



HTML

Module 4



MODULE OVERVIEW



- An Introduction to HTML
- Headings
- Links and images
- File paths
- HTML tables
- Structural elements
- Lists
- Entities

Exercise

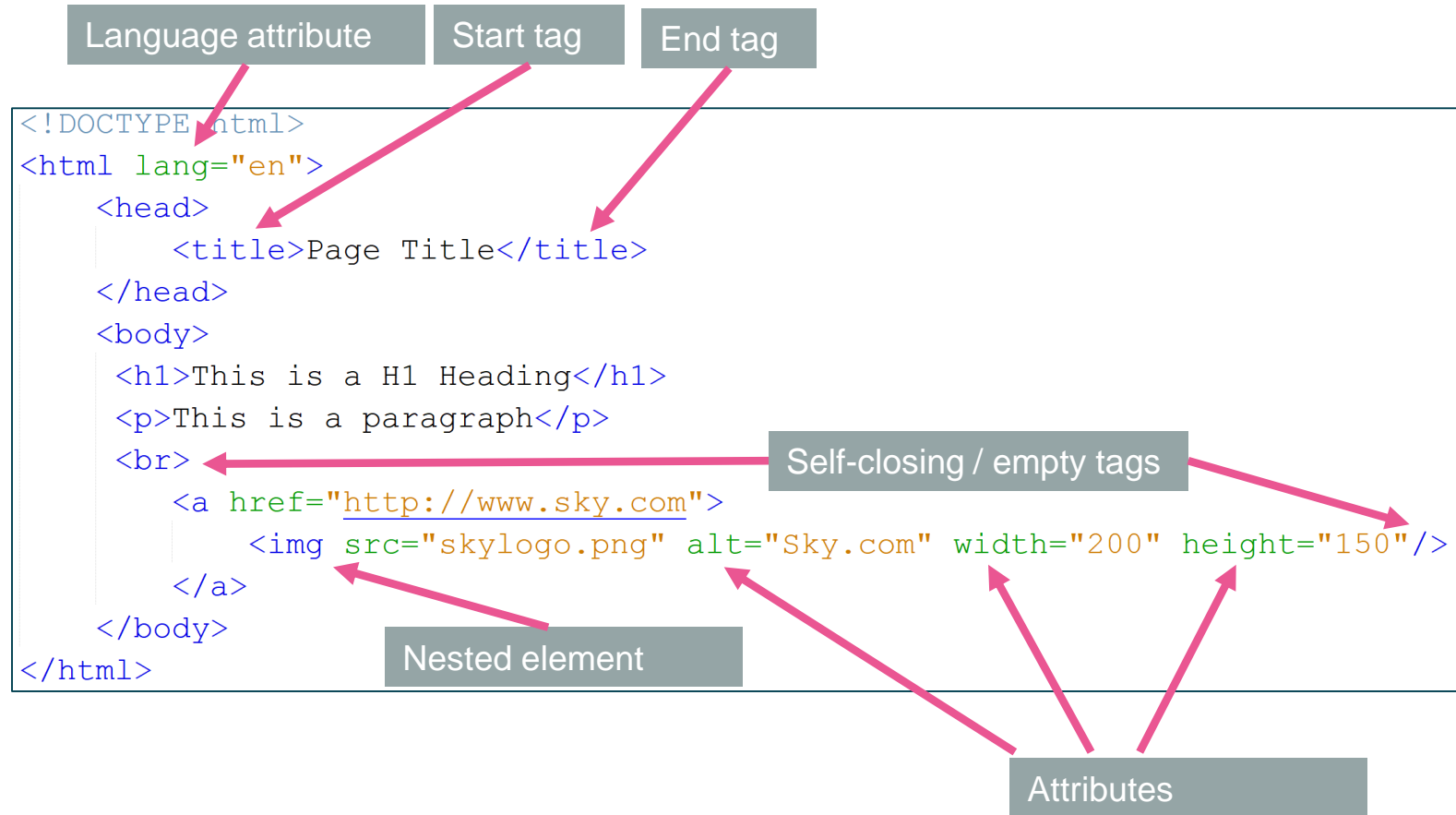
Create html pages using basic tags, structural tags, tables, lists, links, comments, entities and images

