

Agenda :

- CSS {What , Why} ✓
- Inline , Internal , External ✓
- Box Model - Height , Width , Border , Padding , Margin. ✓
- Power of CSS : Specificity. ✓
- Rules : Inheritance , Rule Order , Style Rule Hierarchy ✓
- Identity : class and Id. ✓
- Combinator & Selectors. ✓
- Element , Id , Class , Universal , Group , Attribute ✓

Next
Sessi

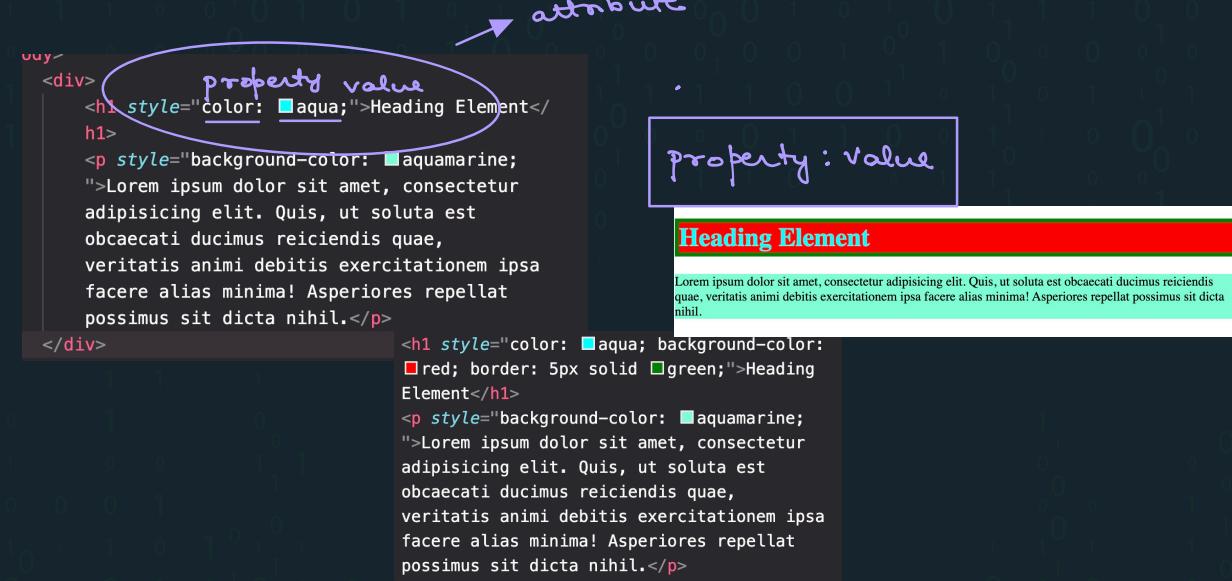
- Pseudo Class Selector : [:]
 - first-child() , last-child() , nth-child() , nth-last-child() , first-of-type() , not() , empty , link , visited , hover , active , etc..
- Pseudo Element Selector: [::]
 - first-line , first-letter , before , after , marker , selection.

What is CSS [Cascading Style Sheet]

- styles to our webpage.
- it beautifies the webpage.
- It makes our website more attractive.

CSS Types:

Inline CSS:



```

<div>
  <h1 style="color: aqua;">Heading Element</h1>
  <p style="background-color: aquamarine; ">Lorem ipsum dolor sit amet, consectetur
  adipisicing elit. Quis, ut soluta est
  obcaecati ducimus reiciendis quae,
  veritatis animi debitis exercitationem ipsa
  facere alias minima! Asperiores repellat
  possimus sit dicta nihil.</p>
</div>

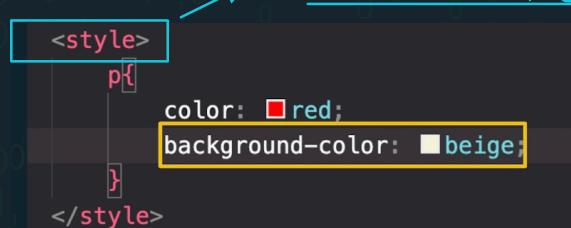
```

property : value

Heading Element

Lore ipsum dolor sit amet, consectetur adipisicing elit. Quis, ut soluta est obcaecati ducimus reiciendis quae, veritatis animi debitis exercitationem ipsa facere alias minima! Asperiores repellat possimus sit dicta nihil.

