

# Introduction to Web Technology

## HTML

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# HTML

## Objectives:

- learn the HTML language to create web site;
- understand the concept of HTML tags and attributes;
- use HTML tags to format text, add graphics, create links, display tables, lists, etc.

# HTML

- is a markup language for describing web documents

used to mark parts of documents to indicate  
how they should appear on a display

- HTML stands for **H**yper **T**ext **M**arkup **L**anguage
- HTML documents are described by **HTML tags**
- Each HTML tag describes different document content

# The first HTML document

```
<html>
```

```
  <head>
```

```
    <title>Hi</title>
```

```
  </head>
```

```
  <body>
```

```
    Hello World!
```

```
  </body>
```

```
</html>
```

# The first HTML document

```
<html>
```

```
  <head>
```

```
    <title>Hi</title>
```

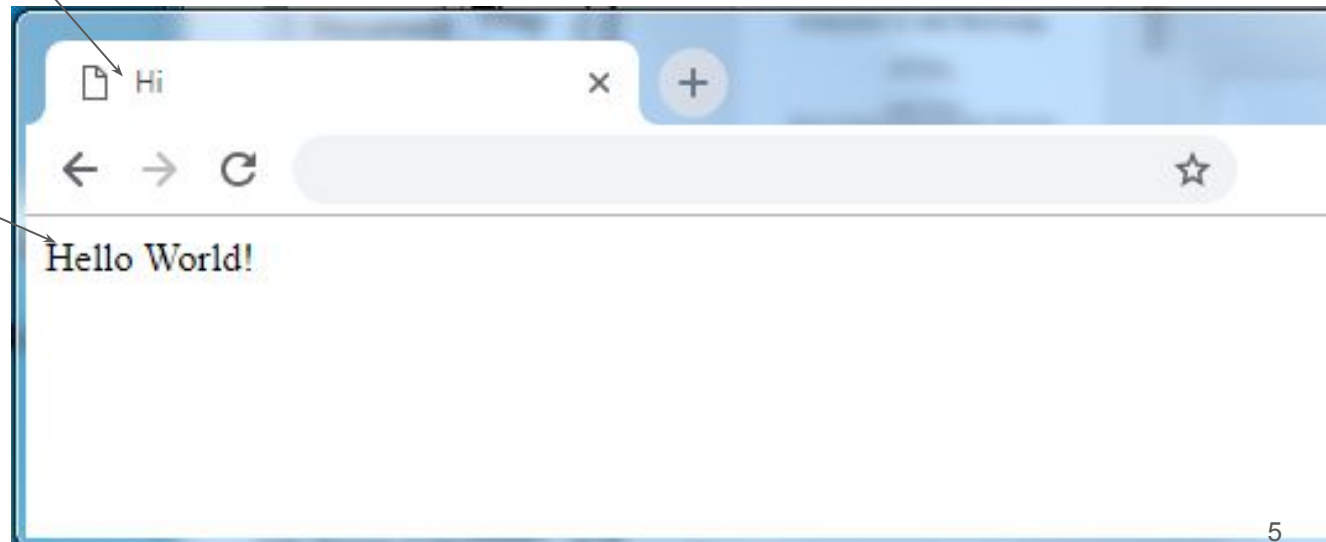
```
  </head>
```

```
  <body>
```

```
    Hello World!
```

```
  </body>
```

```
</html>
```



# HTML document structure

```
<html>
```

```
<head>
```

```
<title>Hi</title>
```

```
</head>
```

```
<body>
```

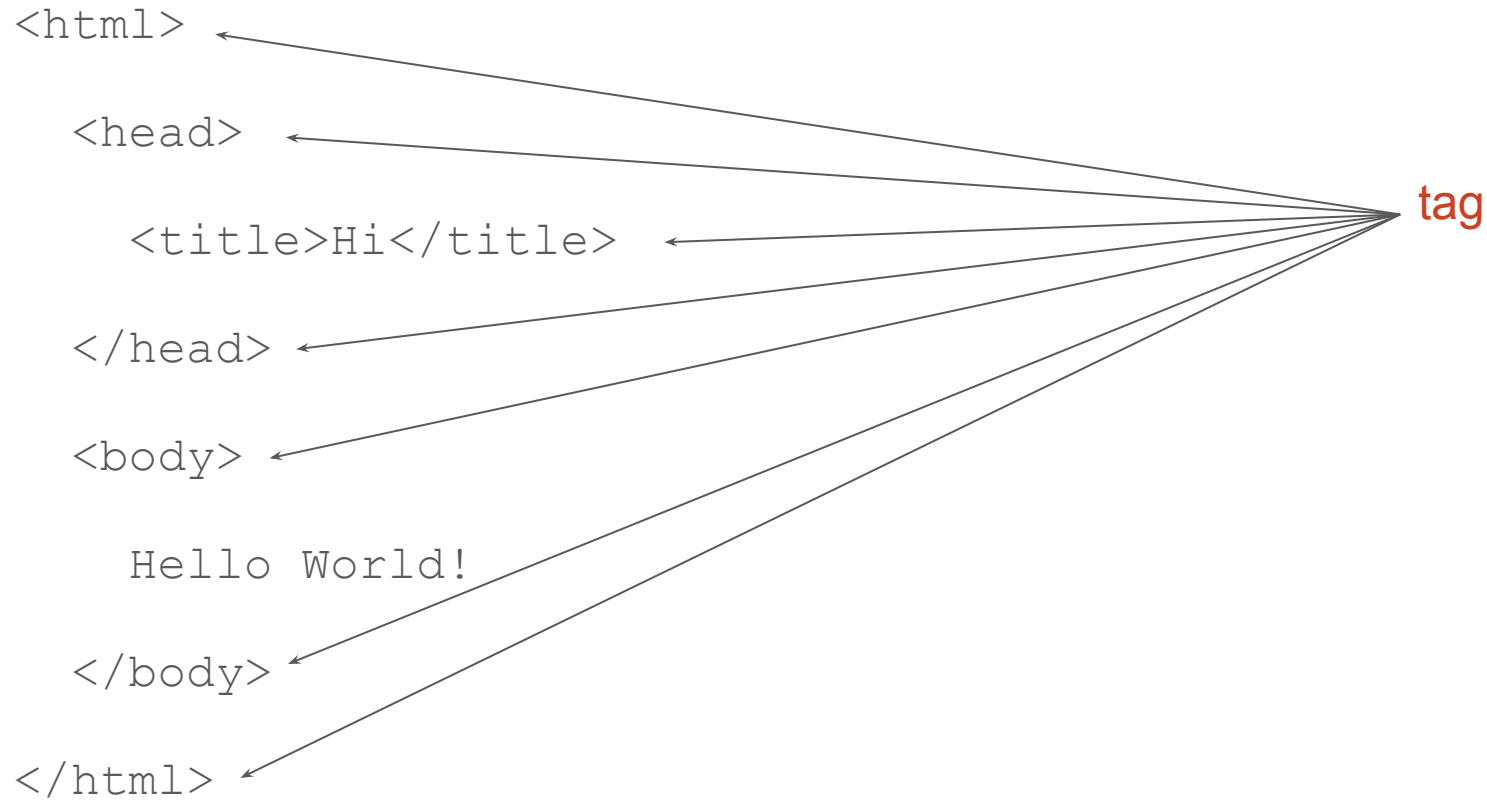
```
Hello World!
```

```
</body>
```

```
</html>
```

