### **World Wide Web Primer**

# **Beginnings**

- o Tim Berners-Lee
  - Created the first workable hyperlink system for the Internet.
  - System was designed so that Physicists could share research papers.
- Berners-Lee set the groundwork for three universal technologies:
  - HTTP the universal communications language (how transmitted)
  - URL the directions to information (where)
  - HTML the mark-up language (how displayed)

### **HTTP**

- Hypertext Transfer Protocol
- o The common highway information travels on
- Describes how data is communicated

### **URL**

- Universal Resource Locator
- o The directions pointing to where information is stored
- o Syntax:

http://www.domainname.com/directory/filename.html

- Allows you to go anywhere at anytime
- Information no longer limited by geography
- o IP Addresses and Domain Names
  - Each computer on the Internet has a unique IP
  - Domain names shield the end-user from IP addresses
  - When you type in a name, a computer translates it into an IP address

# HTML

### **Hypertext Markup Language**

- Provides a common, open, simple, text-based and standards-based language for displaying information.
- Based on previous technologies (SGML) from the print world.
- o By design, HTML is a *structural* language, not a *visual* language.
- o HTML Hyper-linking allows for stream-of-conciseness browsing, where one interest leads to the next, which leads to the next and so on.
- o Base items:
  - Tag
  - Attribute
  - Value
- Together, they are collectively called an element.
- Example element:

# **Tags**

- o Tags are commands that tell a browser what you want to control.
- They are either full words ( <title> ) or abbreviations ( is for Paragraph, <img> is for Image ).
- Tags usually appear in pairs. Most require a closing tag, which as denoted by a slash ( / ) inside brackets.
- o Examples:

```
<head></head>
<body></body>
<img>
<a></a>
```

### **Attributes**

- Attributes tell the browser *what part* of the tag you're going to alter.
- Examples:

```
bgcolor
src
size
width
alt
href
```

### **Values**

- Values tell the browser exactly how to alter the attribute specified in the tag.
- Examples:

```
="white"
="images/home.gif"
="13"
="left"
="bicycle.html"
```

#### **Elements:**

A collections of tags, attributes and values.

```
<body bgcolor="#ffffff" text="#000000" alink="#6699FF">
cp align="left">Hellow World
<img src="images/home.gif" width="13" height="13" alt="Welcome">
<a href="bicycle.html" target="_blank"></a>
```

#### A Basic HTML Page

## What to learn more? View the Source...