Internal CSS:

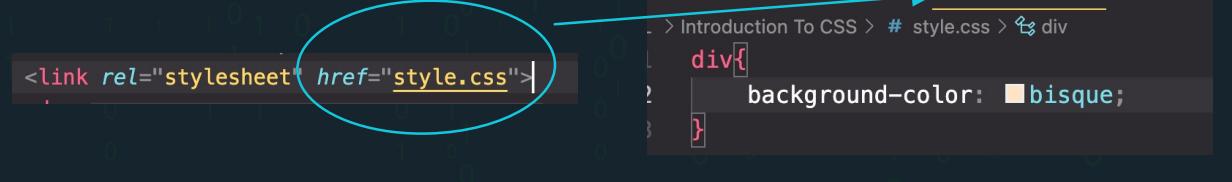


```

<style>
  p{
    color: red;
    background-color: beige;
  }
</style>

```

External CSS:



```

<link rel="stylesheet" href="style.css">

```

```

  div{
    background-color: bisque;
  }

```

Topdown Approach

```

<style>
  p{
    color: red;
    background-color: beige;
  }
</style>
<head>
</head>
<body>
  <div style="border: 5px dotted yellow;">
    <h1 style="color: aqua; background-color: red; border: 5px solid green;">Heading Element</h1>
    <p style="background-color: aquamarine;">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quis, ut soluta est obcaecati ducimus reiciendis quae, veritatis animi debitis exercitationem ipsa facere alias minima! Asperiores repellat possimus sit dicta nihil.</p>
    <h1>Another Heading Tag</h1>
  </div>
</body>

```

Identity :

Id - #<id_name> [At the time of Styling] && class - .<class_name> [At the time of styling]

```
<p id="p1">Lorem ipsum dolor  
consectetur adipisicing elit.  
totam sequi saepe reprehenderi  
dicta tenetur. A dolorum solu  
laudantium, preferendis cumque  
id nesciunt!</p>
```

Lorem ipsum dolor sit amet consectetur adipisicing elit. Harum nihil, ab totam sequi saepe reprehenderit ut aliquid dicta tenetur. A dolorum soluta earum laudantium, preferendis cumque molestiae fugiat id nesciunt!