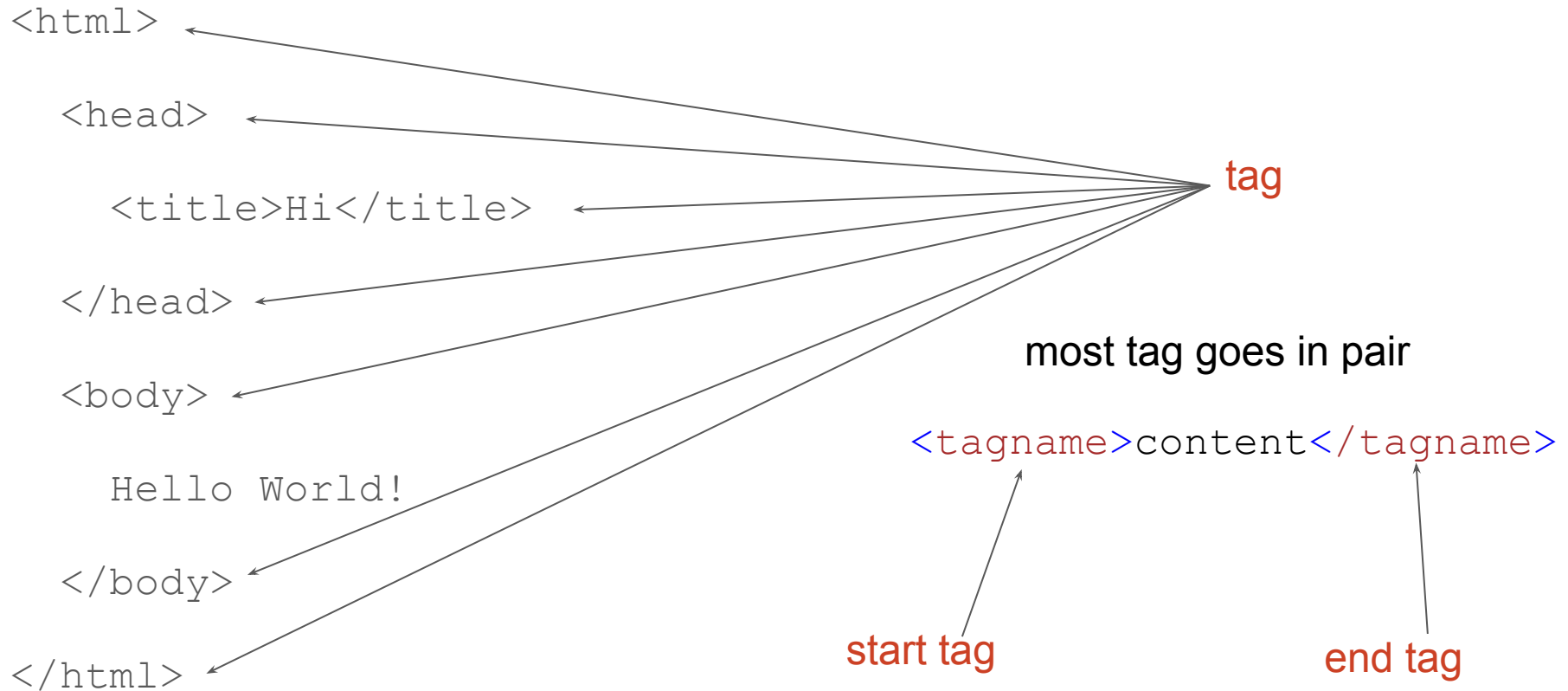
- A HTML document starts with **<html>** and ends with **</html>**
- A HTML document has a **head** and a **body**
- The visible part of the HTML document is between **<body>** and **</body>**

# HTML tags



# HTML tags

tags are **NOT** case sensitive





# HTML tags

HTML **documents** are made up by HTML **elements**.

The HTML **element** is everything *from the start tag to the end tag*.

```
<html>
```

```
<head>
```

```
<title>Hi</title>
```

```
</head>
```

```
<body>
```

```
Hello World!
```

```
</body>
```

```
</html>
```

Where is the HTML element?

Where is the HEAD element?

Where is the BODY element?

Where is the TITLE element?

What elements does the HTML element contain?

# Self-closing tag

`<tagname></tagname>`

- Sometime we have an element with no content (**an empty element**)
- With an empty element, we can combine the start-tag and end-tag into

one **self-closing tag**: `<tagname />`

- Example:
  - `<br />` tag defines a **line break**
  - `<hr />` tag defines a **horizontal line**
  - `` tag defines an **image**

# Tag attributes

```
<tagname attribute1="value1" attribute2="value2">  
  ...  
</tagname>
```

- HTML elements can have **attributes**
- Attributes provide **additional information** about an element
- Attributes are always specified in **the start tag**
- Attributes come in name/value pairs like: **name="value"**

# Heading tags

```
<body>
```

```
<h1>Heading 1</h1>
```

```
<h2>Heading 2</h2>
```

```
<h3>Heading 3</h3>
```

```
<h6>Heading 6</h6>
```

```
Normal text...
```

```
</body>
```

Heading tags: **<h1>**, **<h2>**, ..., **<h6>**

**<h1>** the most important heading

**<h6>** the least important heading

# Unordered List

My timetable:

`<ul>`

`<li>MATH222: Mon 8:30-10:30 lecture</li>`

`<li>CSCI204: Tue 9:30-11:30 lab</li>`

`<li>ISIT206: Wed 8:30-10:30 lecture</li>`

`</ul>`

My timetable:

- MATH222: Mon 8:30-10:30 lecture
- CSCI204: Tue 9:30-11:30 lab
- ISIT206: Wed 8:30-10:30 lecture

# Unordered List

Unordered List

My timetable:

