

CSS 3

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CSS



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Hakon Wium Lie

- **CSS** was first proposed by Hakon Wium Lie on October 10, 1994. At the time, Lie was working with Tim Berners-Lee.
- Style sheets have existed in one form or another since the beginnings of Standard Generalized Markup Language (SGML) in the 1980s.
- **CSS** was developed to provide style sheets for the web.

What is CSS?



- **CSS** stands for Cascading **Style Sheets**.
- CSS describes how HTML elements are to be displayed.
- CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts.
- The Difference Between CSS and HTML.
 - ❖ **CSS** = Style: Cascading Style Sheets (CSS) dictate your website's **look and feel**.
 - ❖ **HTML** = Content: Hyper Text Markup Language (HTML) is the building-blocks of web pages.





- There are three ways to add **CSS** to HTML

1. Inline CSS

2. Internal CSS

3. External CSS

- An **inline CSS** may be used to apply a **unique style** for a **single element**.
- To use **inline CSS**, add the **style attribute** to the relevant element.
- The **style attribute** can contain any **CSS property** and **value**.

Eg: `<h1 style="color:aqua;">Jspiders</h1>`

Three arrows originate from the text in the list above. The first arrow points from 'style attribute' to 'style="color:aqua;"'. The second arrow points from 'CSS property' to 'color:aqua;'. The third arrow points from 'value' to 'Jspiders'.

Note: If we have **single** css property or css property is the **last** property then semicolon(;) is not mandatory

- **Internal CSS** is defined within the `<style>` tag, inside the `<head>` section of an HTML page

```
<head>
  <style>
    p
    {
      color : red;
    }
  </style>
</head>
<body>

  <p>Jspiders</p>

  <p>Rajajinagar</p>

</body>
```

index.html

```
<head>
  <style>
    p
    {
      margin: 10px;
    }
  </style>
</head>
<body>

  <p>Jspiders</p>

  <p>Rajajinagar</p>

</body>
```

gallery.html

```
<head>
  <style>
    p
    {
      padding : 4px;
    }
  </style>
</head>
<body>

  <p>Jspiders</p>

  <p>Rajajinagar</p>

</body>
```

home.html

Note: Internal CSS is limited only to one HTML Page

External CSS



- External CSS is defined within the `<link>` tag, inside the `<head>` section of an HTML page

```
<head>

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


</head>
<body>

    <p>Jspiders</p>

    <p>Rajajinagar</p>

</body>
```

index.html

```
<head>

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


</head>
<body>

    <p>Jspiders</p>

    <p>Rajajinagar</p>

</body>
```

gallery.html

```
<head>

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


</head>
<body>

    <p>Jspiders</p>

    <p>Rajajinagar</p>

</body>
```

home.html

```
p
{
    color : red;
    margin:10px;
    padding:4px;
}
```

style.css

Note: External CSS can be used inside all the HTML Pages by using `<link>` tag

CSS Backgrounds and Gradients



SL NO	Property	Value
1	background-color	Color name ,color code
2	background-image	Image name , Image path , image address, linear-gradient(colors),radial-gradient(color)
3	background-repeat	repeat-x , repeat-y ,no-repeat
4	background-attachment	Scroll(default),fixed
5	background-position	left top, left center, left bottom, right top, right center, right bottom, center top, center center, center bottom
6	background-size	Width height,cover



- In CSS, selectors are patterns used to select the element(s) you want to style.
- Selector are used to select an Html element it is select by name, id, class etc.
 - ☐ Element Selector
 - ☐ Group Selector
 - ☐ Class selector
 - ☐ Id selector
 - ☐ Universal Selector

