

Essential Tags

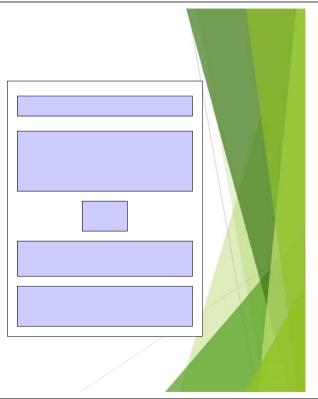
- HTML5 requires the following tags to be in your html source file:
 - html
 - head
 - title
 - body

HTML5 02

Block-level tags

Define the structure of a "block"

- ► Headings
- Paragraphs
- Lists
- ▶ Tables
- Preformatted text



Paragraphs

>

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▶ Defines a paragraph of text

```
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Introduction to tags</title>
</head>
<body>
This is a very simple web page
It contains two different paragraphs
of text.

</body>
</html>
Introduction to tags - Mozilla Firefox
File Edit View Go Roolmarks Tools Help
This is a very simple web page
It contains two different paragraphs of text.
```

Exercises

Create a complete HTML5 document with the title "Simple page". The only text that should appear on the page is "Hello World".

HTML5 02

HTML5 02

Headings

```
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Introduction to tags</title>
</head>
<body>
<h1>A very simple web page</h1>
It contains two paragraphs and two
headings
<h2>Second section</h2>
This section is less important
</body>
                 File Edit View Go Bookmarks Tools Help
</html>
                 A very simple web page
                 It contains two paragraphs and two headings
                 Second section
                 This section is less important
```

Headings

Six levels of headings

- First level heading
- Second level heading
- <h3> Third level heading
- <h4> Fourth level heading
- <h5> Fifth level heading
- <h6> Sixth level heading

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Example of Head, Heading and Title

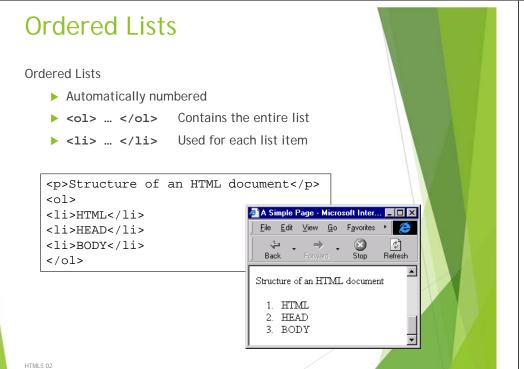
```
<head>
   <meta charset="UTF-8">
   <title> Titles, headings and heads</title>
<body>
   <h1>Title</h1>
   The title is part of the document head
   <h2>Head</h2>
   The head is not shown on the page
   <h2>Heading</h2>
   These come in different sizes
   and make up the content of the page.
  They should therefore be used only
   in the body.
   Do not get confused
</body>
</html>
```

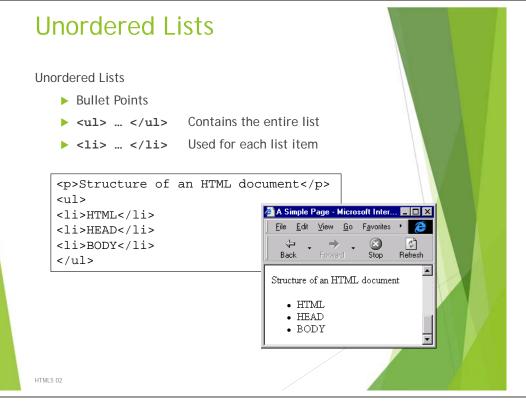


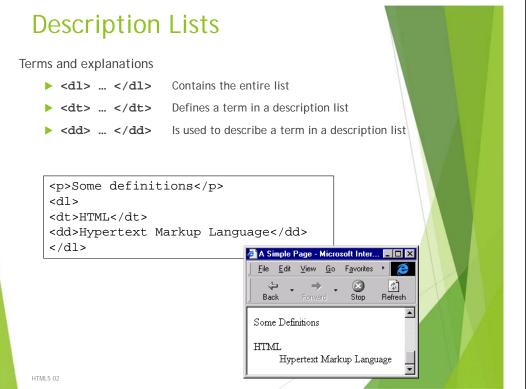
They should therefore be used only

Do not get confused

in the body.

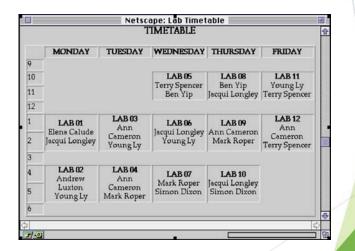


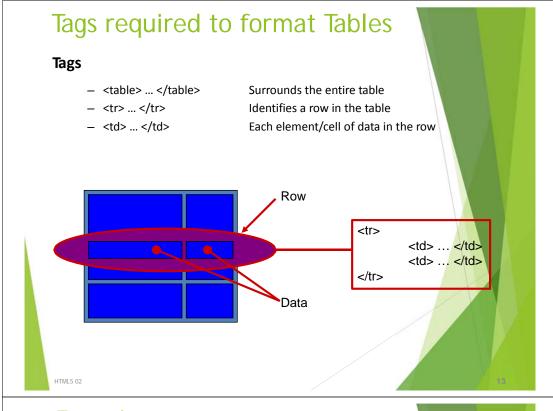




Tables

- Used to format tables of information
- By default, there are no borders shown





A simple table example



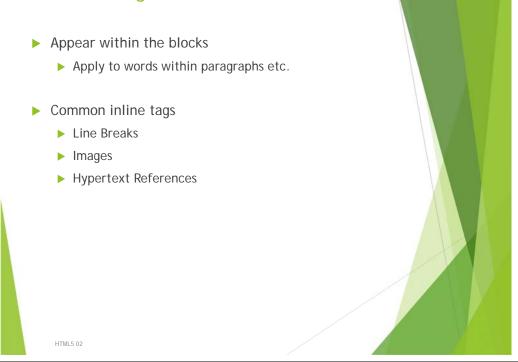
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Exercises

Write a fragment of HTML5 code that will generate a table with 2 rows and 1 column. The text in the first row should be "first row" and the text in the second row should be "second row".

