Internet Technology

(Unit Code: CDA400)



Internet Technology

(week 2)

- > Recap of week 1
- HTML5 Template
- Some New Tags
- Web Standards
- Complete HTML table task
- Start assessment 1

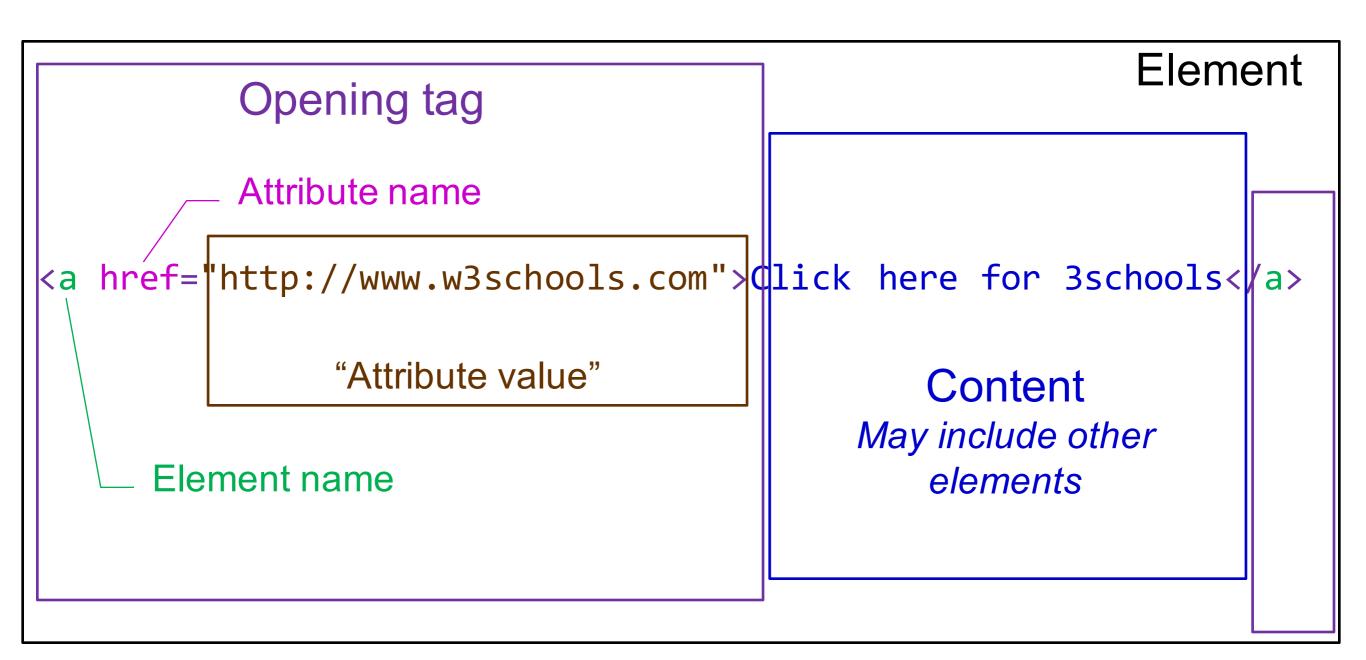


About the Unit

- TwoParts
 - HTML
 - CSS
- One Assessment, a TCA in mid January 2017



Element syntax





Element syntax

- Basic building block of an HTML document
 - container for content
 - each type of element may contain certain other elements
 - each type of element may have certain attributes
 - some elements don't need closing tag ("void" elements) e.g.



HTML Headings

- Six levels of headings, elements h1 to h6
 <h1>This is biggest heading</h1>
 <h2>This is smaller heading</h2>
- Use the heading order sensibly and do not skip heading levels (e.g. from h2 to h6)
- <h1> should only be used once



HTML Images: img element

- Image type: PNG, JPEG and GIF
- tag is *empty*, i.e. it contains attributes only, and has no closing tag
 -
- src attribute: exact filename of picture, with path if necessary
- alt attribute: specifies an alternate text for an image, if the image cannot be displayed and is also used by search engines



Links: anchor element <a>

- Syntax: Link text
- Example:

- Link text should clearly identify the target of each link
- Use text that makes sense when read out of context, e.g. avoid "click here"



HTML Comment

<!-- This is a comment -->

- Add comments for the purpose of making the source code easier to understand
- Comments are not displayed in the browsers
- It is also a good practice to "hide" scripts from browsers without support for it
- This will be checked in your assessment!