<ul>

List Item

<li>MATH222: Mon 8:30-10:30 lecture</li>

<li>CSCI204: Tue 9:30-11:30 lab</li>

<li>ISIT206: Wed 8:30-10:30 lecture</li>

</ul>

My timetable:

- MATH222: Mon 8:30-10:30 lecture
- CSCI204: Tue 9:30-11:30 lab
- ISIT206: Wed 8:30-10:30 lecture

# Ordered List

My timetable:

`<ol>`

`<li>MATH222: Mon 8:30-10:30 lecture</li>`

`<li>CSCI204: Tue 9:30-11:30 lab</li>`

`<li>ISIT206: Wed 8:30-10:30 lecture</li>`

`</ol>`

My timetable:

1. MATH222: Mon 8:30-10:30 lecture
2. CSCI204: Tue 9:30-11:30 lab
3. ISIT206: Wed 8:30-10:30 lecture

# Ordered List

My timetable:

`<ol>`

Ordered List

List Item

`<li>MATH222: Mon 8:30-10:30 lecture</li>`

`<li>CSCI204: Tue 9:30-11:30 lab</li>`

`<li>ISIT206: Wed 8:30-10:30 lecture</li>`

`</ol>`

My timetable:

1. MATH222: Mon 8:30-10:30 lecture
2. CSCI204: Tue 9:30-11:30 lab
3. ISIT206: Wed 8:30-10:30 lecture



# Description List

My timetable:

**<dl>**

**<dt>**MATH222**</dt>**

**<dd>**Mon 8:30-10:30 lecture**</dd>**

**<dt>**CSCI204**</dt>**

**<dd>**Tue 9:30-11:30 lab**</dd>**

**<dt>**ISIT206**</dt>**

**<dd>**Wed 8:30-10:30 lecture**</dd>**

**</dl>**

My timetable:

MATH222

Mon 8:30-10:30 lecture

CSCI204

Tue 9:30-11:30 lab

ISIT206

Wed 8:30-10:30 lecture

# Description List

My timetable:

<dl>

<dt>MATH222</dt>

<dd>Mon 8:30-10:30 lecture</dd>

<dt>CSCI204</dt>

<dd>Tue 9:30-11:30 lab</dd>

<dt>ISIT206</dt>

<dd>Wed 8:30-10:30 lecture</dd>

</dl>

Description List

Description Term

Description Definition

My timetable:

MATH222

Mon 8:30-10:30 lecture

CSCI204

Tue 9:30-11:30 lab

ISIT206

Wed 8:30-10:30 lecture

# Formatting text

`<i>italic text</i> <br />`

`<b>bold text</b> <br />`

`<mark>highlighted text</mark> <br />`

`<del>deleted text</del> <br />`

`<ins>inserted text</ins>`

*italic text*

**bold text**

**highlighted text**

~~deleted text~~

inserted text

# Formatting text

`<ins>My timetable:</ins>`

`<ul>`

`<li><b>MATH222</b>: Mon 8:30-10:30 <i>lecture</i></li>`

`<li><b>CSCI204</b>: Tue 9:30-11:30 <i>lab</i></li>`

`<li><b>ISIT206</b>: Wed 8:30-10:30 <i>lecture</i></li>`

`</ul>`

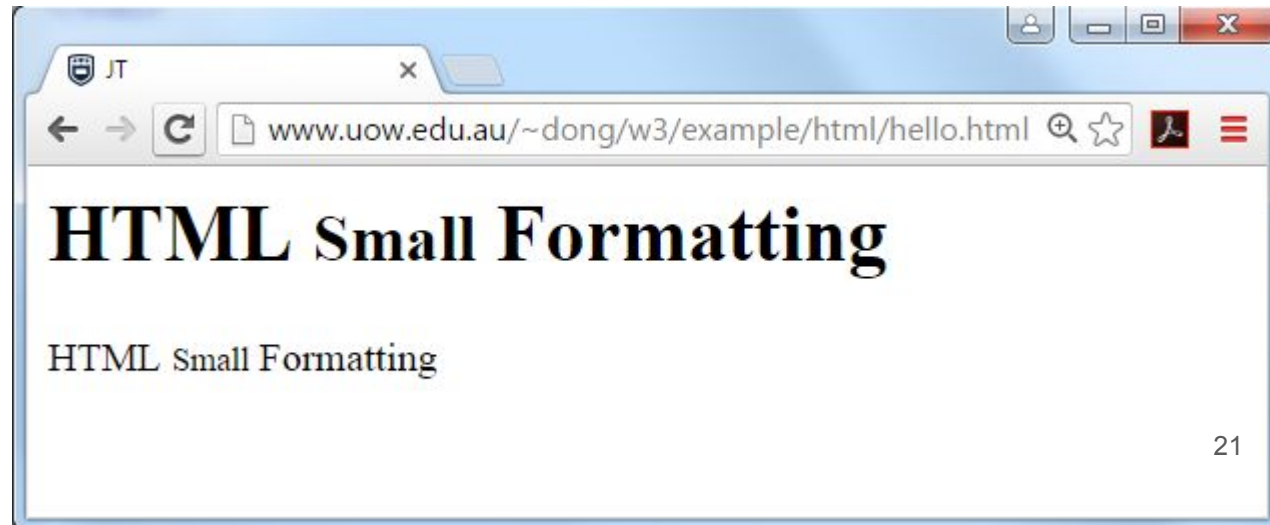
## My timetable:

- **MATH222:** Mon 8:30-10:30 *lecture*
- **CSCI204:** Tue 9:30-11:30 *lab*
- **ISIT206:** Wed 8:30-10:30 *lecture*

