

Web Page vs Web Site

- A web page is a single page viewable using web browser
 - Should be visually appealing, informative
- A web site is a set of web pages
 - Same theme
 - Consistent design

Navigation

- Users have trouble navigating in many web sites
 - Navigation should be easy three click-rule
 - Navigation bar on the left is common
 - Navigation bar on the right is more ergonomic
- Each page should
 - Tell the user what the page is about
 - Clearly identify how to get to other pages (Obvious links)

Familiarity

Use layout and design that people are familiar with

Links

- Don't make the user guess where the links are
 - All links should be clearly identified
- Underlining
 - Do not underline any normal text.
- Remember that links are different colour to normal text
 - Check the appearance of links on your background
- Name of the link should indicate where it links to
 - Don't use "Click here"

Text

- Make the text easy to read
 - Keep text short reading on screen is 15% slower than paper
 - Bullet points, headings, empty space
 - Use a word processor to prepare the text (spelling)
- Use good titles for page
 - Sensible headings
- Make the text legible
 - Font size (not too small to read, not too large)
 - Aligned to the left. Centre only used for headings
 - Colours / contrast
 - Not all uppercase / italic / bold

Bad use of colour

Colour

- Use sparingly to reinforce other information
- Colour blindness (Red / Green, Blue / Yellow)
- Poor use of contrast
- Don't over use colour over just because "it is there"



Images and Backgrounds

- Design for low bandwidth
 - Use images that have small file sizes
- File Formats
 - JPEG for photos
 - ► GIF / PNG for graphics
- Backgrounds
 - Simple
 - Consistent across the entire site
 - Should not interfere with content



Things to avoid

- ► Keep the design simple
 - Avoid making the page cluttered
- Avoid using Frames
 - Make navigation more difficult
- Avoid using Flash animations
 - Not all browsers support flash
 - Takes too long to download
 - Cannot be indexed / searched



HTML

- Hypertext Markup Language (HTML)
 - Used to format web pages
 - Contains hypertext information (links)
 - Written in ASCII / Unicode
 - Embedded format codes (tags)

Browser Wars

- ▶ HTML 1.0
 - ► Tim Berners Lee (1993)
- Browsers added extra features
 - Internet Explorer had unique tags
 - Netscape Navigator had unique tags
- Major problem
 - What tags should a publisher use?
 - How can this problem be resolved?

http://en.wikipedia.org/wiki/Browser_wars

Design and HTML

Development of HTML

- HTML 2.0
 - Internet Engineering Task Force standard (1995)
- ▶ HTML 3.2 / HTML 4.0
 - ▶ W3 Consortium recommendation (1997)
- ▶ HTML 4.01
 - ► W3C recommendation (1999)
- > XHTML 1.0
 - ► W3C recommendation (2000)
- HTML5
 - Fifth revision of HTML standard. Standardized October 2014.

http://en.wikipedia.org/wiki/Html

Design and HTML

Document Type Definition

- Defines which standard is being used for the page
 - We use HTML5
- Should appear at the top of the file

<!DOCTYPE html>

Encoding methods

Different character sets used to encode the page

- ASCII
- ► UTF-8
- Unicode
- Need to tell the browser which encoding is used
 - Located in the *head* of the document.

<meta charset="UTF-8">

Use at the start of every file

- Copy and paste the code exactly as it appears
 - Will be provided in tests and exams

<!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> </head>

HTML Source Code

- Code used by the browser to display the page
 - White space is ignored
- Comments
 - Ignored by the browser
 - Allow you to document your code
 - <!-- Put your comment here -->

Layout

- Use tidy layout where possible
- Make code easy to understand
- Make code easy to maintain/ modify
- Use whitespace and comments to help

Overview of tags

- Markup achieved with "tags"
 - Enclosed with angle brackets < ... >
 - Use lower case
 - Most come in pairs <tag> ... </tag>

Tag usually applies to text between start and end tag

This word is in italics

Attributes

- Some tags require additional information
 - Properties or attributes of the tag
 - <tag property="value"> </tag>



Nested Tags

- Tags must be correctly nested
 - Cannot close an open tag until all the open tags that it affects are also closed



<html lang="en">

- Encloses the entire document
- Specifies that the document uses html
- lang attribute is used to specify the primary language of a webpage - en is the code for English



<head>



Design and HTML

<body>

Contains all the content that will appear on the page



Design and HTML

<title>

- Part of the head
- Specifies the title to be used by the browser
- ▶ Name of the window
- Used in navigation (bookmarks, history, etc.)



HTML5 Exercise

Exercise 1: What does HTML stand for?

Hypertext Markup Language

Exercise 2: What is a document type definition used for?

• Defines which standard is being used for the webpage

Exercise 3: What is "white space"?

Characters or series of white space characters that define horizontal or vertical spaces