

1 Syntax to write an HTML element

Opening Tag

Every element has an opening tag with the name of the element at its start.

Attribute and its value (optional)

Attributes are like options of an element. Attributes have value.

```
<name attr="value">
...children
</name>
```

Closing Tag

A closing tag has the name of the element with a forward slash "/" before it.

Children (optional)

Between the opening and closing tags are the children of the element. This can be more elements or just plain text.

```
<name attr="value" />
```

Self-Closing Tag

Some elements that do not have children do not need a closing tag. In this case a forward-slash "/" is added to the element's opening tag to denote a self-closing tag.

Some examples of self-closing elements are:
img, br, hr, meta, input

2 Basic markup of every HTML page

```
<!DOCTYPE html>
<html lang="en">
  <head>
    ...page title here
    <title>
    ...</title>
  </head>

  <body>
    ...
    page content
    goes here
    ...
  </body>
</html>
```

Code Formatting

For good code formatting, remember to indent the children by 2 or 4 spaces.

3 Commonly used HTML elements

```
<h1> ... <h6>
<p>
<i> <strong>
<a>
<div>
<span>
```

lists:

```
<ul> <ol> <li>
```

Special formatting

```
<blockquote> <pre>
```

multimedia:

```
<img /> <video>
<audio>
```

separators:

```
<hr /> <br />
```

① Syntax to write CSS

Selectors

The element(s) on which the style should be applied

Property and its value

This is the actual style to be applied to the element(s)

```
selectors {
  ...property: value;
}
```

② 3 places to write CSS

(A) Inline styles

```
<element style="property: value;">
```

(B) In the <style> element

```
<head>
...<style>
..... selectors { property: value; }
...</style>
</head>
```

(C) In a dedicated file (style.css) & refer that file via the <link> element

```
<head>
...<link rel="stylesheet"
..... href="style.css" />
</head>
```

③ Selectors and their syntax

Basic Selectors

```
elementname
.classname
#idname
[attr=value]
*
```

Combinators

```
selectorA + selectorB  Adjacent sibling
selectorA ~ selectorB  General sibling
parent > child          Direct child
parent descendant      Descendent
```

Pseudo Selectors

```
:active
: hover
:visited
:focus
```

④ Common CSS properties (by group)

TEXT:

```
color
font
font-family
font-size
font-weight
letter-spacing
line-height
text-align
text-decoration
text-indent
text-transform
vertical-align
```

LIST:

```
list-style
list-style-image
list-style-position
list-style-type
```

BACKGROUND:

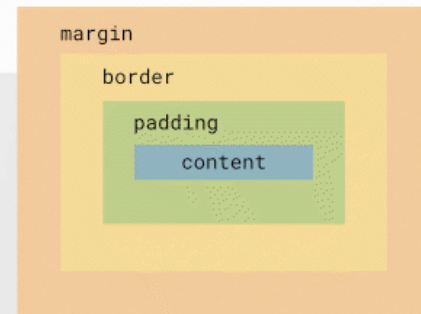
```
background
background-attachment
background-color
background-image
background-position
background-repeat
```

DISPLAY:

```
display
float
clear
overflow
visibility
```

OTHER:

```
cursor
```



BOX:

```
border
border-color
border-style
border-width
height
margin
padding
width
box-sizing
```

POSITION:

```
position
top
bottom
left
right
z-index
```