# Formatting text

```
<h1>HTML <small>Small</small> Formatting</h1>
```

```
HTML <small>Small</small> Formatting
```



# Formatting text

## Changing font

`<font size="1">This is the smallest size</font>`

`<font size="2">smaller than the default</font>`

`<font size="3">This is the default font size</font>`

`<font size="4">larger than the default</font>`

`<font size="5">larger than the default</font>`

`<font size="6" color="red">larger than the default</font>`

`<font size="7" color="blue">This is the largest size</font>`

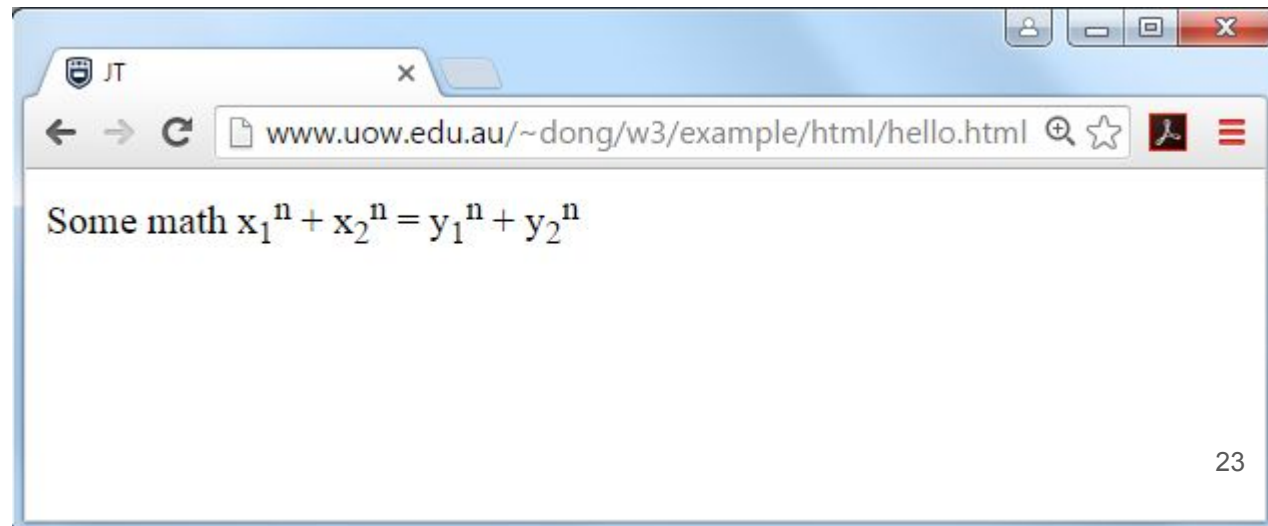
# Formatting text

<body>

Some math

$x_1^n + x_2^n = y_1^n + y_2^n$

</body>



# Table

*border attribute*

```
<table border="1">
  <tr>
    <th>Username</th>
    <th>First name</th>
    <th>Last name</th>
  </tr>
  <tr>
    <td>jsmith</td>
    <td>John</td>
    <td>Smith</td>
  </tr>
  <tr>
    <td>mlee</td>
    <td>Mary</td>
    <td>Lee</td>
  </tr>
</table>
```

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

*Turn off the border:*

**border="0"**



Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee



# Table

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

```
<tr>
```

```
<th>Username</th>
```

```
<th>First name</th>
```

```
<th>Last name</th>
```

```
</tr>
```

```
<tr>
```

```
<td>jsmith</td>
```

```
<td>John</td>
```

```
<td>Smith</td>
```

```
</tr>
```

```
<tr>
```

```
<td>mlee</td>
```

```
<td>Mary</td>
```

```
<td>Lee</td>
```

```
</tr>
```

```
</table>
```

Table **R**ow

**row 1**

**row 2**

**row 3**

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

# Table

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

```
<tr>
```

```
<th>Username</th>
```

Table Header

```
<th>First name</th>
```

```
<th>Last name</th>
```

```
</tr>
```

```
<tr>
```

```
<td>jsmith</td>
```

Table Data

```
<td>John</td>
```

```
<td>Smith</td>
```

```
</tr>
```

```
<tr>
```

```
<td>mlee</td>
```

```
<td>Mary</td>
```

```
<td>Lee</td>
```

```
</tr>
```

```
</table>
```

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

# Table

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

```
<tr>
```

```
<td>jsmith</td>
```

```
<td>John</td>
```

```
<td>Smith</td>
```

```
</tr>
```

```
<tr>
```

```
<td>mlee</td>
```

```
<td>Mary</td>
```

```
<td>Lee</td>
```

```
</tr>
```

```
</table>
```

*Sometime we do not need  
table header*

Table Data

jsmith	John	Smith
mlee	Mary	Lee

# Table

```
<table border="1" width="50%">
  <caption>User information</caption>
  <tr>
    <th width="20%">Username</th>
    <th width="40%">First name</th>
    <th width="40%">Last name</th>
  </tr>
  <tr>
    <td align="center">jsmith</td>
    <td align="right">John</td>
    <td align="right">Smith</td>
  </tr>
  <tr>
    <td align="center">mlee</td>
    <td align="right">Mary</td>
    <td align="right">Lee</td>
  </tr>
</table>
```

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

# Table

```
<table border="1" width="50%">
  <caption>User information</caption>
  <tr>
    <th width="20%">Username</th>
    <th width="40%">First name</th>
    <th width="40%">Last name</th>
  </tr>
  <tr>
    <td align="center">jsmith</td>
    <td align="right">John</td>
    <td align="right">Smith</td>
  </tr>
  <tr>
    <td align="center">mlee</td>
    <td align="right">Mary</td>
    <td align="right">Lee</td>
  </tr>
</table>
```

Table caption

User information

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

# Table

```
<table border="1" width="50%">  
  <caption>User information</caption>  
  <tr>  
    <th width="20%">Username</th>  
    <th width="40%">First name</th>  
    <th width="40%">Last name</th>  
  </tr>  
  <tr>  
    <td align="center">jsmith</td>  
    <td align="right">John</td>  
    <td align="right">Smith</td>  
  </tr>  
  <tr>  
    <td align="center">mlee</td>  
    <td align="right">Mary</td>  
    <td align="right">Lee</td>  
  </tr>  
</table>
```

**Table width**  
within the page

**Column width**  
within the table

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

# Table

```
<table border="1">
  <caption>User information</caption>
  <tr>
    <th width="150px">Username</th>
    <th width="200px">First name</th>
    <th width="200px">Last name</th>
  </tr>
  <tr>
    <td align="center">jsmith</td>
    <td align="right">John</td>
    <td align="right">Smith</td>
  </tr>
  <tr>
    <td align="center">mlee</td>
    <td align="right">Mary</td>
    <td align="right">Lee</td>
  </tr>
</table>
```

**Column width**  
using pixels

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

# Table

```
<table border="1" width="50%">
  <caption>User information</caption>
  <tr>
    <th width="20%">Username</th>
    <th width="40%">First name</th>
    <th width="40%">Last name</th>
  </tr>
  <tr>
    <td align="center">jsmith</td>
    <td align="right">John</td>
    <td align="right">Smith</td>
  </tr>
  <tr>
    <td align="center">mlee</td>
    <td align="right">Mary</td>
    <td align="right">Lee</td>
  </tr>
</table>
```

Horizontal alignment

Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee



# Table

```
<table width="50%" border="1">
  <tr>
    <td valign="middle">jsmith</td>
    <td>
      John Smith <br />
      DOB: 23/01/2000 <br />
      Course code: 875
    </td>
  </tr>
  <tr>
    <td valign="middle">mlee</td>
    <td>
      Mary Lee <br />
      DOB: 15/04/2001 <br />
      Course code: 741
    </td>
  </tr>
</table>
```

