



# CSIT884: Web Development

# HTML W

School of Computing and Information  
Technology  
University of Wollongong

# HTML

- 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>
```

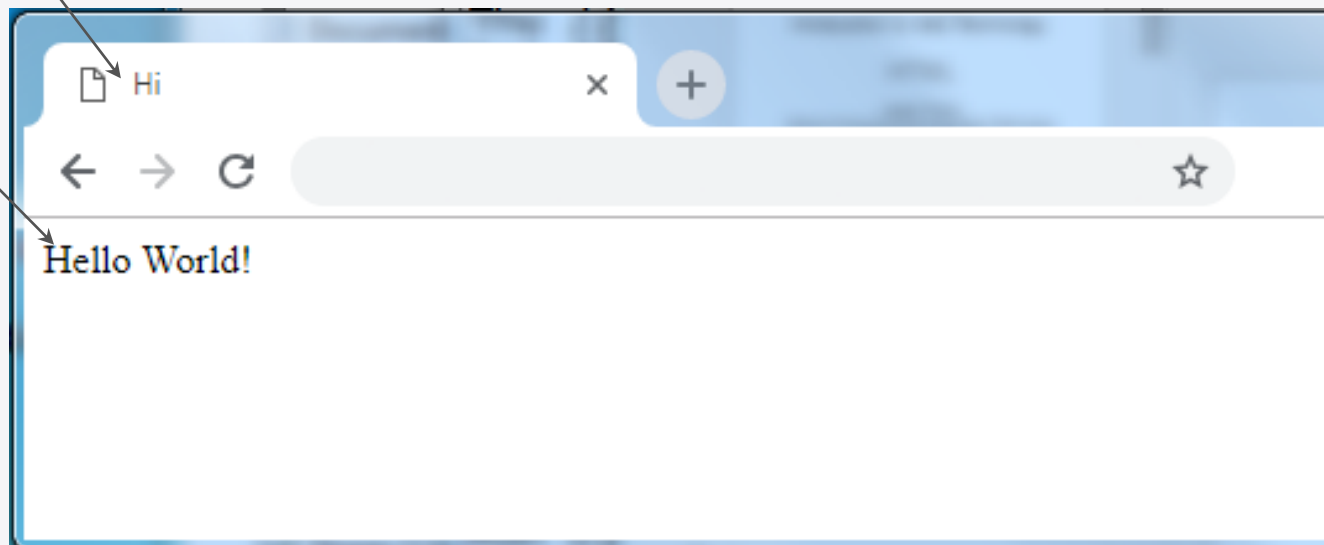
```
  </head>
```

