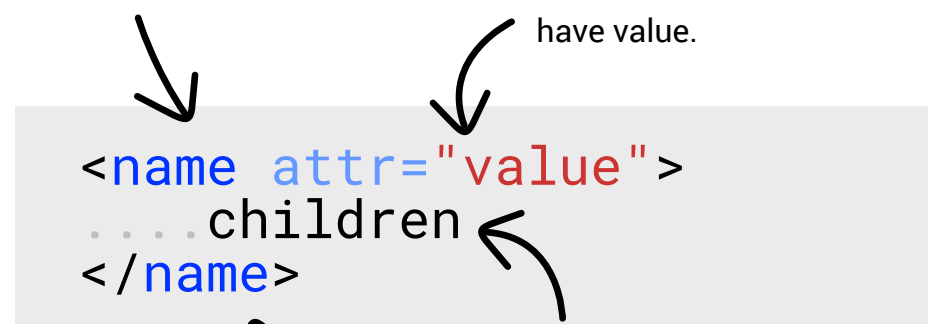## ① Syntax to write an HTML element

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

Attribute and its value (optional)
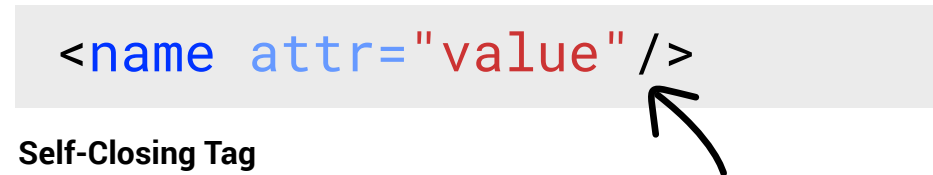Attributes are like options of an element. Attributes have value.

```
<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>
        <title>
            page title here
        </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 />
```

CSS Cheatsheet

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 descendent	Descendent

Pseudo Selectors

| :active |
| :hover |
| :visited |
| :focus |

④ Common CSS properties (by group)

```
margin
  border
    padding
      content
```

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

BACKGROUND:
background
background-attachment
background-color
background-image
background-position
background-repeat

DISPLAY:
display
float
clear
overflow
visibility

LIST:
list-style
list-style-image
list-style-position
list-style-type

OTHER:
cursor

BOX:
border
border-color
border-style
border-width
height
margin
padding
width
box-sizing

POSITION:
position
top
bottom
left
right
z-index