Selector

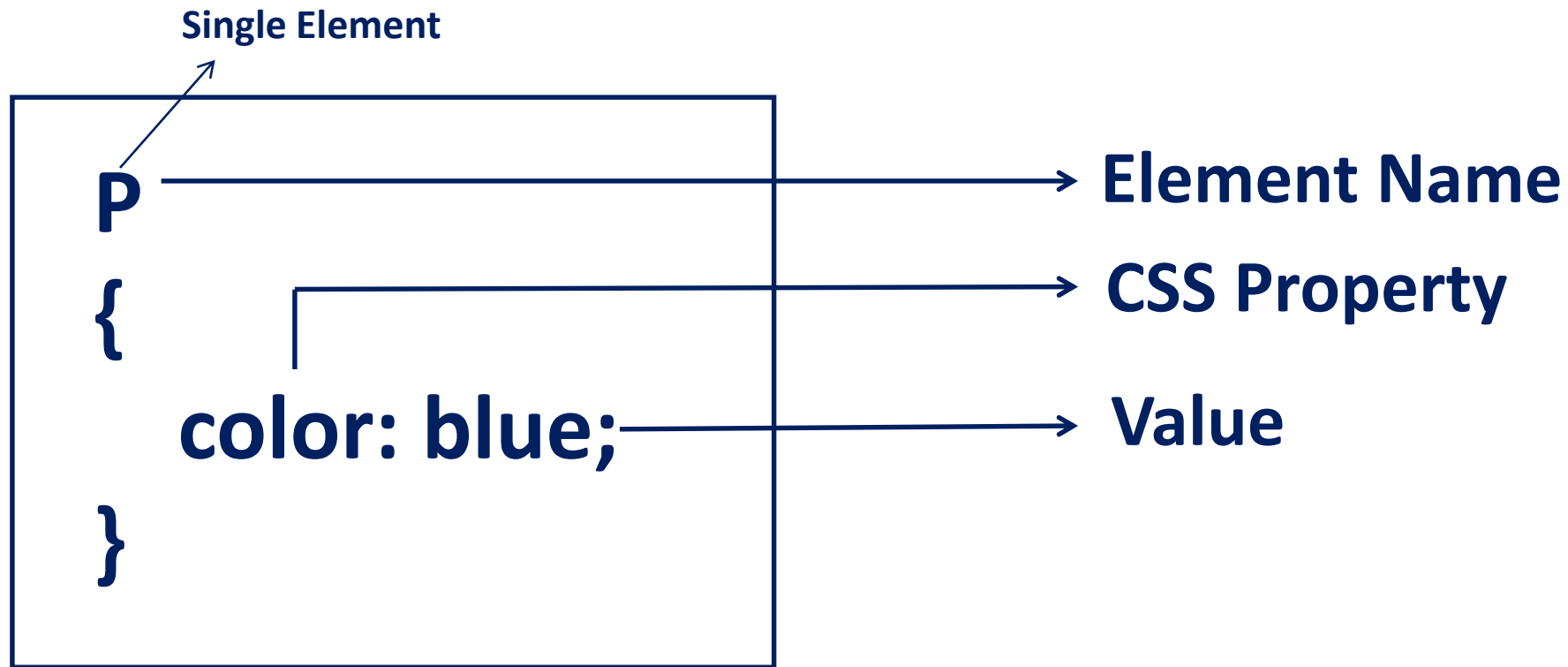
H1

```
{ color: red; font-size: 20px; }
```

property value

property value

- The **element selector** selects the HTML element by name.
- **Element selector** selects only one type of element.

