

HTML

Sir, I noticed earlier the hyperdrive motivator has been damaged. It's impossible to go to lightspeed!"

- C-3PO

HTML : HYPERTEXT

MARKUP LANGUAGE

HTML is the markup language of the web. Unlike a programming language, html doesn't really 'do' anything. It is simply designed to define and structure the webpage.

```
<h1>Ruh gwyaaaag.</h1>
<div>Guhaw maw ohyah?</div>
<span>Arrrrrrwrrrrrrrrronnkkk raarrh</span>
<span>Ruuh-r-ahr ahowww gruh-row-ow.</span>
<p>Aaawww roowwr rrrraahhhrr. Woogaah. Huu hawaaaah h
<hr>


  <li>Aaaarrrr wgh ggwaaah.</li>
  <li>Yu guwah mah oowhama?</li>
  <li>Gu waagaa ahawag?</li>
</ul>
```

Html is made up of elements. Elements are created with tags.

Tags are created by combining (<) tag name (>)

The tag must be closed. Normally that is with a closing tag after the content of the element. Closing tags are created similar except you have a (/) directly after the (<)

Text content and other elements can be inside of the opening and closing tag. However the level needs to match or the html document will render improperly.

Most tags can go almost anywhere in the document, but there are a few that need to be in a special location for them to do their job correctly.

the head and title tags are two examples.

Most tags only apply different looks because of the styling. For example there is nothing in HTML that says the h1 tag has to be bold and larger.

The default look or behavior can be overwritten, but the default styles do have an impact on the look of the document. Some content will run across and some will stack.

Elements that take up all of the horizontal space (IE forcing the other elements to drop down) are called Block Level. Ones that run together are called inline.

Some elements can close without a closing tag. `hr` tag does this. `hr` doesn't need any content so it is
allowed to self close

ⓘ `hr` means thematic break but is displayed defaultly as a horizontal rule.

ⓘ (For various reasons the meaning was changed, but the tag and default style stayed the same)

html elements can have attributes. They are inside the opening tag of an element and are the attribute name with the (=) then the attribute value in double (") or single (') quotes.

Some attributes are valid for almost all element. Some attributes are required for the element to function properly.

the img (image) tag requires the src (source) attribute. The a (link) tag require a (href) attribute.

custom attributes are allowed. It must be prepended with 'data-' to be valid. Most often used in conjunction with javascript to allow do special things.

It can be used with css (styling)... However ... it is best practices to not use elements to state the style or look of an element.

Many elements are designed to go together. like ul (unordered list) and li (list item).

Biggest thing to watch out for: The opening and closing tag are on the same level
and there are no dangling tags in-between.