**Vertical  
alignment**

jsmith	John Smith DOB: 23/01/2000 Course code: 875
mlee	Mary Lee DOB: 15/04/2001 Course code: 741

# Table

```
<table width="50%" border="1">
  <tr>
    <td valign="top">jsmith</td>
    <td>
      John Smith <br />
      DOB: 23/01/2000 <br />
      Course code: 875
    </td>
  </tr>
  <tr>
    <td valign="top">mlee</td>
    <td>
      Mary Lee <br />
      DOB: 15/04/2001 <br />
      Course code: 741
    </td>
  </tr>
</table>
```

**Vertical  
alignment**

jsmith	John Smith DOB: 23/01/2000 Course code: 875
mlee	Mary Lee DOB: 15/04/2001 Course code: 741

# Table

```
<table width="50%" border="1">
  <tr>
    <td valign="bottom">jsmith</td>
    <td>
      John Smith <br />
      DOB: 23/01/2000 <br />
      Course code: 875
    </td>
  </tr>
  <tr>
    <td valign="bottom">mlee</td>
    <td>
      Mary Lee <br />
      DOB: 15/04/2001 <br />
      Course code: 741
    </td>
  </tr>
</table>
```

**Vertical  
alignment**

jsmith	John Smith DOB: 23/01/2000 Course code: 875
mlee	Mary Lee DOB: 15/04/2001 Course code: 741

# Table

Column span

```
<table border="1" width="40%">
  <tr>
    <td colspan="2">STUDENT DETAILS</td>
  </tr>
  <tr>
    <td width="30%">STUDENT NAME</td>
    <td>John Lee</td>
  </tr>
  <tr>
    <td>STUDENT NUMBER</td>
    <td>1234567</td>
  </tr>
  <tr>
    <td>UOW EMAIL</td>
    <td>jlee@uowmail.edu.au</td>
  </tr>
</table>
```

STUDENT DETAILS	
STUDENT NAME	John Lee
STUDENT NUMBER	1234567
UOW EMAIL	jlee@uowmail.edu.au

# Table

## Row span

```
<table border="1" width="50%">
```

```
<tr>
  <td></td>
  <td>Monday</td>
  <td>Tuesday</td>
  <td>Wednesday</td>
</tr>
```

```
<tr>
  <td>8:30-9:30</td>
  <td rowspan="2">MATH 321 lecture</td>
  <td>INFO 104 lecture</td>
  <td>CS 222 lecture</td>
</tr>
```

```
<tr>
  <td>9:30-10:30</td>
  <td>CS 222 Lab</td>
  <td rowspan="2">MATH 321 tutorial</td>
</tr>
```

```
<tr>
  <td>10:30-11:30</td>
  <td>CS 222 lecture</td>
  <td>INFO 104 tutorial</td>
</tr>
```

```
</table>
```

	Monday	Tuesday	Wednesday
8:30-9:30	MATH 321 lecture	INFO 104 lecture	CS 222 lecture
9:30-10:30		CS 222 Lab	MATH 321 tutorial
10:30-11:30	CS 222 lecture	INFO 104 tutorial	

# Paragraph tag <p>

```
<p>This  is a paragraph</p>
```

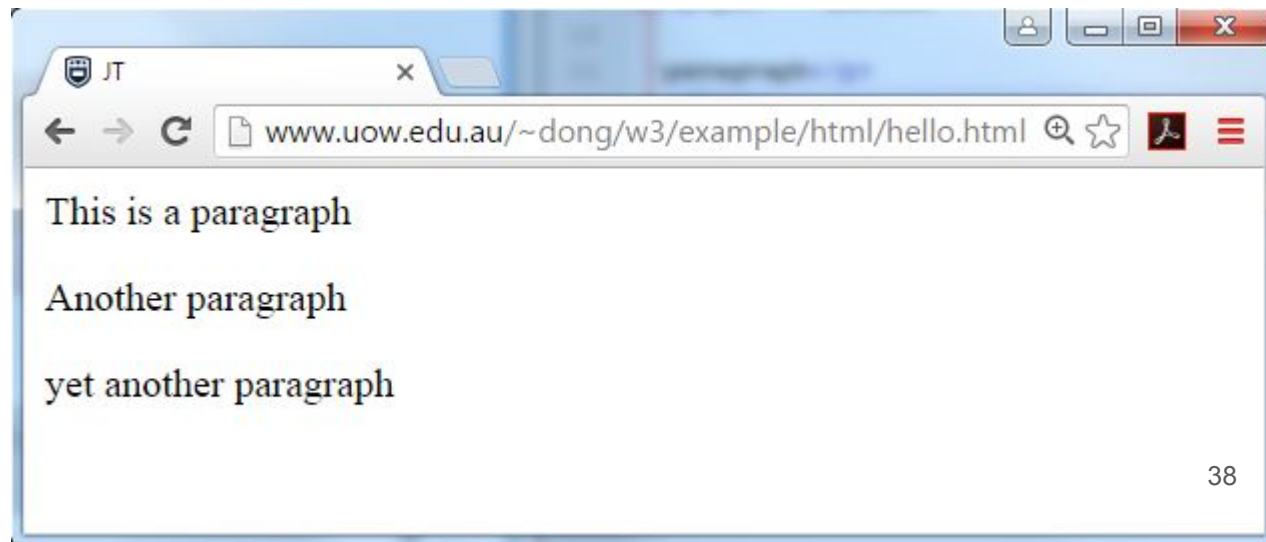
```
<p>Another
```

```
paragraph</p>
```

```
<p>yet    another
```

```
paragraph</p>
```

