

# DMIT 1530

Week 1  
HTML Refresher

Look, I gotta level with you:  
computers are not smart.

Computers and software (like **browsers**) do not look at things like text and images the same way that you and I do.

This is why we need **HTML**.

HTML, or hypertext markup language, is all about giving **meaning** and **structure** to content.

Without it, your browser doesn't know what your content is, or even what to do with it.

HTML is just a way of **labelling things** for the sake of all the machines or software that might be trying to figure out (interpret) our websites.

So, what does HTML look like?

# Syntax

And other fancy-sounding words.

```
<element> Some content here. </element>
```



Most of the time, HTML is written with an **opening tag** and a **closing tag**. Your content belongs between the two tags.

There are some elements (called **void elements**) that only have one tag (i.e. they are self-closing).

Can you think of some examples?

```
<!-- Void Element Examples -->
```

```

```

```
<input id="first-name" name="first-name">
```

```
<hr>
```

HTML tags can also have **attributes**. Attributes provide additional information about an element.

For example, the `src` attribute tells the browser where it can find an image file.

HTML elements can go inside one another.  
This is called **nesting**.

Remember that if an element **starts inside** another element, it must also **close inside** of that element.

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>A Totally Semantic Title</title>
  </head>
  <body>
    <h1>Hello, world!</h1>
  </body>
</html>
```

# Bits & Bobs

It's all terribly technical from here on out, I'm afraid.

Let's go through some HTML elements that you've likely seen before.



## Required Tags

`<!DOCTYPE html>`

This technically isn't a tag, but a declaration. It tells your browser that everything that follows is written in HTML.

`<html>`

This is the grandfather of all tags. Everything goes inside of here.

## Required Tags (cont'd)

### <head>

The head contains instructions to the browser. Nothing that the user sees should go here.

### <body>

All of your content goes here (including all of your containers and sectioning elements).

## <head> Tags

### <link>

This tag can point to resources like web fonts or stylesheets.

### <title>

This is the title for your web page. It needs to be semantic, or indicative of the page's contents.

### <meta>

This can set all sorts of cool stuff. We'll be learning a bunch of meta tags later on.

## (A Few) Content Tags

`<img>`

An image. This is a void element.

`<p>`

A paragraph. Most text content will be marked up with this tag.

`<h1>`

A heading. While there can only be one first-level heading per page, there can be multiple other levels of headings.

## Lists

`<ol>`

An ordered (numbered) list. In this case, the order or sequence matters. For example, you could be ranking your five favourite games, or giving directions.

`<ul>`

An unordered (bullet) list. In this case, the order doesn't matter.

`<li>`

A list item. This goes inside of `<ol>` and `<ul>`.

## Container (Sectioning) Elements

<header>, <main>, <footer>

<section>

<nav>

<article>

## Non-Semantic Elements

`<div>`, `<span>`

These elements don't actually mean anything. Instead, they're meant to partition off content so that it can be targeted through CSS or JS later on.

`<div>` is a block-level element, while `<span>` is inline.