A Simple HTML Page

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
  </body>
</html>
```



Elements and Attributes



Headings

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>This is a H1 Heading</h1>
    <h2>This is a H2 Heading</h2>
    <h3>This is a H3 Heading</h3>
    <h4>This is a H4 Heading</h4>
    <h5>This is a H6 Heading</h5>
    <h6>This is a H6 Heading</h6>
  </body>
</html>
```

This is a H1 Heading

This is a H2 Heading

This is a H3 Heading

This is a H4 Heading

This is a H6 Heading

This is a H6 Heading

Links and Images

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <a href="http://www.sky.com">This is a link</a>
    

    <a href="http://www.sky.com">
      
    </a>

  </body>
</html>
```



[This is a link](http://www.sky.com)

HTML File Paths

File Path	Description
<code></code>	Logo.png is located in the same folder as the current page
<code></code>	Logo.png is located in the images folder located in the current folder
<code></code>	Logo.png is located in the images folder located at the root of the current web
<code></code>	Logo.png is located in the folder one level up from the current folder

Image Types

JPEG / JPG



GIF



PNG



Tables

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>HTML Tables</title>
  </head>
  <body>
    <h1>This is a Table</h1>
    <table>
      <tr>
        <th>Firstname</th>
        <th>Lastname</th>
        <th>Age</th>
      </tr>
      <tr>
        <td>Jane</td>
        <td>Doe</td>
        <td>30</td>
      </tr>
      <tr>
        <td>Jo</td>
        <td>Bloggs</td>
        <td>94</td>
      </tr>
    </table>
  </body>
```

This is a Table

Firstname	Lastname	Age
Jane	Doe	30
Joe	Bloggs	94

<tr>	Table Row
<th>	Table Header
<td>	Table Data

Complex Tables: Vertical

```
<table border="1">
  <tr><th rowspan="3">Spring </th>
  <td>March</td></tr>
  <tr><td>April</td> </tr>
  <tr><td>May</td></tr>
  <tr><th rowspan="3">Summer</th>
  <td>June</td></tr>
  <tr><td>July</td></tr>
  <tr><td>August</td></tr>
  <tr><th rowspan="3">Autumn</th>
  <td>September</td></tr>
  <tr><td>October</td></tr>
  <tr><td>November</td></tr>
  <tr><th rowspan="3">Winter</th>
  <td>December</td></tr>
  <tr><td>January</td></tr>
  <tr><td>February</td></tr>
</table>
```




Seasons

Spring	March
	April
	May
Summer	June
	July
	August
Autumn	September
	October
	November
Winter	December
	January
	February

Complex Tables: Horizontal

```
<table border="1">
  <tr>
    <th colspan="3">Spring </th>
    <th colspan="3">Summer</th>
    <th colspan="3">Autumn</th>
    <th colspan="3">Winter</th>
  </tr>
  <tr>
    <td>March</td>
    <td>April</td>
    <td>May</td>
    <td>June</td>
    <td>July</td>
    <td>August</td>
    <td>September</td>
    <td>October</td>
    <td>November</td>
    <td>December</td>
    <td>January</td>
    <td>February</td>
  </tr>
</table>
```

Seasons



Spring			Summer			Autumn			Winter		
March	April	May	June	July	August	September	October	November	December	January	February

Comments

```
<body>
  <h3>Comments</h3>
  <h4>Regular Comments</h4>
  <!-- This is a regular comment -->
  <h4>Conditional Comments</h4>
  <!-- The below is a conditional comment -->
  <!--[if IE 9]>
  .... some HTML here ....
  .... used to specify HTML tags for Internet Explorer only
  <![endif]-->
</body>
```

Block and Inline Elements

```
<body>
  <div style="background-color:#ea5692;color:white;padding:20px;">
<h3>Block-level elements</h3>
<p>A div (division) is a block-level element.</p>
<p>It acts like a container for other elements.</p>
<p>Other block-level elements include the heading tags
    and paragraph tags.</p>
  </div>
<h3>Inline elements</h3>
<p>A span is an <span style="color:red">inline</span> element</p>
<p>Other inline elements include image and anchor tags.</p>
<h3>Both divs and spans are used to style areas of a web page</h3>
</body>
```

Block-level elements

A div (division) is a block-level element.

It acts like a container for other elements.