```
  <body>
```

```
    Hello World!
```

```
  </body>
```

```
</html>
```



# HTML document structure

```
<html>
```

```
<head>
```

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

```
</head>
```

```
<body>
```

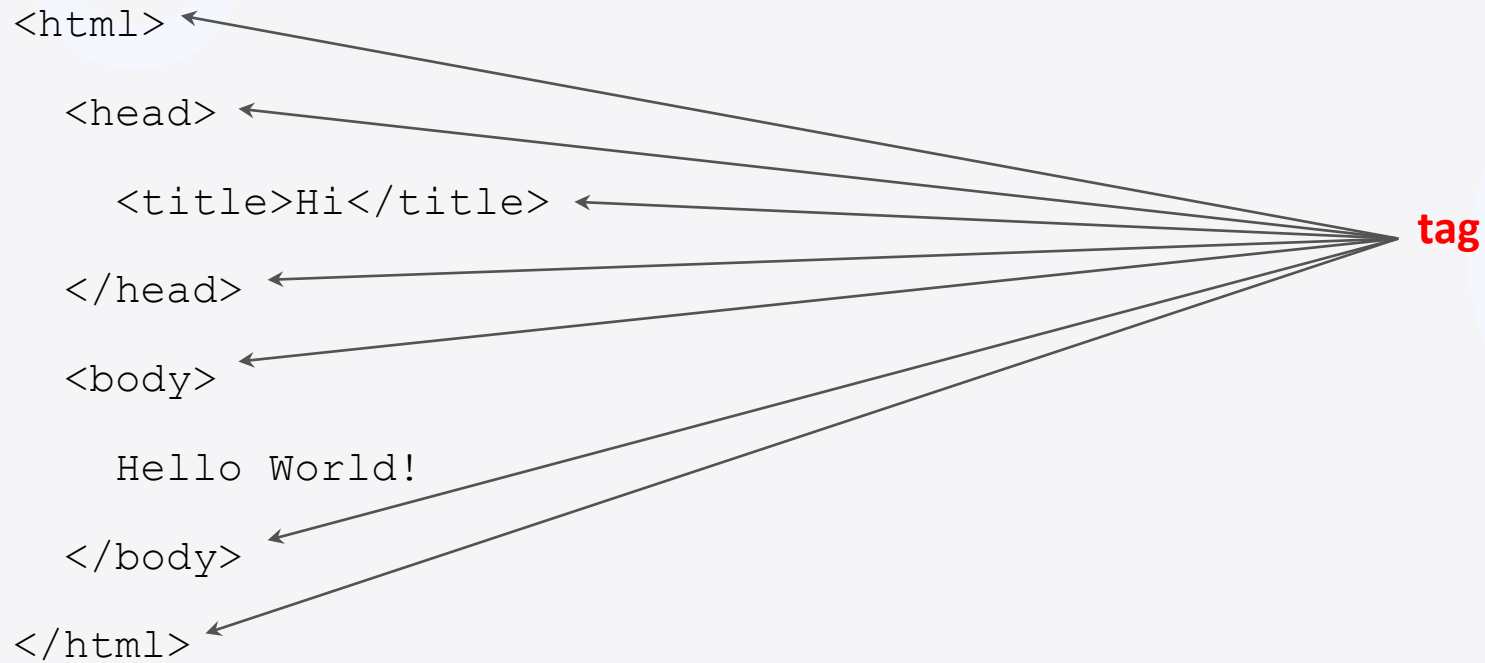
```
Hello World!
```

```
</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

`<html>`

`<head>`

`<title>Hi</title>`

`</head>`

`<body>`

Hello World!

`</body>`

`</html>`

tags are NOT case sensitive

tag

most tags are in pair

`<tagname>content</tagname>`

start tag

end tag

# HTML tags

```
<html>
  <head>
    <title>Hi</title>
  </head>
  <body>
    Hello World!
  </body>
</html>
```

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

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

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

My timetable:

**Unordered List**

**List Item**

```
<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

# 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>`

`<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>`

Ordered List

List Item

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 **L**ist

Description **T**erm

Description **D**efinition

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>**

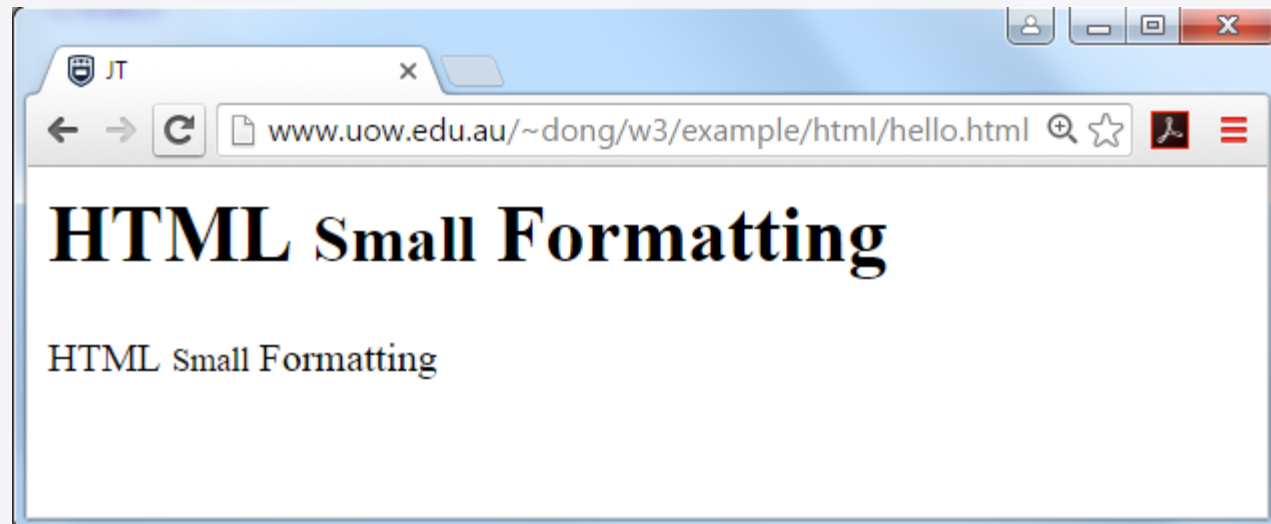
My timetable:

- **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
```