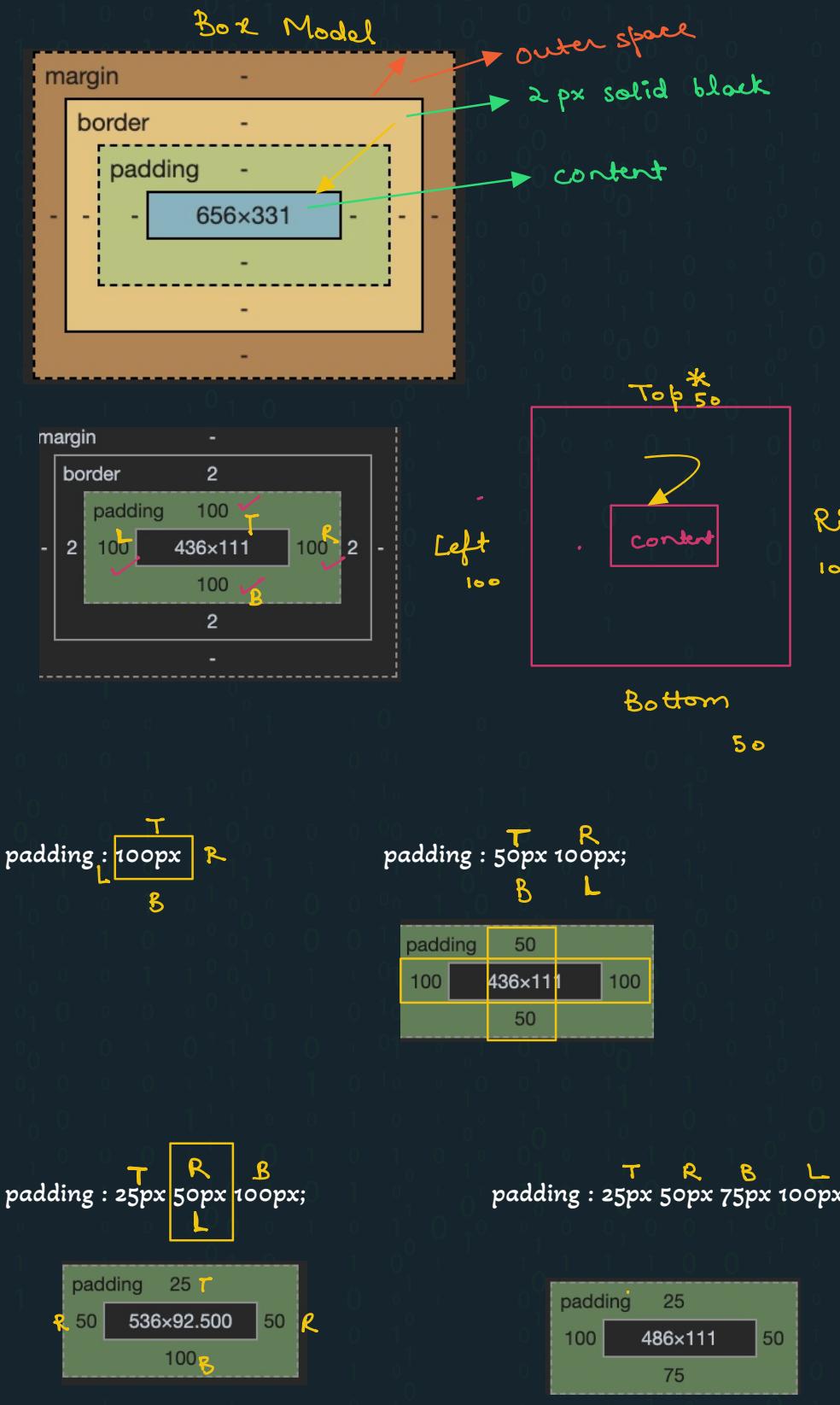
Lorem ipsum dolor, sit amet consectetur adipisicing elit. Debitis que totam dolorem qui nisi? Alias ad dolores magnam deserunt voluptatibus dicta iusto doloribus numquam cupiditate obcaecati, incidunt qui perspiciatis maxime!

```
#p1{
  color: red;
}
.p2{
  color: aqua;
  background-color: brown;
}
```

BOX MODEL :

- Border , Height , Width : Done []

Padding : Internal Space between your content and the border.



Margin :



→ margin-top :

→ margin-bottom :

→ margin-left :

→ margin-right :

```
<div style="border: 2px solid black; padding: 25px 50px 75px 100px; margin-bottom: 300px;">
    Lorem ipsum dolor sit amet consectetur,
    adipisicing elit. Rem cum facere nulla
    repellendus preferendis, fugit, saepe
    molestias soluta aperiam quod, sequi vitae
    voluptatum amet odit minima aliquam sint?
    Officia iste exercitationem facere
    necessitatibus blanditiis, harum, quis
    praesentium modi repellendus dicta fuga
    deserunt aspernatur nesciunt qui veniam, ab
    reiciendis nam maxime?
</div>
<div style="border: 2px solid green;
    padding-top: 100px; margin: 200px;">Lorem ipsum
dolor sit amet consectetur adipisicing elit.
Eaque illo pariatur accusamus quas! Accusamus
corporis nemo hic est officiis similique dolorum
recusandae aperiam illum. Molestias magni beatae
suscipit quae numquam.</div>
```

CSS Essential Concepts :

- Inheritance

- Rule Order

- Style Rule Hierarchy

- Specificity

o- Inheritance :

```
<section>
  <h3>This is h3 Element</h3>
  <p>Lorem ipsum dolor sit amet.</p>
  <p>Lorem ipsum dolor sit amet.</p>
  <p>Lorem ipsum dolor sit amet.</p>
  <p>Lorem ipsum dolor sit amet.</p>
</section>
```

```
section{
  color: blue;
}
```

This is h3 Element

Lorem ipsum dolor sit amet.
 Lorem ipsum dolor sit amet.
 Lorem ipsum dolor sit amet.
 Lorem ipsum dolor sit amet.