Inline tags



Empty tags

- ► Tags that apply at a given point
 - ▶ Do not format content
 - ▶ Only the opening tag is required.
- Line breaks
 -

- Images
 -

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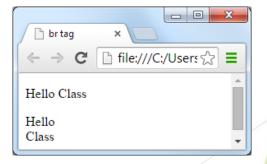
Images

- ▶ Pages may contain images
 - ▶ But images are not plain text
 - ▶ Can't be inserted directly into HTML page
- Solution
 - ▶ Store the image on the internet (or locally on disk)
 - ▶ Tag contains the address of the image
 - ▶ Web browser loads image when required
 - Only use images the browser understands
 - ▶ GIF, JPG, PNG

Line break

- Breaks a line
 - Same as hitting the Enter key
 - ▶ Use
>

Hello Class
Hello
Class



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Image tag

Insert an image at this location

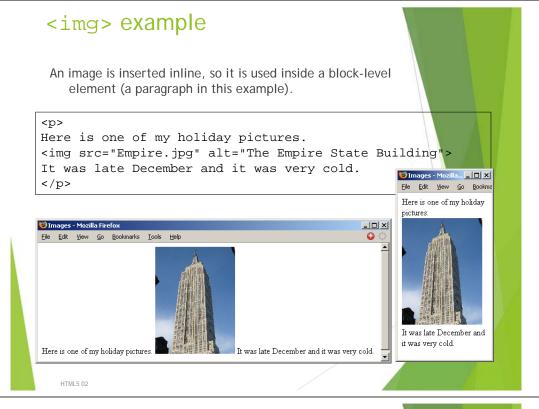
src

- ▶ The source file of the image
- ▶ Attribute that specifies the file name

alt

- ▶ Attribute to specify alternate text
- ▶ Displayed if the image can't load
- ▶ Important for people with visual impairment





Hypertext reference A link to another resource on the WWW

- References to other documents
- ▶ Pages, images, files, sections

<a>

Anchor tag

href

- ▶ Attribute used to specify the destination of the link
- ▶ URL

link text

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URLs

Fully specified

- Protocol
- Host name
- Path
- ▶ File

Relative

- Omit the first parts
- ▶ Path and file
- ▶ File

http://www.cs.auckland.ac.nz/courses/compscill1/index.html /courses/compscill1/index.html lectures/index.html

index.html

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Exercises

What HTML5 code is required to create a hypertext reference that links to a page at the location:

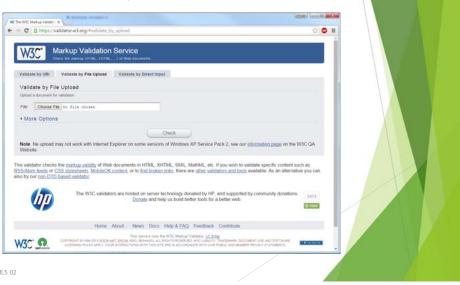
http://www.cs.auckland.ac.nz/courses/compsci111/

The underlined link on the page should be the text "111 home page".

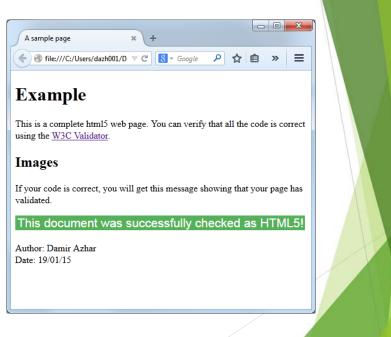
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Simple Page</title>
</head>
<body>
<a href="http://www.cs.auckland.ac.nz/courses/compsci111/">
111 home page</a>
</body>
</html>
 HTML5 02
```

Validated Code

- Online system to check correctness of code
 - Provided by W3C
 - http://validator.w3.org







Example

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>A sample page</title>
</head>
<body>
<h1>Example</h1>
This is a complete html5 web page. You can verify that all the
code is correct using the <a href="http://validator.w3.org">W3C
Validator</a>.
<h2>Images</h2>
If your code is correct, you will get this message showing that
your page has validated.
<img src="validated.png" alt="Validated html5">
Author: Damir Azhar<br>
Date: 19/01/15<br>
</body>
</html>
```

Sections

- <section> tag defines a section in a HTML5 document.
 - Can be used to split a web page into different sections.
- Is an example of a semantic element.
 - An element that clearly defines its content to both the browser and the developer.

<section> example

```
<!DOCTYPE html>
<html lang="en">
                                                                _ □ X
<head>
                                              Section Tag Example ×
<meta charset="UTF-8">
                                              ← → C hile:///C:/Users/dazh00 ☆ =
<title>Section Tag Example</title>
</head>
<body>
                                              About Me
<h1>About Me</h1>
<section>
                                              Work
<h2>Work</h2>
Most of my work centres around COMPSCI 111
where I:
                                              Most of my work centres around COMPSCI 111
Lecture

    Lecture

Run labs

    Run labs

</section>
                                              Interests
<section>
<h2>Interests</h2>
                                              My interests include:
My interests include:

    Gaming

    Reading

Gaming
Reading
</section>
</body>
</html>
HTML5 02
```