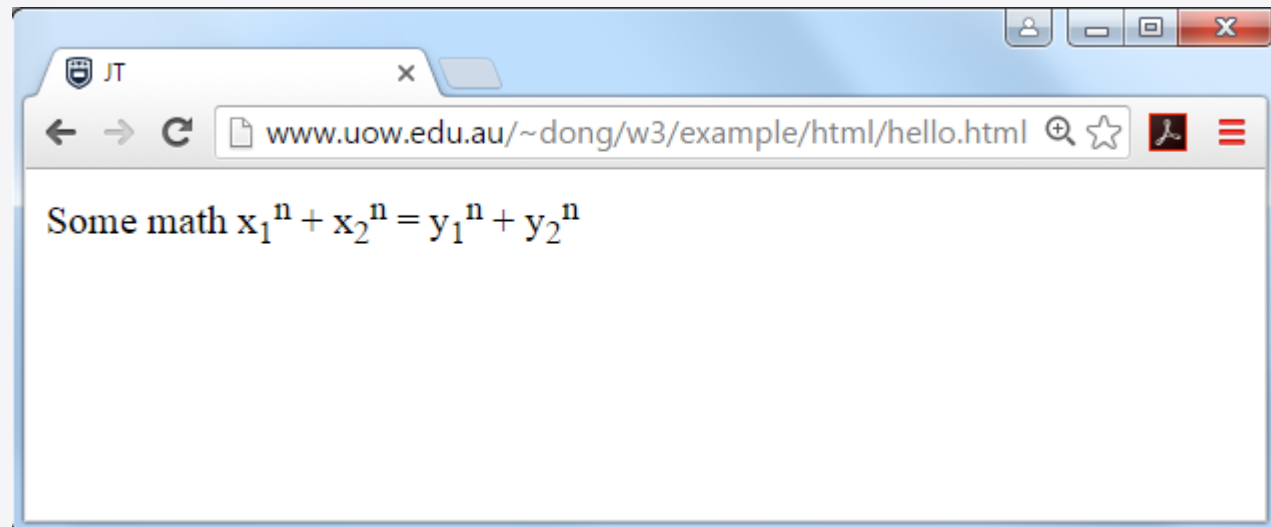
# Formatting text

<body>

Some math

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

</body>



# 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>`

# Table

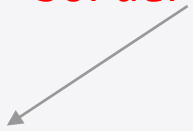
*border attribute*

```
<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 Row

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>
```

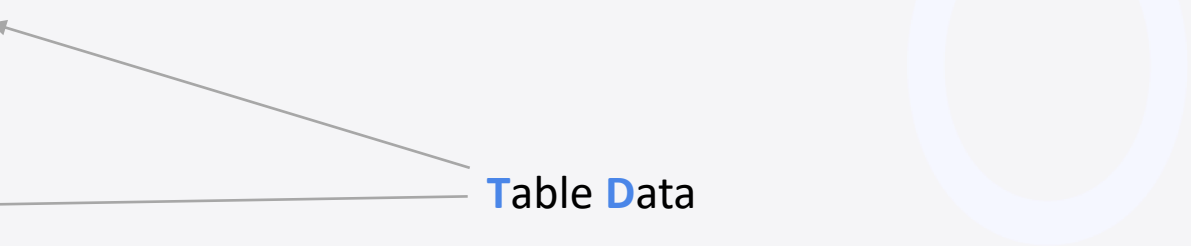
Username	First name	Last name
jsmith	John	Smith
mlee	Mary	Lee

# 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>
```

*Sometimes 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>
```

Table caption

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

User information		
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



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>
```

**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>
```

