IST 263

What is the difference between the internet and the web?

* The web is part of the internet
* World wide web, FTP, E-mail, Telnet all part of the internet

What decade was the internet conceived? 1962. Licklider of MIT proposed the idea of a network of computer that could talk to eah other

First message sent on the ARPAnet?

* 1969 first message sent
* First message was sent from UCLA to Stanford: “LOGIN” – it crashed the fledging ARPA network anyway

What decade was email invented? 1971 Ray Tomlinson.

* Came up with the @ symbol to tell the difference between person and location in an email address

Modern technology that united all computers on early networks: TCP/IP (we still use it)

* 1971 Vincent Cerf. Unifies lots of mini networks like ARPAnet

Throughout the 1980s, researchers and scientists used it to send files and data (no images)

When was the web invented? 1991 Tim Berners-Lee (working at CERN)

* Helped solve the difficulties scientists were having sharing info
* Created HTML
* Created URLs
* Developed HTTP the protocol
* Director of the world wide web consortium, which oversees the continued development of the web

The first popular web browser was called: Mosaic (first to show pictures) 1993

* In 1993 congress decided that the web could be used for commercial uses
* The first thing ever purchased on the internet was pizza

How does the web work? When u type a URL your IP address is also sent out so you receive the correct website.

DNS: domain name server

URL: uniform resource locator

Protocol: https: the s means your site is secure, your credit card info will be encrypted

top-level domain: .com,.net, etc.

sub-domain:

port:

**Unit 02: Lecture Video – HTML Tags**

Tags and elements are synonyms.

Tags:

<strong></strong> … bold

<h1></h1> …heading

<p></p> … paragraph

<br>…line break

Block vs. Inline elements:

Block tags create a space in between tags (heading, subheading, paragraph, div tag..etc.)

Inline tags don’t create a space (bold)

Void elements – tags that have no closing tag

<br>… line tag has no closing tag

<hr> … horizontal line

Image tag is also a void tag

Character Escapes:

Freeformatter.com 🡨 where you can find code for symbols such as the copyright symbol

Lists:

<ul>

<li> first item </li>

<li> second item </li> 🡨 bulleted list

<li> third item </li>

</ul>

<ol>

<li> first item </li>

<li> second item </li> 🡨 numbered list

<li> third item </li>

</ol>

Browser Caching – not seeing the most current version of a logo or picture.

**Unit 03: Lecture Video – links, images, and video**

Copyright and intellectual property

HTML Attributes and links:

* All HTML elements can have attributes
* Attributes provide additional information about elements
* Attributes are always specified in the start tag
* Attributes usually come in name/value pairs like: name=“value”

Link Paths:

* External link – full url including http
* Relative link – refer to page based on the current page’s relative location
* Site root link - / specifies root site directory – specify path from root

Note: paths to files and paths to images work the same way

Images:

* Web image formats: PNG, JPEG, GIF
* Element – img is a void element
* src attribute specifies image location
* alt attribute describes image as text

\*A void tag doesn’t have a closing tag\*

Embedding:

Embedding with the <iframe> tag:

* an inline frame is used to embed another document within the current HTML document
* title attribute describes the content of the iframe and should always be used

Embedding a youtube video:

* find your video
* click share and choose embed
* copy and paste the HTML code that pops up between <body> tags

**Unit 04: Lecture Video – Tables and Forms**

Tables are used to display a lot of data in an organized manner.

Element: Purpose:

* <table> </table> marks start and end of the table
* <tr> </tr> one row in a table
* <th> </th> header in a table
* <td> </td> one cell in a table

Form Element:

<form action=””method””>

</form>

* Tells you where a form begins and ends
* Will contain elements with form control elements (checkboxes, dropdowns text boxes, etc.)
* Defines how form is processed and what method is used to send data
* You can’t overlap form tags so once you start and element you must close it before another form is started
* The action part of the tag tells you where the form is going to go once it is submitted
* The method part of the tag tells you how to information is going to be sent to the action page

Form attribute method:

* What is “get”
  + Sends the form data across the URL
  + Used for searches
* What is “post”
  + Sends the form data on a special header with the http request
  + Most commonly used

Text box and label elements:

<label for=”firstname”>Enter first name: </label>

<input type=”text” id=”firstname” name=”firstname”>

The input element is a void tag

The id attribute in the input element determines the label that the tag is associated with.

Radio Button: The for, type and id attributes change depending on the value. The name attribute stays the same for all values.

Checkboxes: have different name values, the different questions for check boxes don’t affect each other.

Textarea:

* Attributes
  + Id
  + Name
  + Rows
  + Columns
* Textarea is **NOT** a void tag
* Creates a textbox on a form

Select tag:

* Creates a dropdown list with options

Form selects can allow the user to select more than one value in the drop down.

**Unit 05: Lecture Video – photoshop**

The formats:

* PNGs allow transparency
* PNG-24 millions of colors
* PNG-8 only 256 colors ..used for cartoons, drawings, anything that’s not a photo
* JPEGs do not allow transparency

Transparency – putting a logo on a shirt without the square background

Pixel – one dot of an image

* There are 72 pixels per inch on a screen
* The number of pixels per inch is abbreviated PPI

Pixelated – an image does not have enough pixels to be scaled larger

Dimensions – width and height