**Extra spaces and lines** will NOT  
be displayed in paragraph



# Line break <br />

```
<p>This is a paragraph</p>
```

```
<p>Another <br />
```

```
paragraph</p>
```

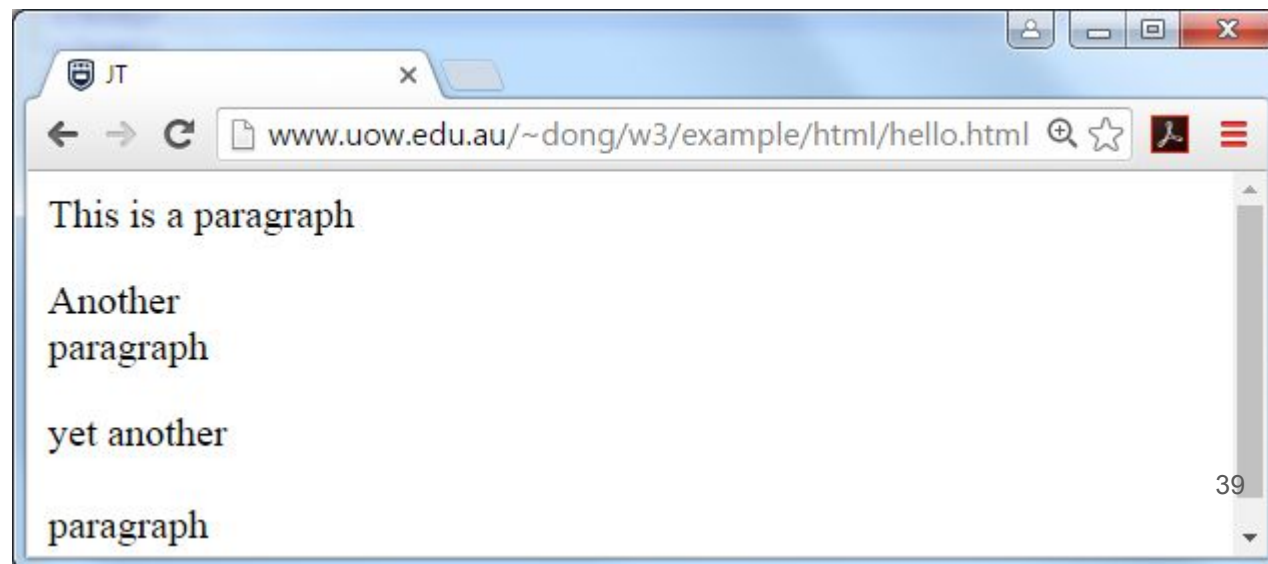
```
<p>yet another <br />
```

```
<br />
```

```
paragraph</p>
```

**<br />** tag defines a **line break**

**<br />** is an **empty element** (i.e. it is a tag with no content), it combines the start and end tags together



# Horizontal line <hr />

```
<p>This is a paragraph</p>
```

```
<p>Another <br />
```

```
paragraph</p>
```

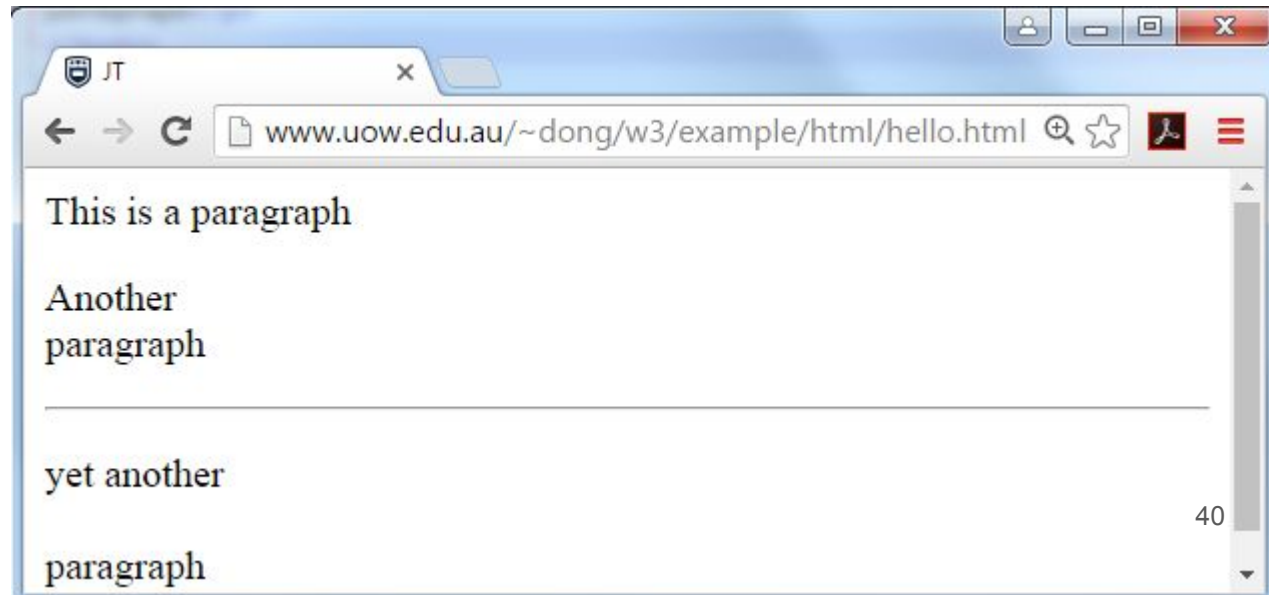
```
<hr />
```

```
<p>yet another <br />
```

```
<br />
```

```
paragraph</p>
```

similarly, we have the  
horizontal line tag **<hr />**  
with no content





# Non-breaking space &nbsp;

```
<p>This &nbsp;&nbsp; is a  
paragraph</p>
```

**use &nbsp;** for non-breaking space

```
<p>Another <br />  
paragraph</p>
```

this is an example of **character entities**

```
<hr />
```

```
<p>yet      another <br />
```

```
<br />
```

```
paragraph</p>
```

# Character entity

- Some characters are reserved in HTML.
- Reserved characters in HTML must be replaced with character entities.

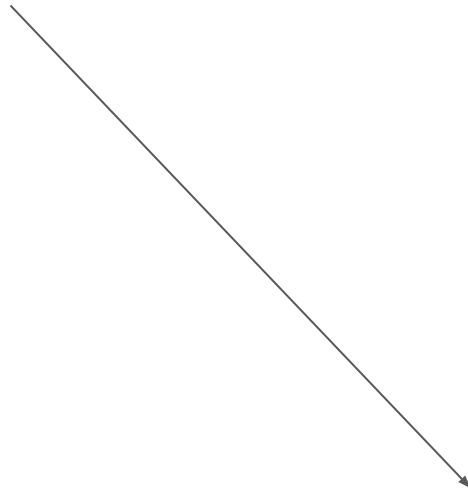
Character	Entity	Meaning
(non-breaking space)	<code>&amp;nbsp;</code>	Non-breaking space
<code>&lt;</code>	<code>&amp;lt;</code>	Is less than
<code>&gt;</code>	<code>&amp;gt;</code>	Is greater than
<code>&amp;</code>	<code>&amp;amp;</code>	Ampersand
<code>"</code>	<code>&amp;quot;</code>	Double quote
<code>'</code>	<code>&amp;apos;</code>	Single quote (apostrophe)
<code>°</code>	<code>&amp;deg;</code>	Degree
<code>©</code>	<code>&amp;copy;</code>	Copyright

