

Outline

- Definitions
 - www; http; html; html tags
 - The Meta element
- Design issues:
 - Content-structure-presentation
 - Planning-Designing-Testing
 - Design principles
 - How to drive away your readers
- Examples



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How does the www work..

- Web pages: documents that web information is stored in.
- · Web site: a group of web pages stored together
- Web servers: computers that web pages are stored on.
- · Web clients: Computers reading the web pages.
- Web browser: a program with which web clients view the pages with, i.e. Internet Explorer and Netscape Navigator.



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How does the browser fetch the pages?

- A browser fetches a Web page from a server by a request.
- A request is a standard HTTP request containing a page address.
- A page address looks like this:

http://www.someone.com/page.htm



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How does the browser display the pages?

- All Web pages contain instructions on how to be displayed.
- The browser displays the page by reading these instructions.
- The most common display instructions are called HTML tags.

Internet Explorer: View->Source

HTML tags look like this:

This is a Paragraph

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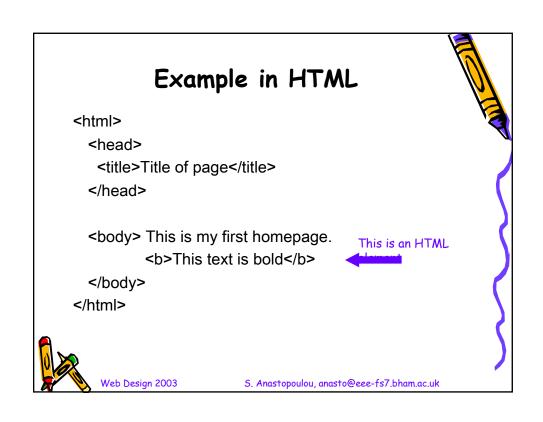
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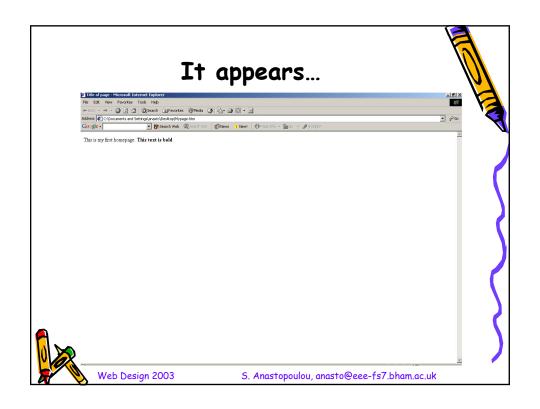
What is an HTML File?

- HTML stands for Hyper Text Mark-up Language
- An HTML file is a text file containing small mark-up tags that tell the Web browser how to display the page
- An HTML file must have an htm or html file extension
- An HTML file can be created using a simple text editor



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The Meta Element

- The **head element** contains general information (meta-information) about a document.
- Each meta-element provides meta-information about the document. Usually they are
 - Descriptions of the content of your document.
 - Keywords
- Some of the search engines on the World Wide Web, will use them to index your pages.



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Example

<HTML> <HEAD>

This meta element defines a description of your page

<TITLE>My page</TITLE>

<META name="description"

content="Stamatina An This meta element defines Web page"> The keywords of your page

<META name="keywords"

content="multimodal learning, multimodal technology in education">

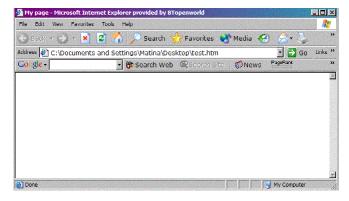
</HEAD>

/HTML>



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Planning

Questions to address in this stage include:

- What do I want the site to accomplish? inform, sell or promote?
- Who are my users and what do they want and need?
- What competitive advantage will the site offer over others?
- · How can I take advantage of the Web medium?



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Content, Structure & Presentation

- The content of a site: what it says to the user through natural language, images, sounds, movies, animations, etc.
- The structure of a site: how it is organized logically, how the different pages are linked together
- The presentation of a document: how the document is rendered (e.g. as print, as a two-dimensional graphical presentation, as an text-only presentation, as synthesized speech, as braille, etc.)



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Content

- think about what point you're trying to make,
- keep the points simple, cover just a few things, in the order of most importance,
- detail is always important, but don't overdo it.
 If you have too many details, the reader doesn't know where to look first.
- if you're not sure that a point should be made, it probably shouldn't.



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Design

Questions to address in this stage include:

- Does the navigation design enable users to move around easily?
- Is the content organized so that users can easily find what they need?
- What visual style do I use to appeal to my audience?
- Is there a consistent 'look & feel' throughout the site?



