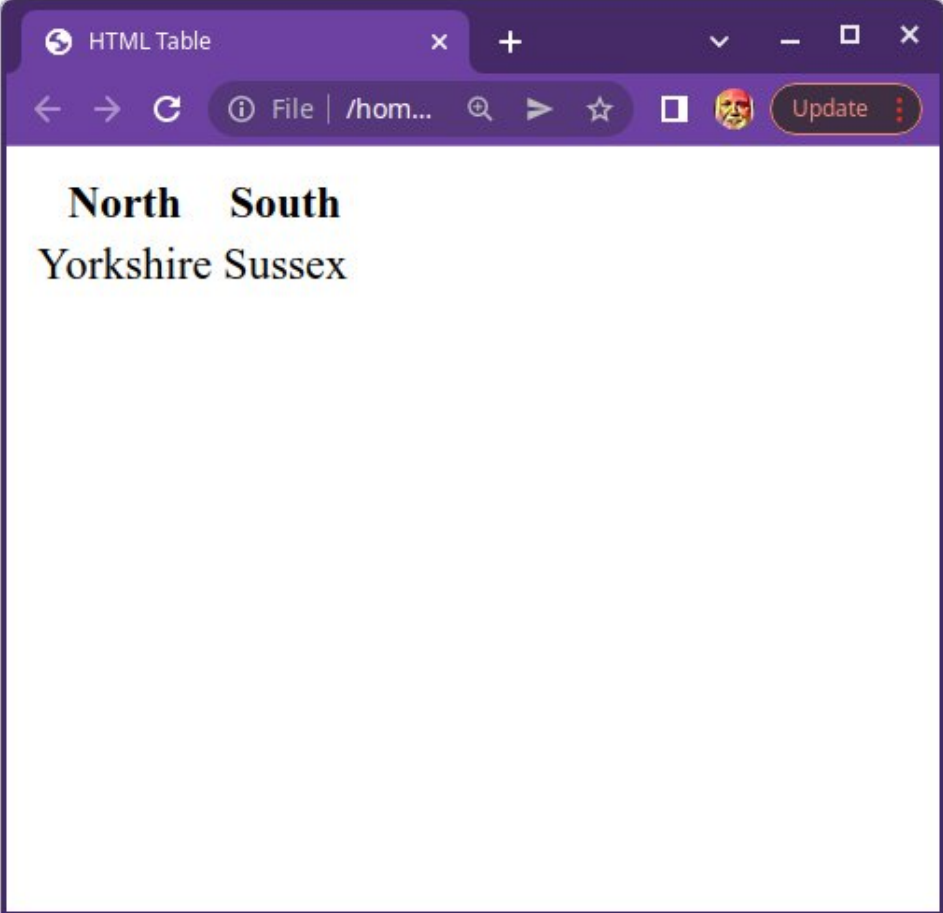
Note: Use CSS to add borders and colours