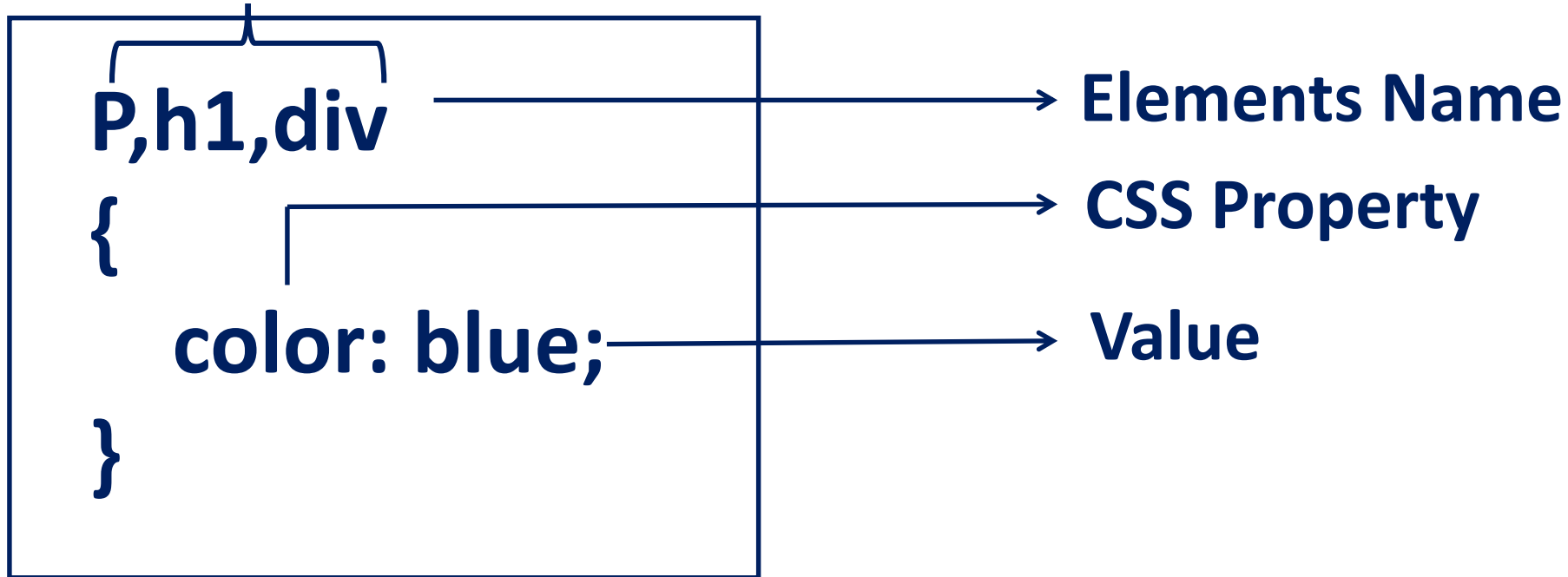


Group Selector

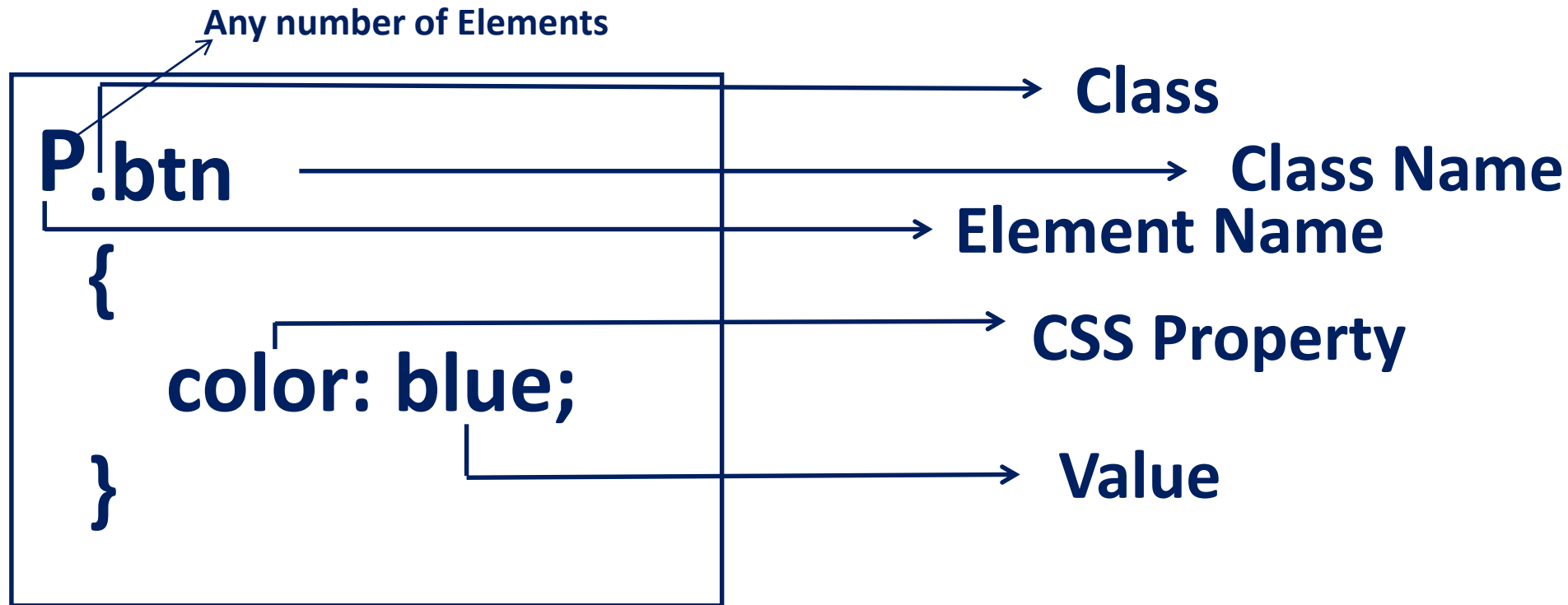


- **Group selector** is used to select all the elements
- **Group selector** is used to minimize the code.
- **Commas** are used to separate each element.