# Character entity

`<body>`

A HTML document starts with  
`&lt;html&gt;` and ends with  
`&lt;/html&gt;`

`</body>`



A HTML document starts with `<html>`  
and ends with `</html>`

# Block quotations <blockquote>

```
<p>normal paragraph</p>
```

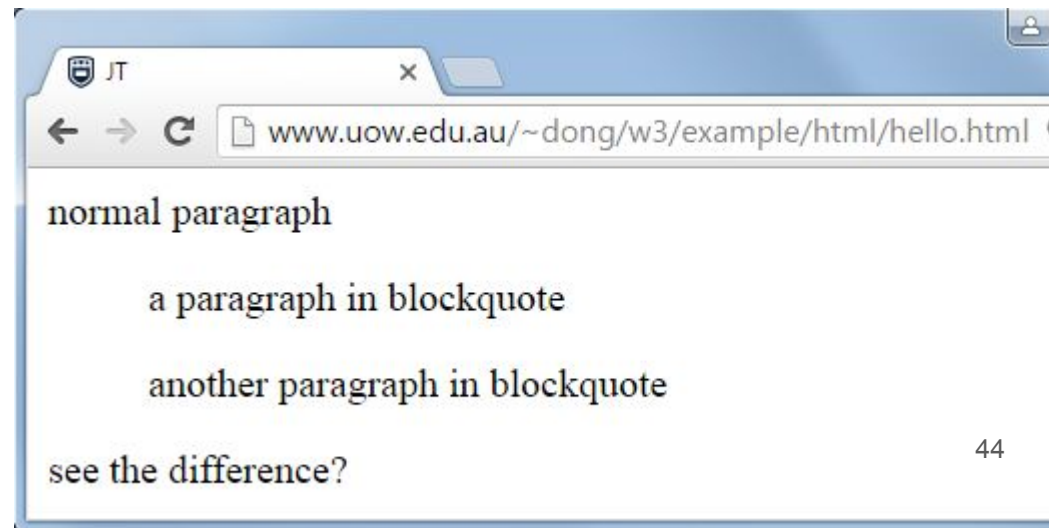
```
<blockquote>
```

```
<p>a paragraph in blockquote</p>
```

```
<p>another paragraph in blockquote</p>
```

```
</blockquote>
```

```
see the difference?
```



# Preformatted text <pre>

<pre>

Mary

had a

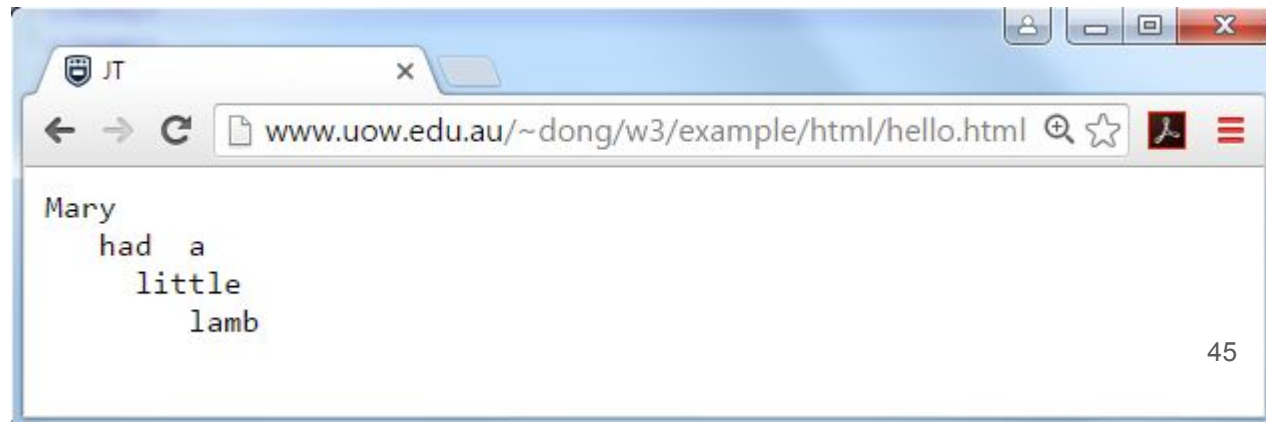
little

lamb

</pre>

**pre** element is shown in monospace

it preserves the character and line spacing



# Computer code

`<pre>`

`<code>`

`a = 0;`

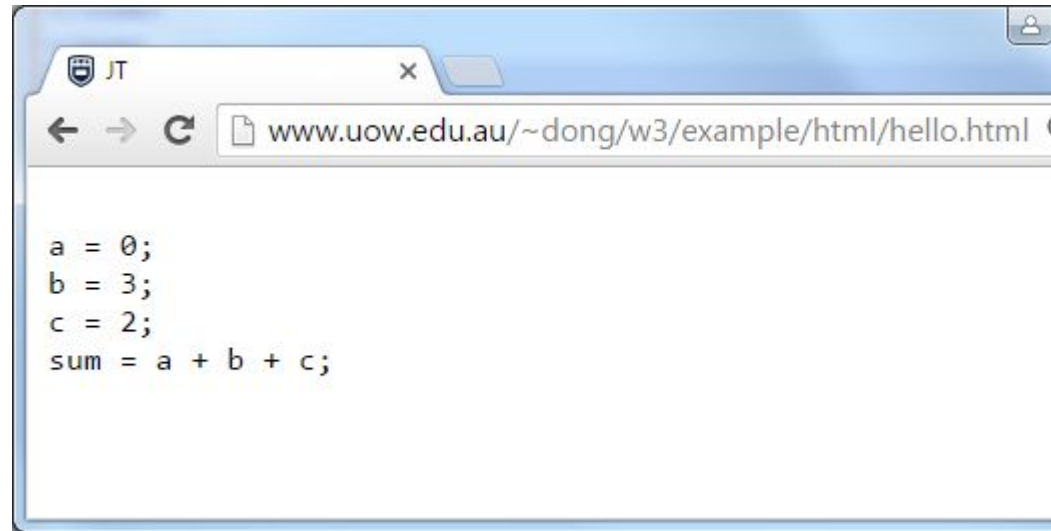
`b = 3;`

`c = 2;`

`sum = a + b + c;`

`</code>`

`</pre>`



*what would happen if we use `<code> ... </code>`  
without `<pre>` ?*

# Computer code

*If you want to include special characters such as*

*< > & " '*

*within **pre** tags, they should be substituted by character entities so that they are not subject to special interpretation by the browser.*

**<pre>**

**<code>**

```
#include <iostream>
```

```
void main( ) {
```

```
    cout <<< "Hello World!" <<< endl;
```

```
}
```

**</code>**

**</pre>**



```
#include <iostream>
```

```
void main( ) {
```

```
    cout << "Hello World!" << endl;
```

```
}
```

# Image

```

```

Attribute	Description
src	URL of an image, for example src="uow-logo.png" src=" <b>images</b> /uow-logo.png" src=" <b>http://</b> www.mycom.au/staff.png"
alt	alternate text for an image
height width	optional. Specifies height, width for image in pixels, or in percentage



# Image alt

```

```

- If a browser cannot find an image, it will display the `alt` text.
- Sometimes, to save bandwidth, user can disable image display, in this case, the `alt` text will be display.
- A screen reader is a software program that can read what is displayed on a screen which is very useful to people who are blind or visually impaired. Screen readers can read the `alt` text.