Rule Order :

```
p{
  color: red;
}
p{
  color: blue;
}
```

This is h3 Element

Lorem ipsum dolor sit amet.
 Lorem ipsum dolor sit amet.
 Lorem ipsum dolor sit amet.
 Lorem ipsum dolor sit amet.

Style Rule Hierarchy :

- **Inline Styling** → p₁

p₁ >> p₂ >> p₃ >> p₄

- **Id Selector** → p₂

- **class Selector and Attribute Selector** → p₃

- **Element Selector** . → p₄

 #Id > .class > p <element>

```
#p2{
    color: red;
}
.p1{
    color: aqua;
}
```

```
p{
    color: yellow;
}
div p {
    color: green;
}
```

```
<div>
<p class="p1" id="p2" style="color: lawngreen;">Lorem ipsum dolor sit amet, consectetur, adipisicing elit. Nulla, velit a. Quasi culpa dicta earum, dolorum nostrum harum amet, atque repellendus, nemo tenetur architecto laborum?</p>
```

Output:
Lorem ipsum dolor sit amet consectetur, adipisicing elit. Nulla, velit a. Quasi culpa dicta earum, dolorum nostrum harum amet, atque repellendus, nemo tenetur architecto laborum?

o- Specificity :

```
div p {
    color: green;
}
```

```
p{
    color: yellow;
}
```

```
<div>
<p class="p1" id="p2">Lorem ipsum dolor sit amet consectetur, adipisicing elit. Nulla, velit a. Quasi culpa dicta earum, dolorum nostrum harum amet, atque repellendus, nemo tenetur architecto laborum?</p>
```

Output:
✓  Lorem ipsum dolor sit amet consectetur, adipisicing elit. Nulla, velit a. Quasi culpa dicta earum, dolorum nostrum harum amet, atque repellendus, nemo tenetur architecto laborum?

Combinators & Selectors :

Selectors :

o- Element

```
p{
    color: yellow;
}
```

o- Id Selector

```
#paragraph{  
    background-color: #aqua;  
}
```

o- Class Selector :

```
.unique{  
    background-color: #green;  
}
```

o- Universal Selector :

```
*{  
    color: #red;  
    padding: 0;  
    margin: 0;  
    /* box-sizing: border-box; */  
}
```

o- Group Selector

```
h3 , p {  
    color: #blue;  
}
```

o- Attribute Selector

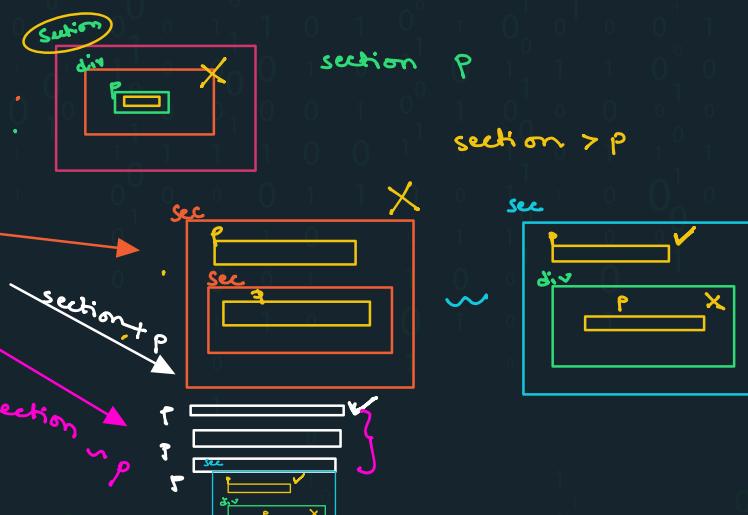
```
p[class]{  
    color: #yellow;  
}
```

```
p[class]{
    color: yellow;
}
p[id="paragraph"]{
    color: red;
}
```

If they both are attribute Selector , The one who comes below in the order. "Wins".