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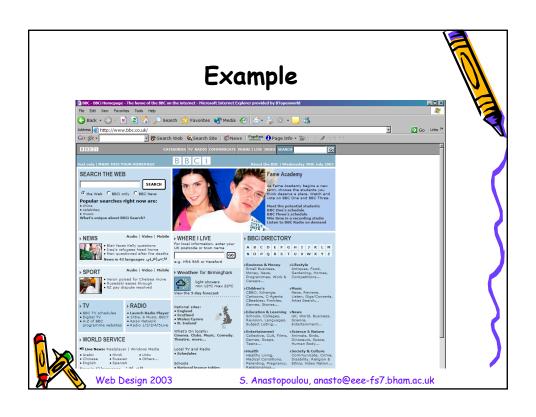
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Testing

- Test your Web site with a variety of Web browsers
- View the resources at your site using a variety of computer platforms, monitor sizes, and screen resolutions.
- Ask users/colleagues what they think of your design:
 - do they understand your navigation patterns?
 - is the design consistent throughout the site
 - do you follow conventions, e.g. underlying text for links??
- Revise your HTML to make your site accessible.



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Useful tips

- Make sure the site is finished, so no "under construction" signs;
- Get your loading time down, nobody wants to wait an eternity for your website;
- · No broken graphics and 404 errors;
- Have some content, unless you're running a link-exchange site;
- · No adult sites;



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Be Consistent

- In the use of colours throughout the site.
- · In the location and order of navigation.
- In the use of fonts.



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Always Provide

- An off switch for music.
- · A non-Flash version of Flashed sites.
- Instant visibility of the most important links and information.
- · Meaningful text labels for all links and images.
- The file size for downloads or large graphics.
- · Sufficient contrast between background and text.
- Meaningful and well-organized content.
- · Intuitive navigation.
- · A thoroughly tested site



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Limit

- · The use of bells and whistles.
- · The width of lines of text.
- · The height of blocks of text.
- The number of times an animation will loop.
- The use of scrolls that distract or misdirect the eye.
- · The size and number of graphics.
- The number of clicks to any given page.
- · The number of colours used on the site.

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Never

- · Underline text it will be confused with links.
- Force visitors into using the back button on their browser.
- Rely on mouse-overs to label links.
- Place text on top of loud or busy backgrounds.
- Break the back button.
- Steal.



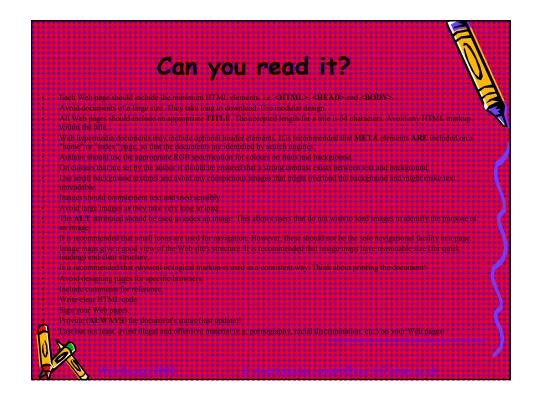
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How to Drive Away Your Readers

- Use impossible navigation on your site
- Put up more adverts than content
- Do not maintain your site
- Require too much information
- Be too cutting edge
- Crash your customers' browsers
- Use sound on a business site
- Put up too many images
- Embed too many tables
- Pay no attention to your readers

http://webdesign.about.com/library/weekly/aa122101a.htm

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Can you read it?

- Each Web page should include the minimum HTML elements, i.e. <HTML>, <HEAD> and <BODY>.
- Avoid documents of a large size. They take long to download. Use modular design
- All Web pages should include an appropriate TITLE. The accepted length for a title is 64 characters. Avoid any HTML markup within the title
- Web hypermedia documents may include optional header elements. It is recommended that META elements ARE included on a "home" or "index" page, so that the documents are identified by search engines.
- Authors should use the appropriate RGB specification for colours on fonts and background.
- On colours that are set by the author it should be ensured that a strong contrast exists between text and background.
- Use small background textures and avoid any conspicuous images that might overload the background and might make text unreadable.
- Images should complement text and used sensibly
- Avoid large images as they take very long to load.
- The ALT attributed should be used to index an image. This allows users that do not wish to load images to identify the purpose of an image.
- It is recommended that small icons are used for navigation. However, these should not be the sole navigational facility in a page.
- Image maps give a good view of the Web site's structure. It is recommended that image maps have reasonable size (for quick loading) and clear
- It is recommended that physical or logical markup is used in a consistent way. Think about printing the document!
- Avoid designing pages for specific browsers.
- Include comments for reference
- Write clear HTML code.
- Sign your Web pages.
- Provide (ALWAYS) the document's status (last update)!
- Last but not least, avoid illegal and offensive material (e.g. pornography, racial discrimination, etc.) on your Web pages!

http://www.cogs.susx.ac.uk/users/theoa/simg/tutorial_issue2/node6.html



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 $\underline{http://www.cogs.susx.ac.uk/users/theoa/simq/tutorial_issue2/node6.html}$



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Can you read this?

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Guidelines W3C

- Provide equivalent alternatives to auditory and visual content.
- · Don't rely on colour alone.
- · Design for device-independence.
- Use interim solutions.
- Use W3C technologies and guidelines.
- Provide context and orientation information.
- · Provide clear navigation mechanisms.
- Ensure that documents are clear and simple.



Summary

- · Definitions
 - www; http; html; html tags
 - The Meta element
- Design issues:
 - Planning-Designing-Testing
 - · Content-structure-presentation
 - Do's and don'ts



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