**HTML5**

**NAVIGATION:**

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**HTML5 syntax**

The first line for the syntax of an html page begins by specifying the **doctype**. This is important to ensure that the browser can determine the version and follow the standard of the page. The doctype element is not case sensitive.

<!DOCTYPE html>

The page is enclosed in an **<html>** element. The attribute **lang** is used to specify the language of the page.

<html lang=”en”> </html>

Inside the <html>element is the **<head>** element which may contains the **title, meta, base, link, style, script**, and other element that describes the description of the web page. HTML also uses the **<body>** element after the <head> element, this contains all the element that will be translated by the browser as a web page.

Sample html5:

<!DOCTYPE html>

<html lang=”en”>

<head>

<title> Sample Code </title>

<meta charset=”utf-8”/>

<link rel=”Stylesheet” type-“text/css” href=”styles/styles.css”>

</head>

<body>

<h1> This is a sample code for webtech project </h1>

</body>

</head>

</html>

**New Elements**

These elements are used to improve the structure for HTML5

* section
* article
* main
* aside
* header
* footer
* nay
* figure
* template

New elements used in HTML5

* video
* audio
* track
* embed
* mark
* progress
* meter
* time
* ruby
* bdi
* wbr
* canvas
* datalist
* keygen
* output

**//link the documents in w3c “New Elements”**

[**https://www.w3.org/TR/2014/NOTE-html5-diff-20141209/#new-elements**](https://www.w3.org/TR/2014/NOTE-html5-diff-20141209/#new-elements)

**Obsolete Elements**

These elements are not used in html5 because its functions are presentational and to be transferred in CSS.

* basefont
* big
* center
* font
* strike
* tt

These elements are not used in html5 because it can damage the form and function of the web page.

* frame
* frameset
* noframes

**//link the documents in w3c “Obsolete Elements”**

[**https://www.w3.org/TR/2014/NOTE-html5-diff-20141209/#obsolete-elements**](https://www.w3.org/TR/2014/NOTE-html5-diff-20141209/#obsolete-elements)

**Kinds of Content**

The kinds of content groups an element together base on their function and similarities.

1. **Metadata Content**

* These elements describes other details about the hompage. These elements are used inside the <head> element.

**Elements:**

* Base, link, meta, noscript, script, style, template, title

1. **Flow Content**

* The elements that belongs in the flow content are the elements used inside the <body> element

**Elements:**

* [a](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-a), [abbr](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-abbr), [address](https://www.w3.org/TR/html52/grouping-content.html#elementdef-address), [area](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-area), [article](https://www.w3.org/TR/html52/sections.html#elementdef-article), [aside](https://www.w3.org/TR/html52/sections.html#elementdef-aside), [audio](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-audio), [b](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-b), [bdi](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-bdi), [bdo](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-bdo), [blockquote](https://www.w3.org/TR/html52/grouping-content.html#elementdef-blockquote), [br](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-br), [button](https://www.w3.org/TR/html52/sec-forms.html#elementdef-button), [canvas](https://www.w3.org/TR/html52/semantics-scripting.html#elementdef-canvas), [cite](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-cite), [code](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-code), [data](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-data), [datalist](https://www.w3.org/TR/html52/sec-forms.html#elementdef-datalist), [del](https://www.w3.org/TR/html52/edits.html#elementdef-del), [details](https://www.w3.org/TR/html52/interactive-elements.html#elementdef-details), [dfn](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-dfn), [dialog](https://www.w3.org/TR/html52/interactive-elements.html#elementdef-dialog), [div](https://www.w3.org/TR/html52/grouping-content.html#elementdef-div), [dl](https://www.w3.org/TR/html52/grouping-content.html#elementdef-dl), [em](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-em) , [embed](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-embed), [fieldset](https://www.w3.org/TR/html52/sec-forms.html#elementdef-fieldset), [figure](https://www.w3.org/TR/html52/grouping-content.html#elementdef-figure), [footer](https://www.w3.org/TR/html52/sections.html#elementdef-footer), [form](https://www.w3.org/TR/html52/sec-forms.html#elementdef-form), [h1](https://www.w3.org/TR/html52/sections.html#elementdef-h1), [h2](https://www.w3.org/TR/html52/sections.html#elementdef-h2), [h3](https://www.w3.org/TR/html52/sections.html#elementdef-h3), [h4](https://www.w3.org/TR/html52/sections.html#elementdef-h4), [h5](https://www.w3.org/TR/html52/sections.html#elementdef-h5), [h6](https://www.w3.org/TR/html52/sections.html#elementdef-h6), [header](https://www.w3.org/TR/html52/sections.html#elementdef-header), [hr](https://www.w3.org/TR/html52/grouping-content.html#elementdef-hr) , [i](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-i) , [iframe](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-iframe), [img](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-img), [input](https://www.w3.org/TR/html52/sec-forms.html#elementdef-input), [ins](https://www.w3.org/TR/html52/edits.html#elementdef-ins), [kbd](https://www.w3.org/TR/html52/textlevel-semantics.html" \l "elementdef-kbd), [label](https://www.w3.org/TR/html52/sec-forms.html#elementdef-label), [link](https://www.w3.org/TR/html52/document-metadata.html#elementdef-link), [main](https://www.w3.org/TR/html52/grouping-content.html#elementdef-main), [map](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-map), [mark](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-mark), MathML, [math](https://www.w3.org/TR/MathML/chapter2.html#interf.toplevel), [meter](https://www.w3.org/TR/html52/sec-forms.html#elementdef-meter), [nav](https://www.w3.org/TR/html52/sections.html#elementdef-nav), [noscript](https://www.w3.org/TR/html52/semantics-scripting.html#elementdef-noscript), [object](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-object), [ol](https://www.w3.org/TR/html52/grouping-content.html#elementdef-ol), [output](https://www.w3.org/TR/html52/sec-forms.html#elementdef-output), [p](https://www.w3.org/TR/html52/grouping-content.html#elementdef-p), [picture](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-picture), [pre](https://www.w3.org/TR/html52/grouping-content.html#elementdef-pre), [progress](https://www.w3.org/TR/html52/sec-forms.html#elementdef-progress), [q](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-q), [ruby](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-ruby), [s](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-s), [samp](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-samp), [script](https://www.w3.org/TR/html52/semantics-scripting.html#elementdef-script), [section](https://www.w3.org/TR/html52/sections.html#elementdef-section), [select](https://www.w3.org/TR/html52/sec-forms.html#elementdef-select), [small](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-small), [span](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-span), [strong](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-strong), [style](https://www.w3.org/TR/html52/document-metadata.html#elementdef-style), [sub](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-sub), [sup](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-sup), SVG, [svg](https://www.w3.org/TR/svg2/struct.html#elementdef-svg), [table](https://www.w3.org/TR/html52/tabular-data.html#elementdef-table), [template](https://www.w3.org/TR/html52/semantics-scripting.html#elementdef-template), [textarea](https://www.w3.org/TR/html52/sec-forms.html#elementdef-textarea), [time](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-time), [u](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-u), [ul](https://www.w3.org/TR/html52/grouping-content.html#elementdef-ul), [var](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-var), [video](https://www.w3.org/TR/html52/semantics-embedded-content.html#elementdef-video), [wbr](https://www.w3.org/TR/html52/textlevel-semantics.html#elementdef-wbr), [text](https://www.w3.org/TR/html52/dom.html#text-content).