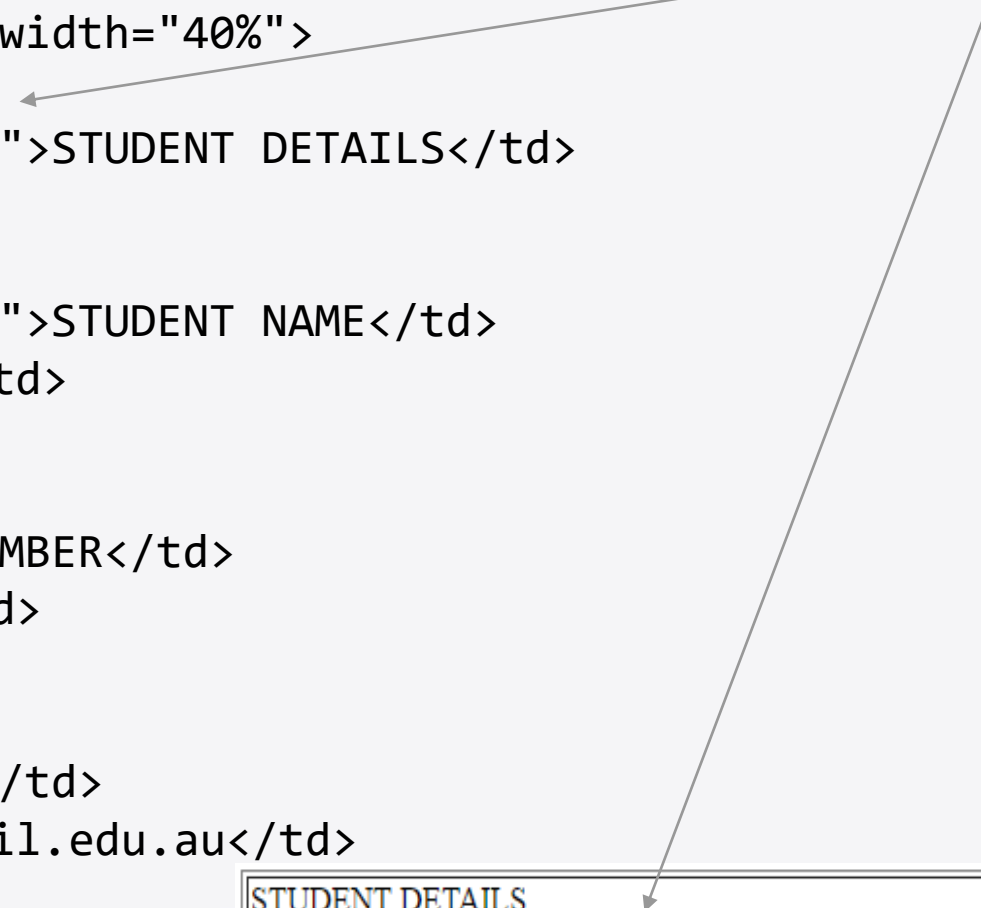
Vertical alignment

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

# Table

```
<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>
```

Column span



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

# Table

```
<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>
```

Row span

	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>
```

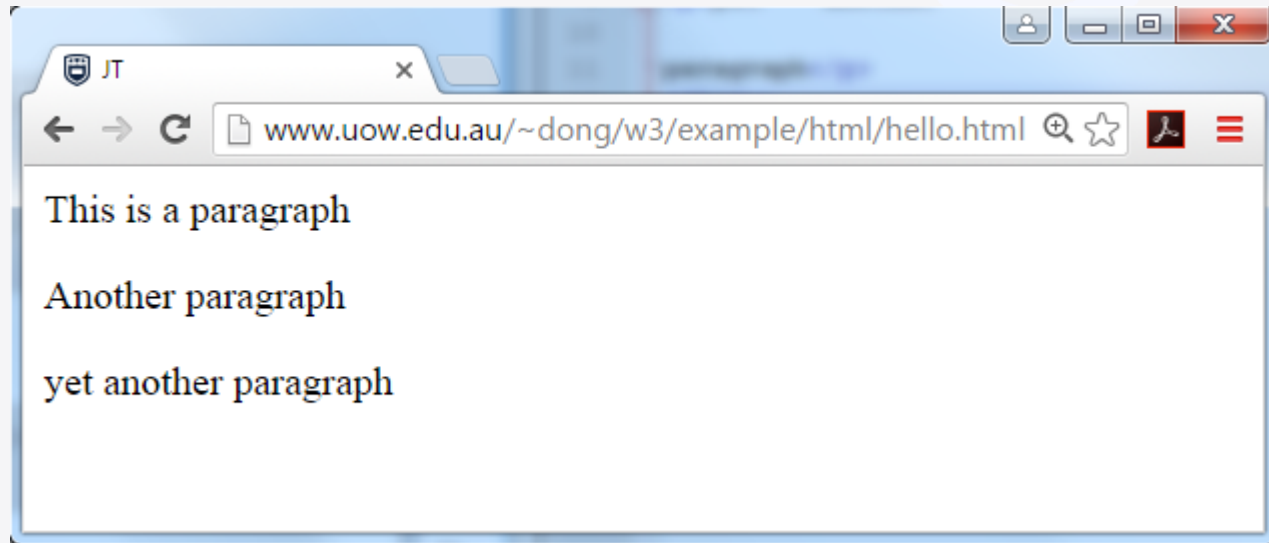
```
<p>Another
```