HTML Table

North   South
Yorkshire Sussex

HTML entities

`<p>Kevin says, "Use entities for > & <."</p>`

`<p>Other entities include...`

`<ul>`

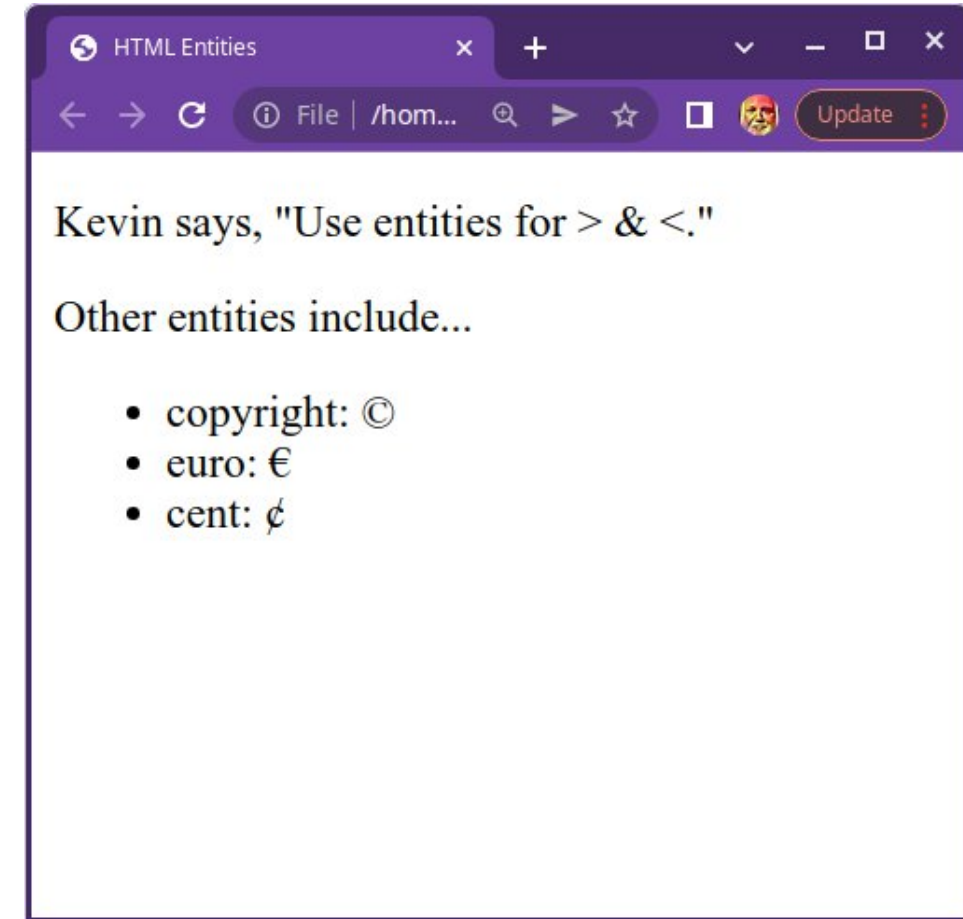   `<li>copyright: ©</li>`

    `<li>euro: €</li>`

    `<li>cent: ¢</li>`

`</ul></p>`

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

Kevin says, "Use entities for > & <."

Other entities include...

- copyright: ©
- euro: €
- cent: ¢

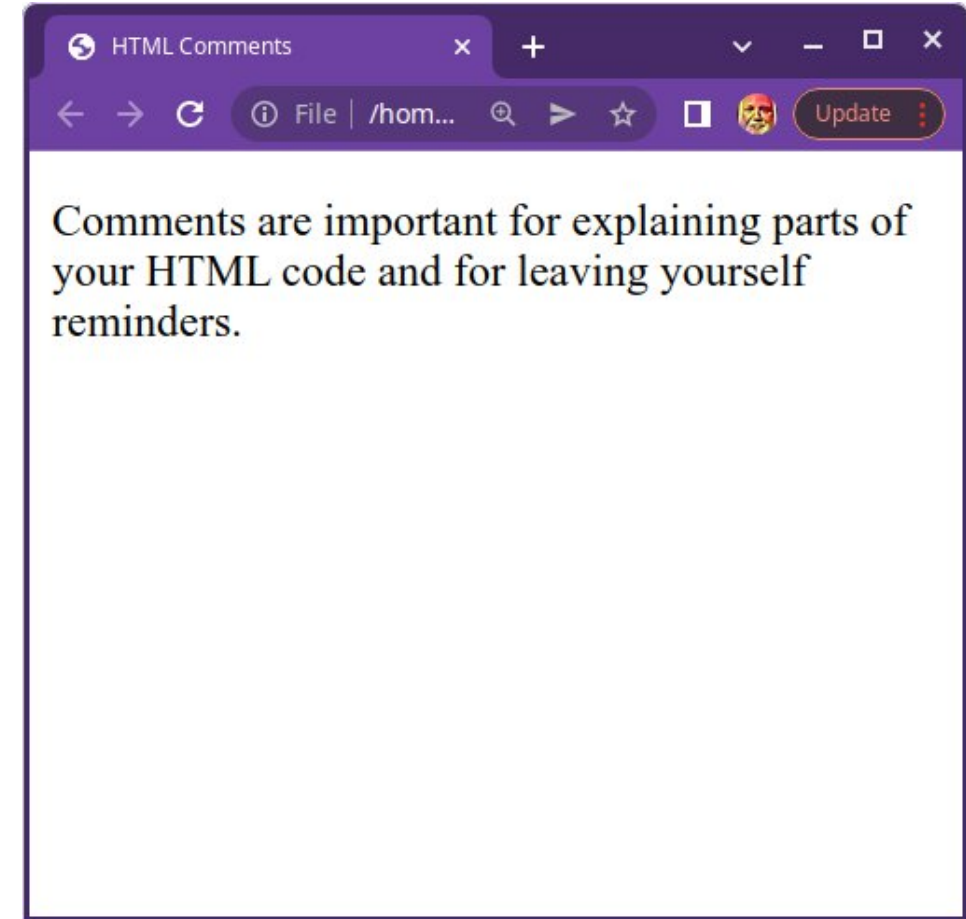# HTML comments

<!-- This is a comment -->

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

Task

- Create a web page called **index.html** that details
    - Your previous IT experience
    - Why you are doing this course
    - What you hope to gain from this course
    - Use headers, text formatting, paragraphs and images

- Create a second web page called **links.html** that contains a list or table containing hyperlinks to useful websites
    - Include hyperlinks to navigate between your two pages

- Make use of the html examples that I have provided

Task

- [Upload your web pages to GitHub](#)
- Deploy them to GitHub Pages
- Share a link to your web site on Slack

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)

Session Wrap up