



Web Tutorial 1

Web Tutorial 1

Over the course of today's session we'll be running through the basics of web development!

Take your time. Go at your own pace, if you don't understand anything, get stuck or have any questions just ask!

Introduction

HTML stands for **HyperText Markup Language** which was developed by scientist Tim Berners-Lee in 1990 and this language is still used today.

There has been many versions of HTML since its first release but we will be focusing on the latest version, **HTML5**.

Introduction

HTML is based around the idea, that your internet browser such as Google Chrome, Firefox, Safari or Internet Explorer reads these “markup tags” which we code. So if you code...

`My text is bold`

... your browser will show you the text **My text is bold** (in bold just like that!).

Introduction

If you open up your web browser, right click on any page and click 'View Source' you'll see a whole load of mad things wrapped in more than and less than signs. This is HTML.

Depending on the website you went on, it probably looks like a total mess that you'd never make sense of! But don't worry, it's really simple....

Introduction

Task:

1. Open web browser
2. Type <http://scratch.mit.edu/> into the url
3. Right click and view source on web page

Getting Started

Right let's get started...

There are millions of tools you can use to make web sites, but we're going start off with a really simple one.

- Open up a program called '**Notepad**' if you are on a windows computer or '**TextEdit**' if you are on Mac.

Getting Started

This is a really simple text editor we can write our HTML code in. All coders and programmers code in text editors.

- Go to file, save as, and save your blank file as “**index.html**” (without the quotation marks) and save it to the desktop.

Creating Your First Web Page

Congrats! Now on your desktop you'll have a blank webpage! But how do we put stuff into it?

If you go back to your text editor, you can just type any text you like save it, and now your page will have that text in it! But that makes it really boring and you can't do much like that!

Creating Your First Web Page

So let's introduce a few tags. Every web page should start off like this:

```
<html>  
  <head>  
    <title>My First Web Page</title>  
  </head>  
  <body>  
    Content of the page.....  
  </body>  
</html>
```

Creating Your First Web Page

You'll notice that all of these tags are placed in order, so the `<html>` tag wraps around everything on the page. This is the way the tags work. You open a tag with `<tag>` and end it with `</tag>` when you want to close it.

If you type the code into your text editor and open up the page in your browser you'll see its still blank!

Creating Your First Web Page

But in the bar at the very very top of the browser you'll see "My First Web Page"!

This is what's going on with the head and title parts! So `<head>` tells the browser everything between `<head>` and `</head>` is to do with what's going on up there.

Creating Your First Web Page

But what about between `<body>` and `</body>`?? This is where the exciting stuff happens!

Headings and Paragraphs

If you type text between `<body>` and `</body>` this will tell the browser to show that text! But it still looks a bit bunched up and together.

Creating Your First Web Page

Try adding...

<h1>My first heading**</h1>**

...in between the body tag, save it, and refresh your page to see what happens! (It should be big and black and bold!)

Creating Your First Web Page

But what about separating out text after that?

Well, try adding in a paragraph. Wrap some text in a p tag.
Like this...

`<p>your text</p>`

...after the closing h1 tag!

Creating Your First Web Page

Images

Go to google and search for an image of something you like.

Save the image to the desktop, and make sure you take note of its name and file type! **(So you're looking for “myimage.jpg” or “myimage.png”).**

Creating Your First Web Page

If you want to put this image onto your web page, you have to do something a bit more complicated.

The image tag is `` but to add the image, you have to tell the browser where the image is.

Creating Your First Web Page

To do this, you have to add an attribute to the tag. For an image, you have to tell the browser where the source is. So your image tag is...

```

```

where myimage.png is the name of your image!

Creating Your First Web Page

But what about the closing tag?

Well, because you've nothing to go inbetween it, you can use the shorthand version, so your tag becomes...

```

```

That's it! Save it and refresh your page, your image should now be there!

Creating Your First Web Page

Lets take some time to play around with more heading, text and images!

Some Tags To Play With....

Creating Your First Web Page

`<h1>`This is a heading 1`</h1>`

`<h2>`This is a heading 2`</h2>`

`<h3>`This is a heading 3`</h3>`

`<h4>`This is a heading 4`</h4>`

`<h5>`This is a heading 5`</h5>`

`<h6>`This is a heading 6`</h6>`

`<hr />`

``Emphasized Text``

``Bold Text``

``