```
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>
```

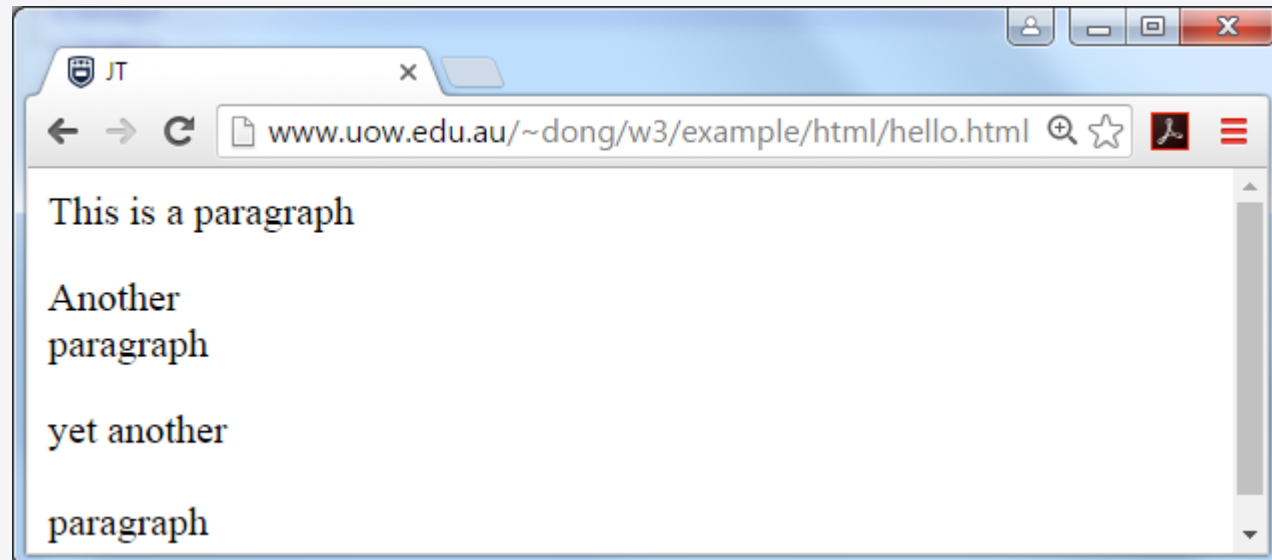
```
<p>yet another <br />
```

```
<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>
```

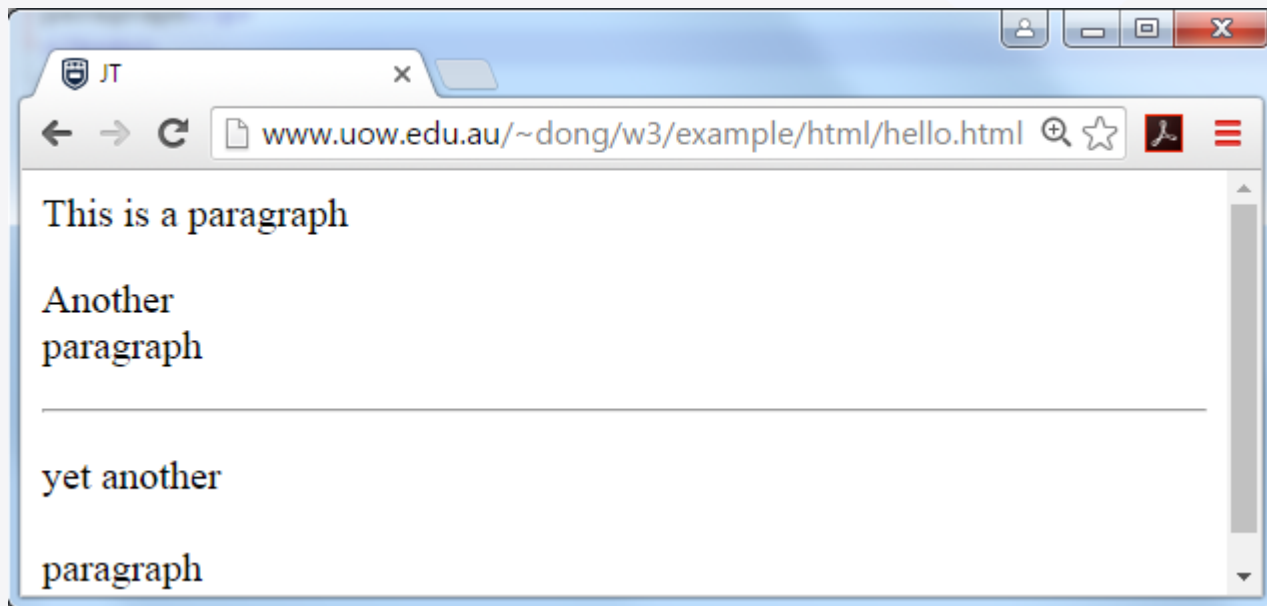
```
<hr />
```