Other block-level elements include the heading tags and paragraph tags.

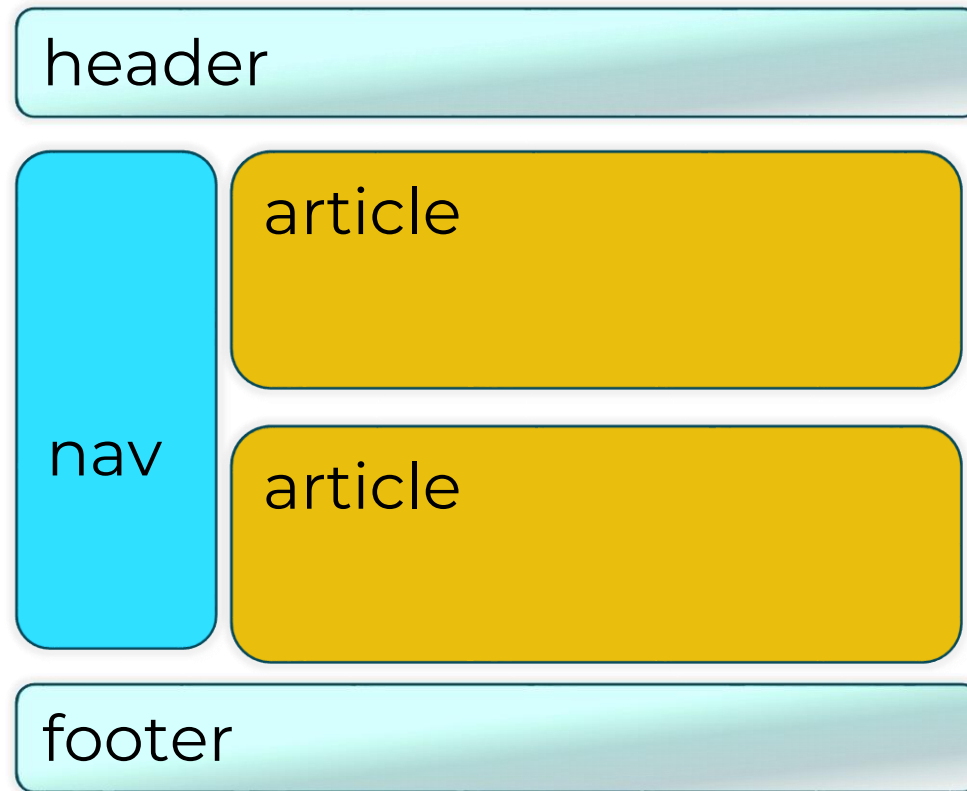
Inline elements

A span is an **inline** element

Other inline elements include image and anchor tags.

Both divs and spans are used to style areas of a web page

Structural Elements



Lists

```
<h2>An Unordered HTML List</h2>
<ul>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ul>

<h2>An Ordered HTML List</h2>
<ol>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ol>
```

 Unordered list
 Ordered list
 List item



An Unordered HTML List

- Item 1
- Item 2
- Item 3

An Ordered HTML List

1. Item 1
2. Item 2
3. Item 3

Lists: Description and Nested

```
<h2>A Description HTML List</h2>
<dl>
  <dt>Item 1</dt>
  <dd>- a description of item 1</dd>
  <dt>Item 2</dt>
  <dd>- a description of item 2</dd>
</dl>
<h2>A Nested HTML List</h2>
<ul>
  <li>Item 1</li>
  <li>Item 2
    <ul>
      <li>Sub-item A</li>
      <li>Sub-item B</li>
    </ul>
  </li>
  <li>Item 3</li>
</ul>
```

<dl> Description list
<dt> Description term
<dd> Description data

A Description HTML List

Item 1
- a description of item 1
Item 2
- a description of item 2

A Nested HTML List

- Item 1
- Item 2
 - Sub-item A
 - Sub-item B
- Item 3

Entities

Character	Entity Name	Entity#	Description
	 	 	Inserts a non-breaking space
<	<	<	Less than
>	>	>	Greater than
©	©	©	Copyright
&	&	&	Ampersand

Any questions?





Activity: Exercise 4

RESOURCES

Entity Character Codes:

www.entitycode.com

HTML Tutorial:

<https://www.w3schools.com/html/default.asp>

