

## Module 5.5-[Bonus] Box model,pseudo class, position

### 5\_5-1 Understand inline, block, inline-block elements

Shortcut:

```
1. Div*3=> <div></div>
2.          <div></div>
3.          <div></div>
```

4.

```
5. div*3>h2
6.   <div>
7.     <h2></h2>
8.   </div>
9.   <div>
10.    <h2></h2>
11.  </div>
12.  <div>
13.    <h2></h2>
14.  </div>
```

15.

16.

```
17. div*3>h2+p
18.   <div>
19.     <h2></h2>
20.     <p></p>
21.   </div>
22.   <div>
23.     <h2></h2>
24.     <p></p>
25.   </div>
26.   <div>
27.     <h2></h2>
28.     <p></p>
29.   </div>
```

30.

```
31. div*3>h2{Room-$}+p{Hamid}
32.   <div>
33.     <h2>Room-1</h2>
34.     <p>Hamid</p>
35.   </div>
36.   <div>
37.     <h2>Room-2</h2>
38.     <p>Hamid</p>
```

```
39.     </div>
40.     <div>
41.         <h2>Room-3</h2>
42.         <p>Hamid</p>
43.     </div>
```

```
<!--Inline element-->
    <span>Hamid</span>
    <span>Hosen</span>
    <span>Azad</span>

    <a href="www.google.com">go to google</a>
    <a href="www.google.com">go to google</a>
    <a href="www.google.com">go to google</a>
    <a href="www.google.com">go to google</a>

<!--Block element-->
<div>
    <h2>Room-1</h2>
    <p>Hamid</p>
</div>
<div>
    <h2>Room-2</h2>
    <p>Hamid</p>
</div>
<div>
    <h2>Room-3</h2>
    <p>Hamid</p>
</div>
```

## HTML Block and Inline Element:

### Block Level element:

A block-level element always starts on a new line.

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

A block level element has a top and a bottom margin, whereas an inline element does not.

[<address>](#)

<article>  
<aside>  
<blockquote>  
<canvas>  
<dd>  
<div>  
<dl>  
<dt>  
<fieldset>  
<figcaption>  
<figure>  
<footer>  
<form>  
<h1>-<h6>  
<header>  
<hr>  
<li>  
<main>  
<nav>  
<noscript>  
<ol>  
<p>  
<pre>  
<section>  
<table>  
<tfoot>  
<ul>  
<video>

### **Inline element:**

An inline element does not start on a new line.

An inline element only takes up as much width as necessary.

<a>  
<abbr>  
<acronym>  
<b>  
<bdo>  
<big>  
<br>  
<button>  
<cite>  
<code>  
<dfn>

<em>  
<i>  
<img>  
<input>  
<kbd>  
<label>  
<map>  
<object>  
<output>  
<q>  
<samp>  
<script>  
<select>  
<small>  
<span>  
<strong>  
<sub>  
<sup>  
<textarea>  
<time>  
<tt>  
<var>

Block line to Inline convert: CSS- > `display: inline;`

Inline to Block line convert : CSS-> `display: block;`

**Block Line: height and width work**

**Inline : height and width not work** but (CSS-display:inline-block use) than height and weight work.

## 5\_5-2 CSS box model, div vs span, border image slice

### Div vs span:

Span and div are both generic HTML elements that group together related parts of a web page. ... A **div element is used for block-level organization and styling** of page elements, whereas a span element is used for inline organization and styling.

## 5\_5-3 Pseudo class hover, class hover, visited, focus

## Hover:

```
h1:hover
{
  color: royalblue;
  background-color: skyblue;
  margin: 50px;
  padding: 50px;
  font-size: 50px;
  font-weight: bold;
}
```

## Focus:

```
.middle:focus
{
  color: springgreen;
  font-size: 20px;
  border-radius: 50px;
  border-color: red;
}
```

## Visited:

```
a:visited
{
  color: royalblue;
}
```

# What are Pseudo-Elements?

A CSS pseudo-element is used to style specified parts of an element.

For example, it can be used to:

- Style the first letter, or line, of an element
- Insert content before, or after, the content of an element

A CSS pseudo-element is **a keyword added to a selector that lets you style a specific part of the selected element(s)**. For example, `::first-line` can be used to change the font of the first line of a paragraph.

## 5\_5-4 First child, nth child, pseudo element before after

First child nth child:

```
li:first-child
{
    color: red;
}
li:last-child
{
    background-color: salmon;
}
li:nth-child(2n)
{
    color: springgreen;
}
li:nth-child(2n+1)
{
    background-color: green;
}

<ul>
  <li>Hamid</li>
  <li>Hosen</li>
  <li>Azad</li>
  <li>Fahim</li>
  <li>Riad</li>
  <li>Moinul</li>
  <li>Moinul</li>
  <li>Moinul</li>
  <li>Moinul</li>
  <li>Moinul</li>
</ul>
```

Pseudo element before after:

```
h3::before
```

```

{
  content: "Hamid Hosen";
}
h3::after
{
  content: 'Hosen';
  color: green;
}
.spacial::after
{
  content: "Azad";
  color: greenyellow;
}

<h3>middle -1</h3>
<h3 class="spacial">middle -2</h3>
<h3>middle -3</h3>
<h3 class="spacial">middle -4</h3>
<h3>middle -5</h3>
<h3>middle -6</h3>

```

## 5\_5-5 Position static relative absolute fixed sticky z-index

Link= [https://www.w3schools.com/css/css\\_positioning.asp](https://www.w3schools.com/css/css_positioning.asp)

# The position Property

The **position** property specifies the type of positioning method used for an element.

There are five different position values:

- **static**
- **relative**
- **fixed**
- **absolute**
- **sticky**

```

<style>
.swimming {

```

```
    position: relative;
}
.swimming div {
    border: 1px dashed red;
    width: 200px;
}
#boy
{
    position: relative;
    top: 75px;
    z-index: 100;
}
#ring {
    position: relative;
    z-index: 1;
}
/*
#ring {
    position: sticky;
    left: 0px;
    top: 100px;
}
/*
#ring {
    position: fixed;
    left: 0px;
    top: 100px;
}
#ring {
    position: absolute;
    left: 0px;
    top: 100px;
}
*/
#water {
    position: relative;
    top: -75px;
}

.dummy {
    height: 100px;
    width: 100px;
    background-color: yellow;
}
</style>
```