# Image src

The URL of an image can be

- an **absolute** URL points to another website
- or a **relative** URL points to an image file within a website

## Absolute URL

```
src="http://www.mycom.au/staff.png"
```

## Relative URL

`src="uow-logo.png"` : the image file is in the same directory as the current html file

`src="images/uow-logo.png"` : the image file is in the subdirectory called **images** located at the same directory as the current html file

```
src="images/logo/uow-logo.png"
```

```
src="/../f1/bird.png"
```

# Link

```
<a href="http://www.uow.edu.au" target="_blank">Visit UOW</a>
```

```
<a href="contact.html">Contact us</a>
```

```
<a href="http://www.uow.edu.au" target="_blank">
```

```

```

```
</a>
```

# Link

```
<a href="http://www.uow.edu.au" target="_blank">Visit UOW</a>
```

The **href** in this example is an **absolute** URL.

If user clicks on this link, `http://www.uow.edu.au` will be opened in a new tab

<b>target</b>	<b>description</b>
<code>_blank</code>	open the link in a new window or tab
<code>_self</code>	open the link in the same frame (this is default)

# Link

```
<a href="contact.html">Contact us</a>
```

The **href** in this example is a **relative** URL.

It is similar to the `src` attribute of the `img` tag:

```
href="contact.html"
```

```
href="assignment/a1.html"
```

```
href="../../../handout/note5.html"
```

# Link

```
<a href="http://www.uow.edu.au" target="_blank">
```

```

```

```
</a>
```

Within the link tag `<a href...> </a>`, we can put any text or image.

In the above example, it displays an image as a link to the address

`http://www.uow.edu.au`

# Link - target within document

Within the html document we can use the attribute **id** to mark a specific location

```
<a href="#Proofs">1 Proofs</a>  
<a href="#See_also">2 See also</a>  
<a href="#Notes">3 Notes</a>  
<a href="#References">4 References</a>  
<a href="#External_links">5 External links</a>
```

```
<h3 id="Proofs">Proofs</h3>
```

...

```
<h3 id="See_also">See also</h3>
```

...

```
<h3 id="Notes">Notes</h3>
```

...

```
<h3 id="References">References</h3>
```

...

```
<h3 id="External_links">External links</h3>
```

...

## Euler's theorem

### Contents

- 1 Proofs
- 2 See also
- 3 Notes
- 4 References
- 5 External links

## Proofs

• • • •

## See also

• • • •

## Notes

• • • •

## References

• • • •

## External links

• • • •

# Link - target within document

Within the html document we can use the attribute **id** to mark a specific location

```
<a href="#Proofs">1 Proofs</a>
<a href="#See_also">2 See also</a>
<a href="#Notes">3 Notes</a>
<a href="#References">4 References</a>
<a href="#External_links">5 External links</a>
```

```
<h3 id="Proofs">Proofs</h3>
```

...



The id value must be unique and must contain at least one character.  
The id value must not contain any space characters.



# Link - target within document

We can create a link to a specific location within a html page

For example:

```
<a href="https://en.wikipedia.org/wiki/Euler%27s_theorem#Proofs">  
Proof of the Euler theorem</a>
```

# index.html

- index.html is a default page for a directory
- For security reason, it is better to have index.html for every directory
- It stops people from knowing the content and structure of your website

**Example:** If the directory `abc` has an `index.html` then when we go to <http://the-web-address/abc>

it automatically displays the page <http://the-web-address/abc/index.html>

# Comments

```
<body>
```

```
<!-- this is
```

```
a long comment
```

```
it will not be displayed on the web page
```

```
-->
```

```
</body>
```

# XHTML

- XHTML stands for **EX**tensible **H**yper**T**ext **M**arkup **L**anguage
- XHTML is stricter than HTML

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
  <title></title>
```

```
</head>
```

```
<body>
```

```
</body>
```

```
</html>
```

**DOCTYPE** and **xmlns** are mandatory



# XHTML

- XHTML is stricter than HTML

elements must be properly nested:

`<b><i>bold and italic - not nested correctly</b></i>`

It should be like this:

`<b><i>bold and italic - not nested correctly</i></b>`

# XHTML

- XHTML is stricter than HTML

elements must always be closed:

```
<p>paragraph not closed  
break not closed <br>  
horizontal line not closed <hr>  
image not closed 
```

It should be like this:

```
<p>paragraph not closed</p>  
break not closed <br />  
horizontal line not closed <hr />  
image not closed 
```

# XHTML

- XHTML is stricter than HTML

elements must be in lower case:

```
<HEAD>  
<TITLE>Web Technologies</TITLE>  
<HEAD>
```

It should be like this:

```
<head>  
<title>Web Technologies</title>  
<head>
```

# XHTML

- XHTML is stricter than HTML

attribute names must be in lower case:

```
<img SRC="logo.png" ALT="UOW logo" />
```

It should be like this:

```

```



# XHTML

- XHTML is stricter than HTML

attribute values must be quoted:

```
<img src=logo.png alt=UOW logo />
```

It should be like this:

```

```

# XHTML

- XHTML is stricter than HTML

attribute minimization is not allowed:

```
<input type="checkbox" name="subscribe" value="eletter"  
checked />
```

It should be like this:

```
<input type="checkbox" name="subscribe" value="eletter"  
checked="checked" />
```

# HTML5

- version 5 of the HTML standard
- introduces new tags

`<header> <footer> <article> <section>  
<svg> <canvas> <audio> <video> ...`

- introduces new APIs
  - Drag and Drop
  - Local Storage
  - Geolocation
  - ....

# References

- `http://www.w3schools.com/html`
- `http://developer.mozilla.org/en-US/docs/Web/HTML`