# Marking up text

Web development I: Front-end engineering

#### Document structure



```
<!doctype html>
<html>
    <head>
        <!-- metadata -->
    </head>
    <body>
        <!-- content -->
    </body>
</html>
```



New [tags adde	ed in HTML5] self-contained composition is independently distributal
<aside></aside>	section of page that cons of content tangentially related to content aroun
<audio></audio>	sound content
<bdi></bdi>	span of text to be isolated surroundings for bidirectio formatting purposes
<canvas></canvas>	area that can be used to draw graphics via JavaScr
<command/>	user invokable comman
<datalist></datalist>	dropdown list
<datatemplate></datatemplate>	data template

<details> <embed> <figcaption> <figure>

<footer> <header> header for section or page <hgroup> <keygen> <mark> <meter> <video>

code text

<nav>

<code>

<hr>

represents results of calculation <output> cprogress> <rp> parenthesized ruby text <rt> <ruby> <section> section in a document <source> <summarv>

<time>

<wbr>>

<html>

<fn> <font> <frame> <frameset>

<object>

<strong>

<style>

Old [unsupported tags]

<isindex> <acronym> <applet>

<base> <bgsound> <br/>
<br/>
dig> <center> centered text

<dir> <noembed> no embed section no frame section <5> <strike> <tt> text font, size, and color <mp>> preformatted text

<sub>

#### Existing [tags in HTML4 & 5]

.............

|                           | document type   |
|---------------------------|---|
| <a></a>                   | hyperlink   |
| <abbr></abbr>             | abbreviation  |
| <address></address>       | address element   |
| <area/>                   | image map area  |
| <b></b>                   | bold text   |
| <base/>                   | base URL for all links in page<br>relative to document root |
| <bdo></bdo>               | text direction  |
| <blookquote></blookquote> | long quotation  |
| <body></body>             | body element  |
| <br>dr>                   | single line break   |
| <button></button>         | push button   |
| <caption></caption>       | table caption   |
| <cite></cite>             | citation  |

<colgroup> groups of columns <dd> definition description <del> deleted text generic block-level element defining instance of a term ..... definition list definition term <dt> emphasized text <fieldset> logically group items in a form <form> defines a form <h1> to <h6> header 1 to header 6 <head> document information

horizontal rule

<iframe> inline sub window ..... <img> image ..... <input> inserted text <kbd> kevboard text <label> label for a form control <legend> title in a fieldset ..... k> resource reference <map> image map <menu> menu list <meta> meta information <noscript> no script section

html document

.....

............. <0l> <optgroup> option group <option> option in a drop-down list parameter for an object <param> ..... preformatted object <q> <samp> sample computer code ..... <script> <select> selectable list <small> <span> inline generic container

strong text

style definition

embedded object

<sup> table table body table cell <textarea> text area <tfoot> table footer table header <thead> table headers <title> document title table row unordered list variable <var>

provides searchable index

teletype text

subscripted text

related to current document



#### Document metadata



<a href="head"><head></a> Metadata container

<title> Document title

<a href="#"><base></a>
<a href="#">Base URL to resolve all relative URLs</a>

<link>
External resource

<u><style></u> Styling information

<script>
Scripting

<meta>
Other metadata: charset, name/content pairs, etc.

## Content sectioning



<body>

<main>

<article>

<u><section></u>

<header>

<footer>

<aside>

Document body container

Dominant content

Self-contained composition (e.g. blog post, card)

Generic standalone section

Introductory content

Colophon: copyright, further reading, etc.

Content indirectly related to the main content

## Content sectioning



<u><nav></u>

<h1>, ..., <h6>

<address>

**Navigation links** 

Headings

Contact information

#### Text blocks



<div>

>

<

<figure>

<figcaption>

<blockquote>

<u><hr></u>

Generic block container

Paragraph

Preformatted text

Self-contained content

Caption describing the <figure>

Long quotation

Horizontal rule (thematic break)

## Lists



<u></u>

<u></u>

<1i>>

<u><dl></u>

<u><dt></u>

<u><dd></u>

Ordered list

Unordered list

List item

Description list

Term name

Term description



<a>

<i>>

<u><em></u>

<<u>b></u>

<strong>

<u><u></u>

 $\leq$ mark $\geq$ 

Hyperlink (was anchor)

Idiomatic text (was italic)

Idiomatic text (better semantics)

Important text (was bold)

Important text (better semantics)

Unarticulated text (was underline)

Highlighted text



<s>

 $\leq del \geq$ 

<ins>

<ruby>

<rp>

<u><rt></u>

<u> <bdo></u>

<bdi>

Non-relevant or non-accurate text

Deleted text

Inserted text

Typography annotation

Fallback parenthesis

Pronunciation, transliteration, etc.

Bidirectional text override

Bidirectional text isolation



 $\leq$ small>

<sub>

<sup>

 $\leq wbr >$ 

<u> <br></u>

<span>

<code>

<data>

Small print

Subscript

Superscript

Word break opportunity

Line break

Generic inline container

Computer code

Machine-readable text



<cite>

<

 $\leq samp >$ 

<time>

<abbr>

<var>

<dfn>

<kbd>

Citation or reference

Short quotation

Sample output code

Time or date

Abbreviation

Math variable

Definition

User input

#### Multimedia



<img>

<picture>

<audio>

<u><video></u>

<source>

<track>

<u><map></u>

<area>

Image

Alt. image container

Sound content

Video content

Media source

Timed text (e.g. subtitles)

Image map

Clickable map area

#### Embedded content



<embed>

<object>

<param>

<iframe>

<portal>

<pvq>

<math>

External resource (deprecated)

External resource

Object parameters

External page

Page preview

Scalable Vector Graphics

MathML expressions

## Scripting



<script>

<noscript>

<canvas>

Executable code or data

Scripting fallback content

Graphics and animations

## Tables



Tabular data

<thead>
Table header

Cell header

Cell data

<tfoot> Table footer

## Tables



<caption>

<colgroup>

<u><col></u>

Table caption

Group of columns

Column description

#### Forms



<form>

<fieldset>

<legend>

<input>

<textarea>

<label>

<select>

<optgroup>

<option>

Section with interactive controls

Controls group

Fieldset caption

Several types of text input

Multi-line text input

Item caption

Selectable menu

Group of menu options

Menu option

#### Forms



<label>

<button>

<output>

<datalist>

cprogress>

<meter>

<dialog>

<details>

<summary>

Caption for <u>labelable</u> elements

Clickable button

Results of a calculation

List of suggestions

Progress indicator

Range indicator

Modal pop-up

Disclosure widget

Caption of a disclosure widget

## Web components



<template>

Custom HTML element

<slot>

Template placeholder

See <a href="https://developer.mozilla.org/en-US/docs/Web/Web\_Components">https://developer.mozilla.org/en-US/docs/Web/Web\_Components</a>