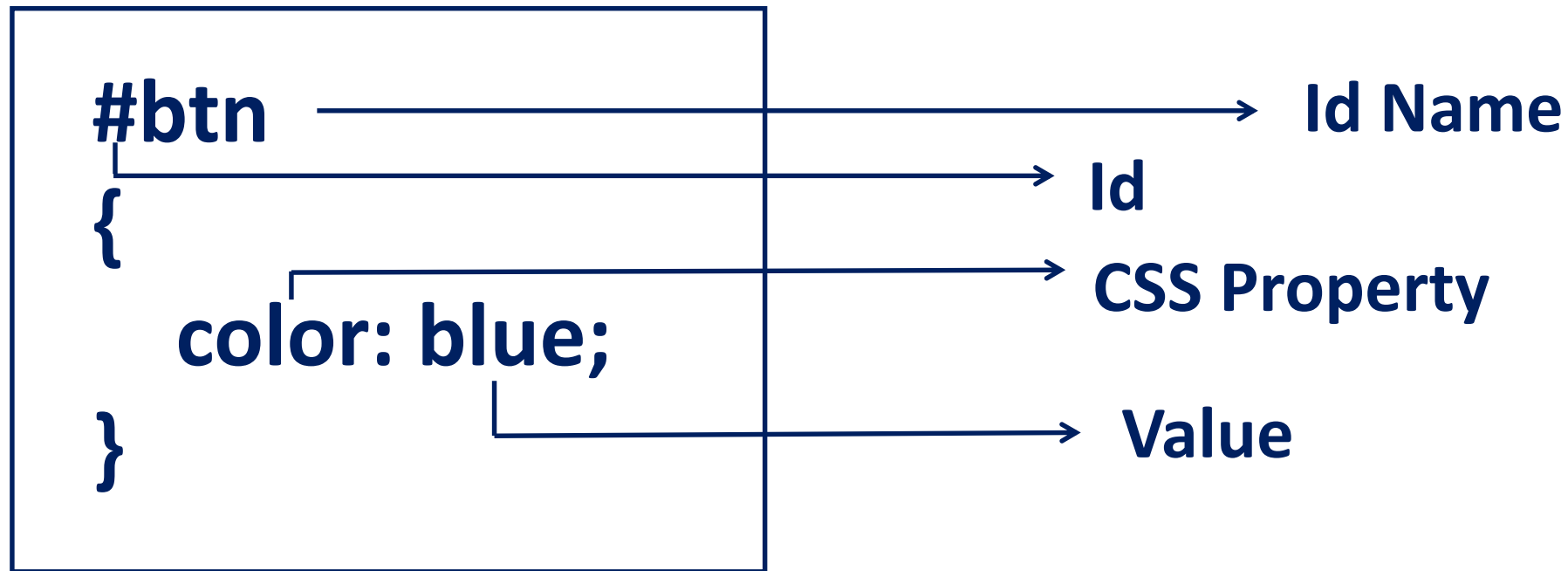
Multiple Elements



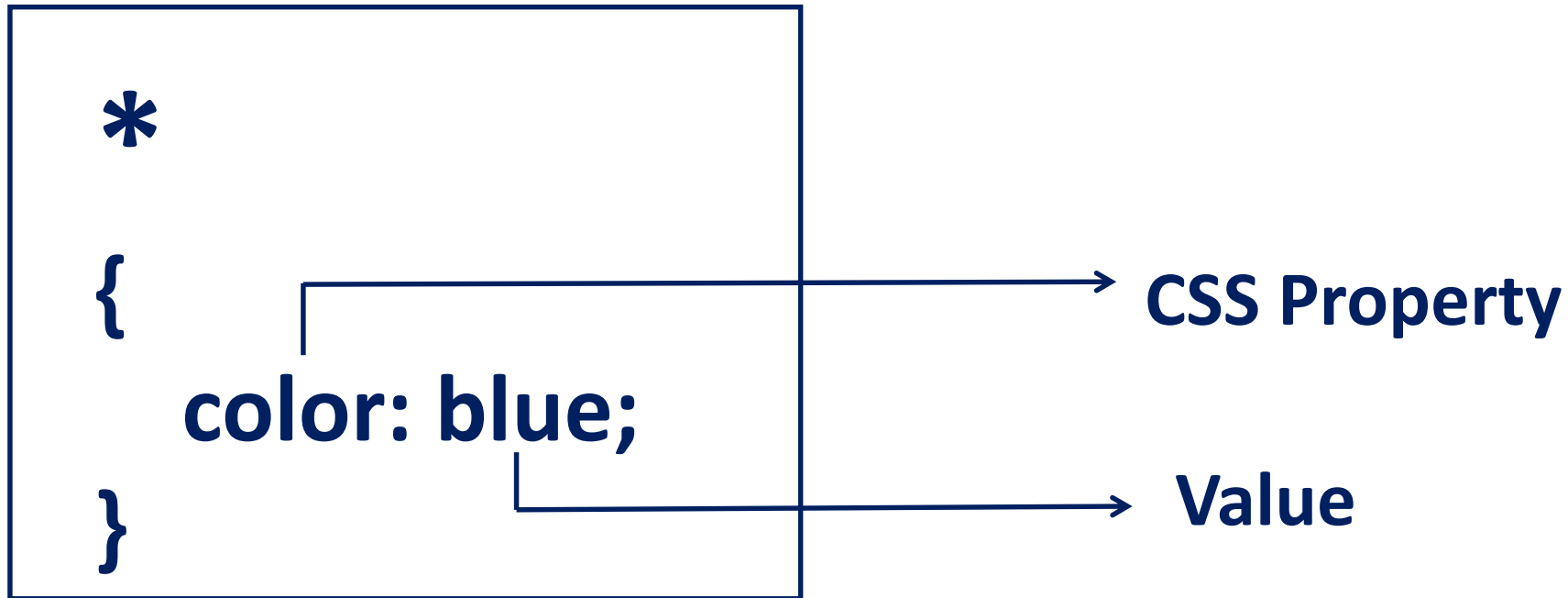
- The **class selector** selects HTML elements with a specific class attribute. It is used with a **dot** symbol.
- If you want to select **only one** specific HTML element then you should use the **element name** with class selector.



- The **Id selector** selects HTML elements with a specific id attribute. It is used with a **#** symbol.
- If an HTML element is having both **class and Id selector** then **first preference** will be given to **Id selector**