Top-level structure

```
This file contains HTML
<!DOCTYPE html>
<html>
                                       Start of HTML content
r<head>
<title>Page Title</title>
                                         Meta-information
L</head>
<body>
The content of the page....
                                         Visible page content
L</body>
</html>-
                                        End of HTML content
```



Some Common Mistakes

```
<hmtl>
     <head>
3
            <h1> My first web page</h1>
      </head>
      <body>
         <p1> This is a paragraph .... </p1>
6
        <img scr="image.jpg" alt="description">
         <a href="http://www.w3schools.com"></a>
8
     </body>
10 </html>
```



Week 1: Create Your Own Simple Web Page

- ➤ Basic HTML Structure
 - Creating a title
 - Including section headers
 - Starting a paragraph
 - Inserting images on a page
 - Creating a link to another web page
 - Adding line breaks/horizontal rules
 - Adding comments



Internet Technology

(week 2)

- >
creates a line break
- >Introducing the unordered list element
- Used for lists (obviously) and for navigation links
 HTML
 Browser Output

```
    List item one
    List item two
    List item three
```

- List item one
- List item two
- List item three



Internet Technology

(week 2)

- > Recap of week 1
- Web Standards
- Make another web page using Table Elements



Web Standards

- We need to write valid W3C HTML
- World Wide Web Consortium = W3C
- W3C is a committee that lays down web standards
- Some browsers may tolerate errors, however we need consistency across all of them.
- Browsers will interpret HTML/CSS using the W3C specification.



How do we validate HTML?

W3C offers a online validation service

https://validator.w3.org/



> Your HTML must be valid from now on



Table Elements

- The tag encompasses the whole table
- It contains rows, each one is a > element
- Each row may contain a mixture of heading and data cells which are defined by the and tags
- Optionally you may also add a <caption> to your table



A basic 3 x 3 table

```
<caption>Table Title
Header 1
   Header 2
    Header 3
 >
   Row 1 Col 1
   Row 1 Col 2
    Row 1 Col 3
 >
   Row 2 Col 1
   Row 2 Col 2
    Row 2 Col 3
```

```
This image cannot currently be displayed.
```



Table Attributes

- The , and tag elements can also contain attributes to modify the look and feel of the table.
 - this can be used until
 we introduce CSS
 - , defines
 the number of columns a cell should span



Attributes Example

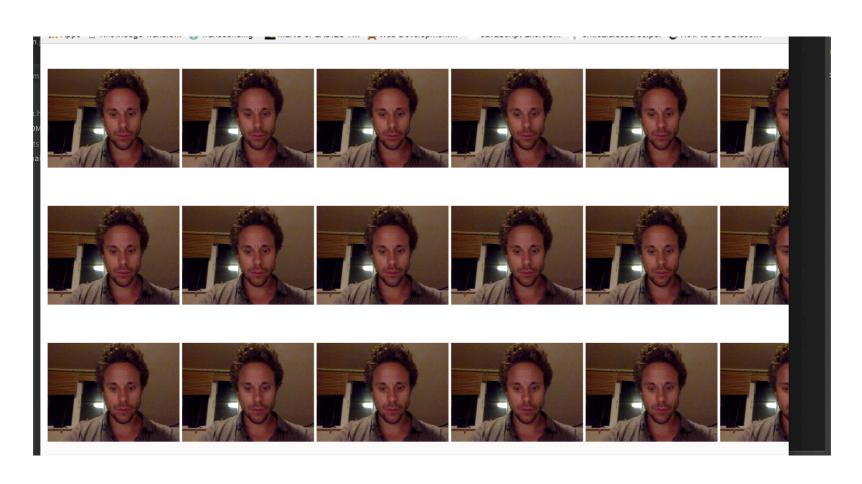
```
<caption>Table Title</caption>
 >
    heading 1
    heading 2
 >
    row 1 col 1
 row 2 col 2
    row 2 col 2
                      This image cannot currently be displayed.
 >
    row 3 col1
    row 3 col2
    row 3 col3
```



This weeks tasks

Download the full task worksheet from SOL

- Create your timetable in HTML
- > Advanced task! The webcam mosaic





Next Time ...

This image cannot currently be displayed.



References

- > HTML5 Introduction http://www.w3schools.com/html/html5_intro.asp
- > HTML tables http://www.w3schools.com/html/html tables.asp