```
<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>
```

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

```
<hr />
```

```
<p>yet      another <br />
```

```
<br />
```

```
paragraph</p>
```

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

this is an example of character entities

**What is the output of this code?**

# Character entity

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

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

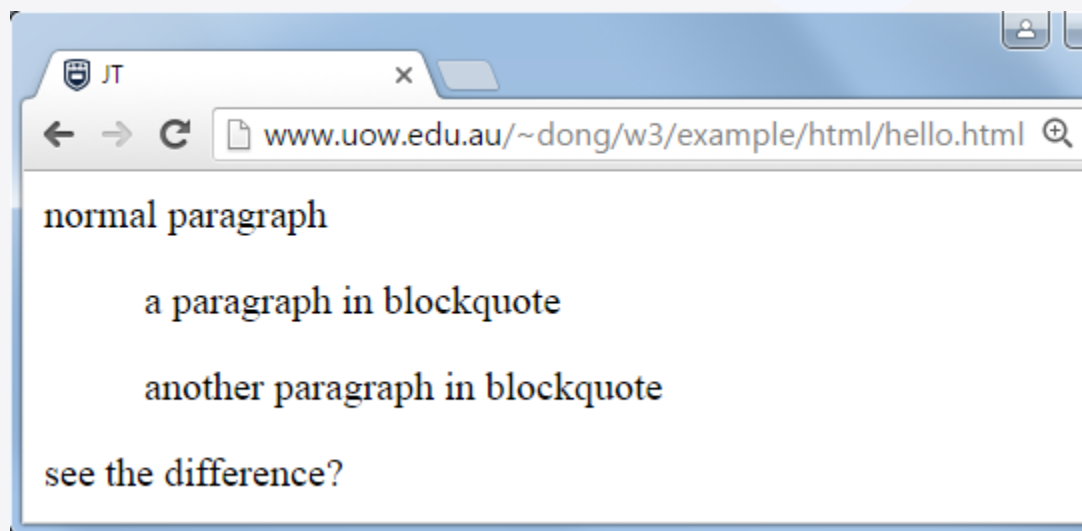
```
<blockquote>
```

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

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

