

HTML - The Basics



The Internet

- The World Wide Web
 - Also known as the Web
 - Created in 1989
 - European Laboratory for Particle Physics (Geneva Switzerland)
 - Purpose
 - Provide an easy way to access cross-referenced documents that exist on the internet

Hyper text

- The World Wide Web
 - Hypertext
 - Is a text displayed on a computer
 - Hypertext links
 - Contain reference to locate and open specific documents
 - Hypertext Markup Language (HTML)
 - Language used to design web pages (documents)
 - Web Browser
 - Program that displays HTML documents

URL

- Uniform Resource Locator (URL)
 - Consists of 4 parts:
 - Protocol → Hyper Text Transfer Protocol (HTTP)
 - Domain Name → or Internet Protocol (IP) address
 - Directory
 - Filename
 - Specific document filename
 - index.(s)htm(l) or default.(s)htm(l)

URL

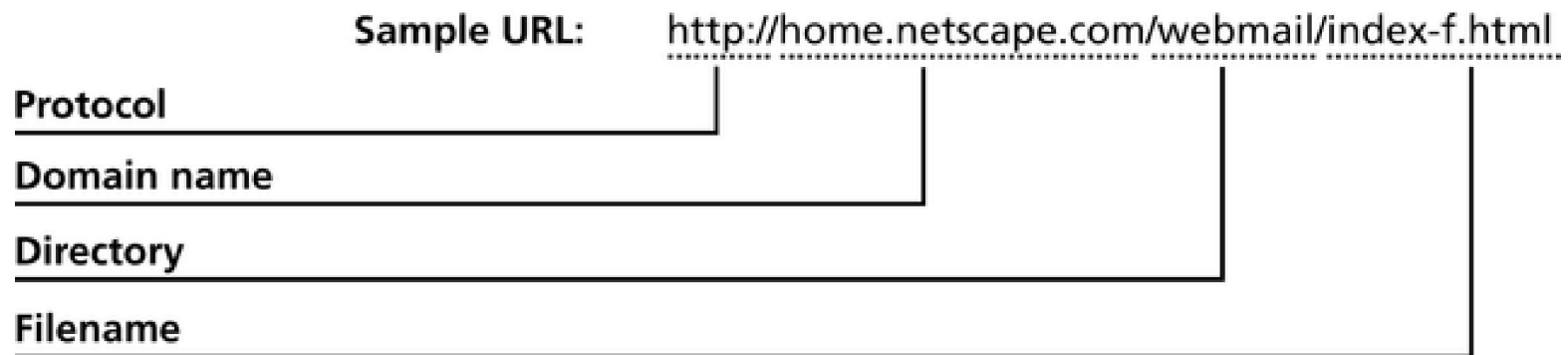


Figure 1-1: Sample URL

HTML

- HyperText Markup Language
 - A method of encoding for web pages that tells (suggests) how to display the content
 - HTML commands are called tags and are enclosed in angle brackets
 - opening tag `< >`
 - closing tag `< / >`

Explore a web page

- Right click on a web page
 - select `ViewSource`
- Look for the parts of the page – the tags
 - head
 - body
 - title
- Pairs of tags
 - Opening tags `< >`
 - Closing tags `< / >`
- UPPER CASE vs. lower case?

Parts of the Page

- HTML tags indicate this is an HTML document:

`<html> </html>`

Each page has 2 parts:

- Head – holds information like the page title

`<head> </head>`

- Body – holds the visible text and images

`<body> </body>`

A Basic Web Page

```
<html>  
  <head>  
    <title> MY PAGE - Home</title>  
  </head>  
  <body>  
    Hello, world!  
  </body>  
</html>
```

Test Page

Go to your directory on the c: drive.
Save your NotePad file as index.html

To view it, open a browser and enter
<file:///c:/yourDirectory/index.html>

Now, view the source using the right mouse button.

Note: file not http because we are reading a local page.

Headings

- Headings:

`<h#> My Heading </h#>`

where # is a number between 1 and 6
with 1 being the largest.

Example: `<h1> My Web Page </h1>`
`<h3> Activities </h3>`
`<h5> Computer Workshop </h5>`

Images

Include the source file and path (location) as well as alternate text for those who can not load the picture or need to use a text reader.

```

```

Other Common Tags

- Paragraphs `<p>` `</p>`
- Forced Break `
` `</br>`
- Emphasis `` ``
- Bold `` ``
- Italics `<i>` `</i>`

- Alignment `<p align=left/right/center>`
`</p>`
 - Default is left.

Unnumbered Lists

HTML

```
<ul>My list  
  <li> list item 1  
  <li> list item 2  
  <li> list item 3  
</ul>
```

Output

```
My list  
  list item 1  
  list item 2  
  list item 3
```

Note: list items can be multiple lines or paragraphs

Numbered or Ordered Lists

HTML

```
<ol>My ordered list  
  <li> list item 1  
  <li> list item 2  
  <li> list item 3  
</ol>
```

Output

My list

1. list item 1
2. list item 2
3. list item 3

Note: list items can be multiple lines
or paragraphs

Horizontal Rules/Lines

```
<hr size=a width = "b%">
```

Example with parameters:

```
<hr size=4 width="75%" >
```

Produces a line size 4 that goes across 75% of the page.



Links to Other Pages

Use the anchor tag `<a ... > `

- Link to another page

```
<a href="page2.htm">Page 2 </a>
```

where page2.htm is located in the same directory

- Link to a web page

```
<a href="www.yahoo.com">Yahoo </a>
```

Note: some OS are case sensitive so be consistent in names.

Links to Specific Sections

- Link to another section of a page

1. Create a named anchor in the section

```
<p><a name= "c24">chapter 24</p>
```

2. Create the link in the same document or another document.

```
<h3><a href="index.html#c24">see also chapter23</a>
```

Basic Settings

- Background:
`bgcolor=#ffffff`
- Font and alternates:
`{font-family: Arial, Helvetica, sans-serif }`
- Font color:
`text="#333333"`

Example:

```
<p><font size="3" color="red">This is some  
text!</font></p>
```

Basic Settings

- Links:
 - Link: `link="#333333"`
 - Visited link: `vlink="#333333"`
 - Active link: `alink="#333333"`
- Margins:
 - `leftmargin=0 topmargin=0`
 - `marginwidth=0 marginheight=0`

Example

```
<html>
  <head>
    <title> MY PAGE - Home</title>
  </head>
  <body bgcolor=#ffffff leftmargin=0
topmargin=0 marginwidth=0 marginheight=0
text="#333333" link="#333333"
vlink="#333333" alink="#333333">
```

```
  Hello, world!
</body>
</html>
```