1. **Sectioning Content**

**Elements:**

* Article, aside, nav, section

1. **Heading Content**

* Elements that functions as a header for the webpage

**Elements:**

* h1, h2, h3, h4, h5, h6

1. **Phrasing Content**

**Elements:**

* a, abbr, area, audio, b, bdi, bdo, br, button, canvas, cite, code, data, datalist, del, dfn, em, embed, I, iframe, img, input, ins, kbd, label, link, map, mark, math, meter, noscript, object, output, picture, progress, q, ruby, s, samp, script, select, small, span, strong, sub, sup, svg, template, textarea, time, u, var, video, wbr, text.

1. **Embedded content**

* These elements imports another resources.

**Elements:**

* audio, canvas, embed, iframe, img, math, object, picture, svg, video

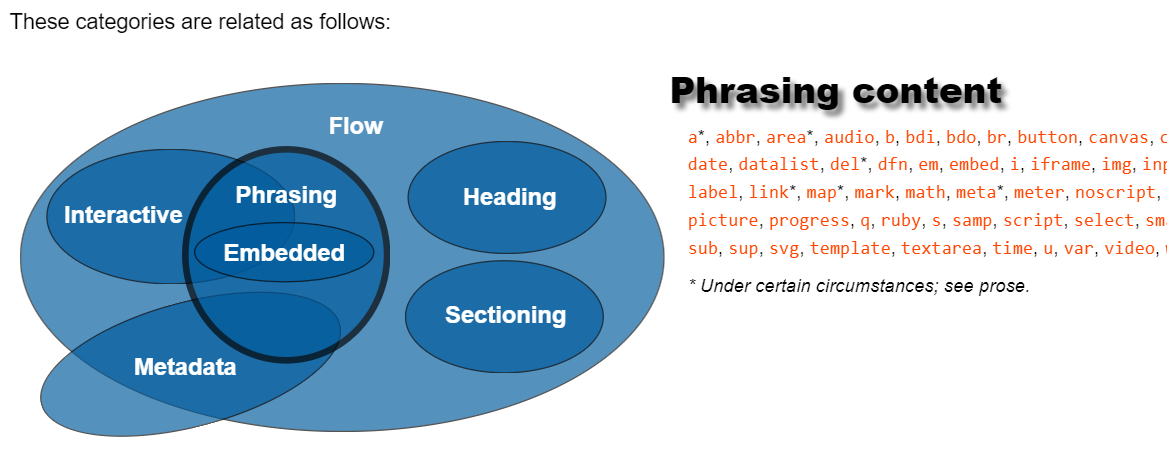
1. **Interactive Content**

* These elements is used for interaction on user.

**Elements:**

* a, audio, button, details, embed, iframe, img, input, label, select, textarea, video

//can you recreate this?



**Global attributes**

* these attributes are accessible by all elements.

**Attributes:**

* accesskey, class, contenteditable, dir, draggable, hidden, id, lang, spellcheck, style, tabindex, title, translate

References

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<https://www.w3.org/TR/2014/NOTE-html5-diff-20141209/#new-elements>

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