```
</blockquote>
```

```
see the difference?
```



# Preformatted text <pre>

<pre>

Mary

had a

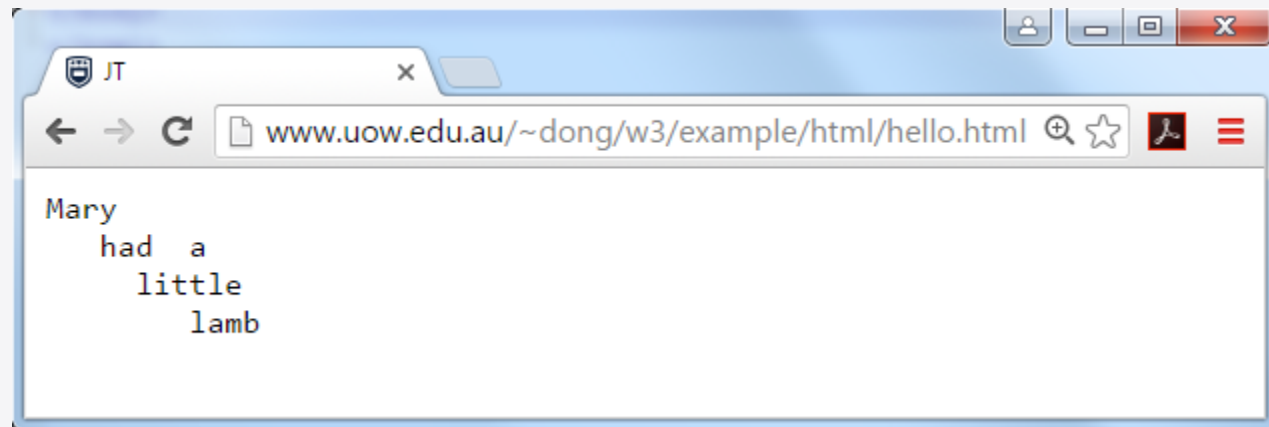
little

lamb

</pre>

**pre** element is shown in monospace

it preserves the character and line spacing



# Computer code

**<pre>**

**<code>**

a = 0;

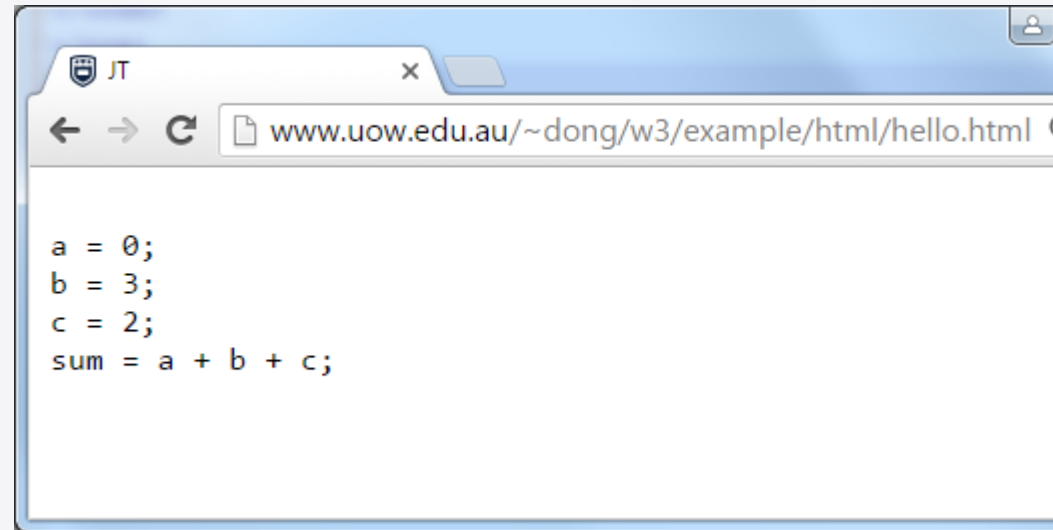
b = 3;

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 << &quot;Hello World!&quot; << endl;
```

```
}
```

**</code>**

**</pre>**



```
#include <iostream>
```

```
void main( ) {
```

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

```
}
```

# Image

```

```

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

# 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

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

## Relative URL

(2) `src="uow-logo.png"`

the image file is in the same directory as the current html file

(3) `src="images/uow-logo.png"`

the image file is in the subdirectory called **images** located at the same directory as the current html file

(4) `src="images/logo/uow-logo.png"`

(5) `src="../../../f1/bird.png"`

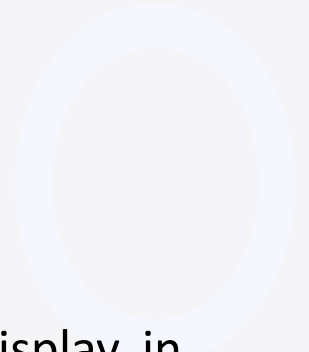


# Image alt

```

```

- If a browser cannot find an image, it will display the alt text.
- Sometimes, to save bandwidth, a user can disable the image display, in this case, the alt text will be displayed.
- 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.





# 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

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

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

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

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

# Link

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

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

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

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

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

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



# Link

- Within the link tag `<a href...> </a>`, we can put any text or image.
- In the example, it displays an image as a link to the address `http://www.uow.edu.au`

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

```

```

```
</a>
```



# Link - target within document

- Within the html document we can use the **id** attribute 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

- For example:

```
<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

- 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>
```

# Comments

```
<body>
```

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

```
a long comment
```

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

```
-->
```

```
</body>
```



# 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>

# XHTML

- XHTML stands for **EX**tensible **HyperText Markup Language**
- 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" />
```

**Can you make a list of the minimized attributes used in HTML?**



# 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
  - ....