Html is not a programming language; it is a markup language that tells the browser how to structure a webpage. It consists of a series of elements, defined via tags. These are used to mark up content in a way that the browser knows how to render.

An element consists of an opening tag, content, and a closing tag. A tag has a predetermined meaning and it tells the browser how to render the content contained within the element.

Elements can be placed within other elements (with certain boundaries).

Front end tools are usually very loose in their interpretation of rules- so be careful as to your intentions.

Block level element appears on a new line and from the structural part of the page.

Inline elements appear between block level elements and usually do not appear on a new line.

Html 5 has defined specifications for element content categories. They are explained at <https://html.spec.whatwg.org/multipage/indices.html#element-content-categories>.

**Empty elements**

Some elements are used to embed information in the web page which do not need closing tags- img, href etc. They are called void elements.

**Attributes:**

Attributes have extra information as to how to render an element.

Eg, class is the attribute and regular is the name of the style sheet. Note that the path given here is relative.

<p class= ”regular”> My Cat’s name is Alex</p>.

Anchor element has many attributes.

<a>

Href- hyperlink reference.

Title- content displayed.

Target- \_blank will open the link in a new tab.

Boolean attributes have only one value.

If you want to use characters that have special meaning in html, please check this guide

<https://en.wikipedia.org/wiki/List_of_XML_and_HTML_character_entity_references>

Head

Head contents are not displayed on the page.

Use absolute paths for pages outside of your website and relative links when inside your web site.

HTML document structure

* **header:**[<header>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/header).
* **navigation bar:**[<nav>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nav).
* **main content:**[<main>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/main), with various content subsections represented by [<article>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article), [<section>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/section), and [<div>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/div) elements.
* **sidebar:**[<aside>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/aside); often placed inside [<main>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/main).
* **footer:**[<footer>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/footer).

img element to insert an image on your page.

**Important elements:**

<em> italicize text.

<p> paragraph

<a> anchor.

CSS