Combinator :

- o- Descendant Selector ()
- o- child Selector (>)
- o- Adjacent Sibling Selector (+)
- o- general Sibling Selector (~)



Descendant Selector:

```
<section>
  <p>Lorem ipsum dolor sit amet, consectetur
  adipisicing elit. Odit, nam.</p>
  <p>Lorem ipsum dolor sit amet.</p>
<section>
  <p>Lorem ipsum dolor sit amet consectetur
  adipisicing elit. Sit, explicabo.</p>
  <p>Lorem, ipsum dolor sit amet
  consectetur adipisicing elit. Fugit,
  nobis!</p>
</section>
</section>
```

```
section p {
    color: red;
}
```

```
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Odit, nam.
Lorem ipsum dolor sit amet.
Lorem ipsum dolor sit amet consectetur adipisicing elit. Sit, explicabo.
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!
```

o- Child Selector

```
parent child
section > p {
    color: green;
}
```

```
<section>
  <p>Lorem ipsum dolor sit amet, consectetur
  adipisicing elit. Odit, nam.</p>
  <p>Lorem ipsum dolor sit amet.</p>
  <div>
    <p>Lorem ipsum dolor sit amet consectetur
    adipisicing elit. Sit, explicabo.</p>
    <p>Lorem, ipsum dolor sit amet
    consectetur adipisicing elit. Fugit,
    nobis!</p>
  </div>
</section>
```

```
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Odit, nam.
Lorum ipsum dolor sit amet.
Lorum ipsum dolor sit amet consectetur adipisicing elit. Sit, explicabo.
Lorum, ipsum dolor sit amet
Lorum ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!
Paragraph 5 is the text.
```

o- Adjacent Sibling Selector : (+) : Select only adjacent Sibling.

```
section + p {
    color: green;
}
```

```
<section>
    <p>Lorem ipsum dolor sit amet, consectetur
        adipisicing elit. Odit, nam.</p>
    <p>Lorem ipsum dolor sit amet.</p>
    <section>
        <p>Lorem ipsum dolor sit amet consectetur
            adipisicing elit. Sit, explicabo.</p>
        <p>Lorem, ipsum dolor sit amet
            consectetur adipisicing elit. Fugit,
            nobis!</p>
    </section>
</section>
<p>Paragprph 5 is the text.</p>
<p>Lorem, ipsum dolor sit amet consectetur
    adipisicing elit. Fugit, nobis!</p>
<section>
    <p>Lorem ipsum dolor sit amet consectetur
        adipisicing elit. Sit, explicabo.</p>
    <p>Lorem, ipsum dolor sit amet consectetur
        adipisicing elit. Fugit, nobis!</p>
</section>
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Odit, nam.

Lorem ipsum dolor sit amet.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Sit, explicabo.

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!

Paragprph 5 is the text. only first adjacent

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!

Lorem ipsum dolor sit amet consectetur adipisicing elit. Sit, explicabo.

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!

section p

o- General Sibling Selector : (~) : Selects all adjacent sibling

```
<section>
    <p>Lorem ipsum dolor sit amet, consectetur
        adipisicing elit. Odit, nam.</p>
    <p>Lorem ipsum dolor sit amet.</p>
    <section>
        <p>Lorem ipsum dolor sit amet consectetur
            adipisicing elit. Sit, explicabo.</p>
        <p>Lorem, ipsum dolor sit amet
            consectetur adipisicing elit. Fugit,
            nobis!</p>
    </section>
</section>
<p>Paragprph 5 is the text.</p>
<p>Lorem, ipsum dolor sit amet consectetur
    adipisicing elit. Fugit, nobis!</p>
<section>
    <p>Lorem ipsum dolor sit amet consectetur
        adipisicing elit. Sit, explicabo.</p>
    <p>Lorem, ipsum dolor sit amet consectetur
        adipisicing elit. Fugit, nobis!</p>
</section>
```

section ~ p

```
color: green;
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Odit, nam.

Lorem ipsum dolor sit amet.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Sit, explicabo.

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!

Paragprph 5 is the text.

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!

Lorem ipsum dolor sit amet consectetur adipisicing elit. Sit, explicabo.

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Fugit, nobis!