**Assignment**

**HTML:**

HTML stands for Hyper Text Markup Language.

**Hypertext:**

Hypertext is a text which contains links that can be linked to another document or text. Hypertext covers both textual hyperlinks and graphical ones. The term was coined by Ted Nelson around 1965.

**Markup Language:**

A markup language is a computer language that uses tags for the processing, definition and presentation of text.

**HTML is a machine-readable data.**

**Semantic Element:**

A semantic element clearly describes its meaning to both the browser and the developer.

**Semantic elements name:**

* <article>
* <aside>
* <details>
* <figcaption>
* <figure>
* <footer>
* <header>
* <main>
* <mark>
* <nav>
* <section>
* <summary>
* <time>
* <form>
* <table>
* <article>
* <ul>
* <ol>
* <address>
* <audio>
* <video>
* <img>
* <h1> to <h6>
* <strong>
* <mark>
* <cite>
* <blockquote>
* <a>
* <p>
* <hr>

**Block level element:**

A block-level element always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).

Example:

<div>Hello</div>

<h1>Hello</h1>

<p>Hello</p>

**Inline level element:**

An inline element does not start on a new line and only takes up as much width as necessary.

Example:

<span>Hello</span>

<img src=”a.jpg” alt=””>

<a href=”#”>FB</a>

**CSS Selector:**

**Basic Selector**

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| --- | --- | --- |
| Selector | Description | Example |
| element | **Type** selector. Matches an element. | p{color: red;}  a{text-decoration: none;} |
| .class | **Class** selector. Matches the value of a class attribute. | .header{background-color: red;} |
| #id | **ID** selector. Matches the value of an id attribute. | #id{color:#fff;} |
| \* | **Universal** selector. Matches everything. | \*{margin:0; padding:0} |

**Attribute Selector**

|  |  |  |
| --- | --- | --- |
| Selector | Description | Example |
| [attribute] | Matches elements **containing a given attribute**. | a[href] {color: red;} |
| [attribute="x"] | Matches elements **containing a given attribute with a given value**. | a[href="/sitemap/"] {color: red;} |
| [attribute~="x"] | Matches elements containing a given attribute with a value that contains a sub-value within a **space-separated list**. | abbr[title~="Style"] {color: red;} |
| [attribute|="x"] | Matches elements containing a given attribute with a value that contains a sub-value within a **hyphen-separated list**. | html[lang|="en"] {color: red;} |
| [attribute^="x"] | Matches elements containing a given attribute with a value that **starts** with something. | a[href^="http://"] {color: red;} |
| [attribute$="x"] | Matches elements containing a given attribute with a value that **ends** with something. | a[href$=".com"] {color: red;} |
| [attribute\*="x"] | Matches elements containing a given attribute with a value that **contains** something. | a[href\*="htmldog"] { color: red; } |

**Pseudo-classes**

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| --- | --- | --- |
| Selector | Description | Example |
| :link | Matches a **link that has not been visited**. | a:link { color: blue;} |
| :visited | Matches a **link thas has been visited**. | a:visited { color: purple; } |
| :hover | Matches an element whose box is being **hovered over** by a cursor. | a:hover { text-decoration: none; } |
| :focus | Matches an element that has **focus**, such as one that has been tabbed to. | a:focus { border: 1px solid yellow; } |
| :first-child | Matches the **first child** of an element. | p:first-child { color: red; } |
| :last-child | Matches the **last child** of an element. | div p:last-child { color: blue; } |
| :nth-child() | Matches an element that is the **ordinal number child** of its parent. | p:nth-child(3) { color: red; } |

**Pseudo-elements**

|  |  |  |
| --- | --- | --- |
| Selector | Description | Example |
| ::first-line | Matches the **first textual line** in an element. | p::first-line { font-weight: bold; } |
| ::first-letter | Matches the **first letter** in an element. | p::first-letter { font-size: 2em; } |
| ::before | Used with the [content](http://htmldog.com/references/css/properties/content/) property to generate content **before** the initial content of an element. | h1::before { content: "\*"; } |
| ::after | Used with the [content](http://htmldog.com/references/css/properties/content/) property to generate content **after** the initial content of an element. | h1::after { content: "+"; } |

**Combinators**

|  |  |  |
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| Selector | Description | Example |
| selector selector | **Descendant** combinator. Matches elements that are descendants of another element. | aside p { color: red; } |
| selector > selector | **Child** combinator. Matches elements that are children of another element | .warning > p { color: red; } |
| selector + selector | **Adjacent sibling** combinator. Matches elements that immediately follow another element. | h1 + \* { color: red; } |
| selector ~ selector | **General sibling** combinator. Matches elements that follow another element. | h2 ~ p { color: red; } |