Chapter 4 - HTML

1. Understanding HTML terms and syntax
2. Use HTML tags to build web pages
3. Use HTML tags to add content
Hypertext Markup Language (HTML): builds the structure and organizes the content of a web page.

- Once a web page is requested from a server, the HTML code is split into IP packets
- The server sends the IP packets, then the destination computer builds the website using the HTML code
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HTML is written using a series of tags which tell the browser how to display content.

A tag is composed of two brackets, with a word or letter inside:

    <title>
This tag will begin a title for the page. To signify the end of the title, use the tag:

    </title>

The tags must be written in lowercase, <Title>, <TITLE> are both invalid.
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An entire line of code looks like:

```html
<title> Science is fun! </title>
```

- `<title>` is the 'open' or 'start' tag
- `</title>` is the 'end' tag
- “Science is fun!” will be placed on the browser’s title bar
The basic format for any HTML document is:

```html
<!DOCTYPE html>
<html>
<head>
</head>
<body>
</body>
</html>
```
The `<head>` tag will include any information that will apply to the entire page

```html
<head>
    <title> Science is fun! </title>
</head>
```

This page will have the title “Science is fun!”
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The `<body>` tag will include any information displayed on the page.

Some tags commonly used in the `<body>` of a page:

* `<p> </p>` - Anything between these tags will be in a paragraph.
* `<h1> </h1>` - Anything between these tags will be in a header. There are 6 different types of headers, h1, h2, ..., h6.
* `<b> </b>` - Anything between these tags will be **bold**.
* `<i> </i>` - Anything between these tags will be *italicized*.
* `<br>` - Creates a line break, acts like the “Enter” for HTML.
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Images can be included in HTML files using the following tag:

```
<img src='myphoto.jpg'/>
```

This tag will include the image called myphoto.

Note:

- The image must be a .jpg or .gif file
- The image must be saved in the same folder as the .html file
Any images published on a personal site must be either your own image or a public domain image.

**Public domain images** are any image where the copyright has expired, been forfeited or doesn't apply.

Places for public domain images:

- Federal Government Websites
- Wikipedia Public Domain Image listings:
  