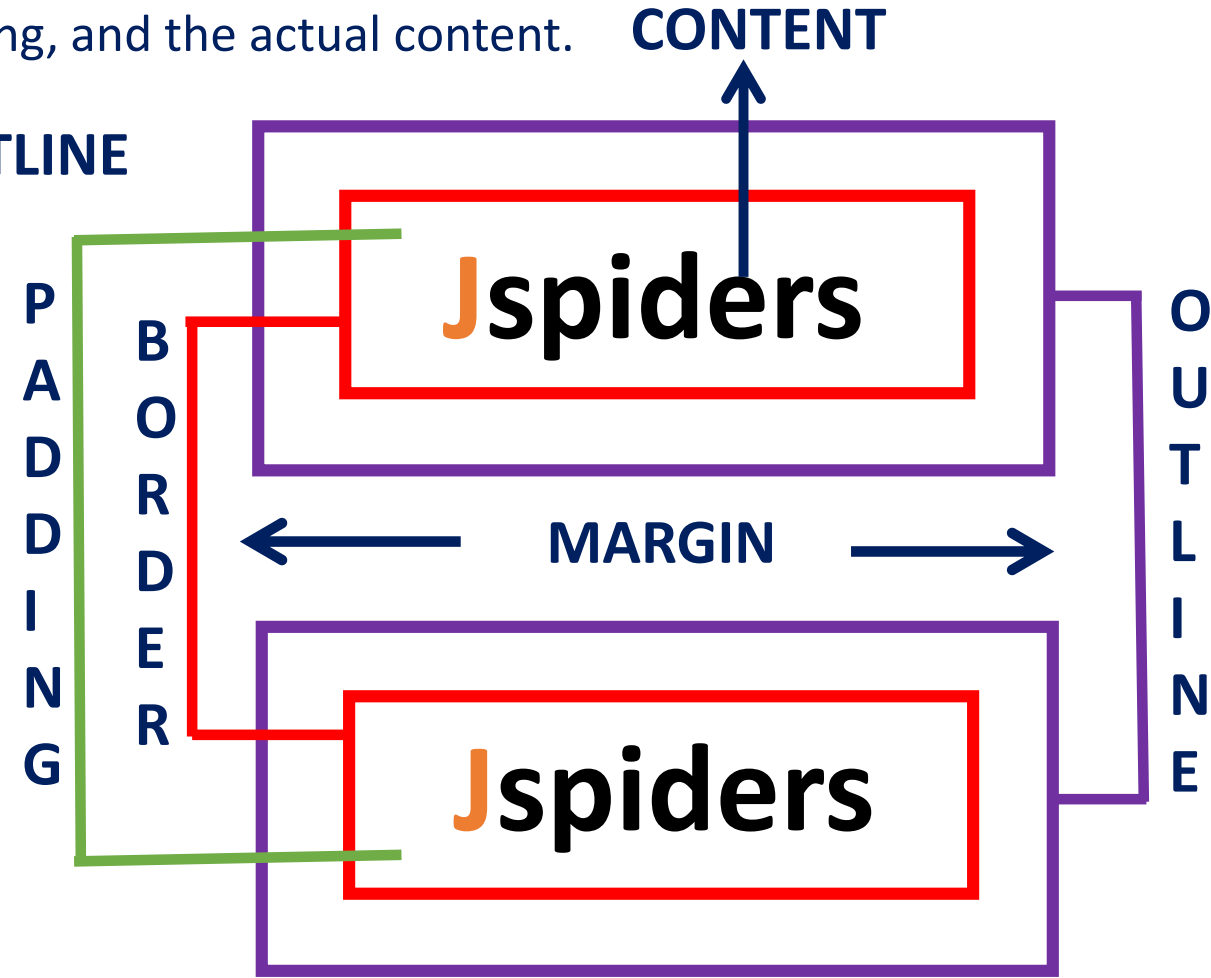
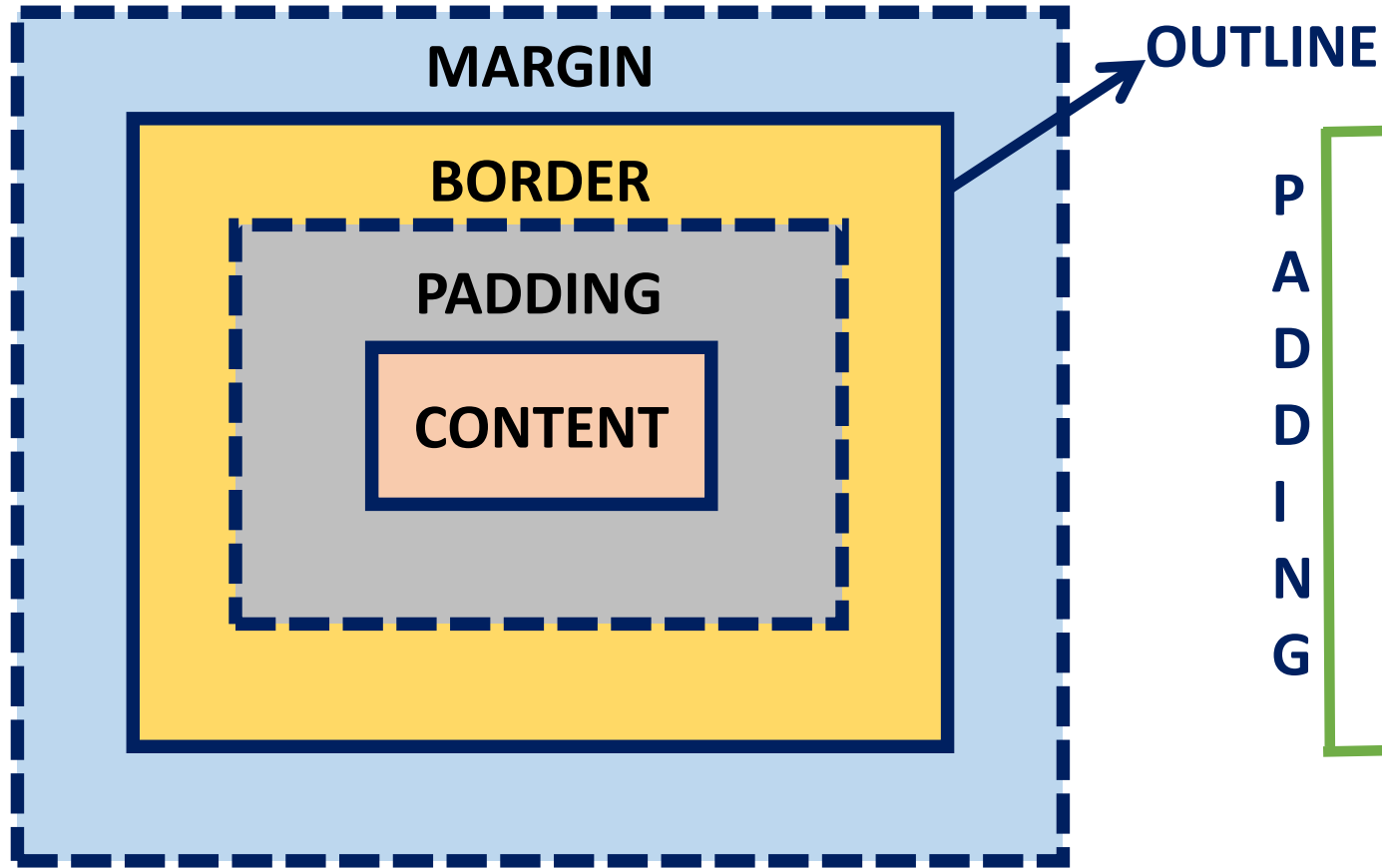
- The universal selector is used to select all the elements irrespective of tag names.



Box Model



- **Box model** is used for design and layout. The **CSS box model** is essentially a **box** that wraps around **every HTML element**. It consists of: margins, borders, padding, and the actual content.



Border Property



- The **CSS border** properties allow you to specify the **style, width, and color** of an element's border

Width	Style	Color
px,%	solid,dotted,double,dashed, groove,inset,ridge,outset, none	color name/code

SL NO	Property	Value
1	border	width style color (2px solid red)
2	border -top	width style color (2px solid red)
3	border -bottom	width style color (2px solid red)
4	border -left	width style color (2px solid red)
5	border -right	width style color (2px solid red)
6	border -radius	TLC TRC BRC BLC

Outline Property



- The **CSS outline** properties allow you to specify the **style, width, and color** of an element's outline
- **Outline** is outer edge of HTML elements

Width	Style	Color
px,%	solid,dotted,double,dashed, groove,inset,ridge,outset, none	color name/code

SL NO	Property	Value
1	outline	width style color (2px solid red)
2	Outline-offset	px,%

Padding Property



- **Padding** is the space between border and content of the HTML Elements

SL NO	Property	Value
1	Padding-left	px,%
2	Padding-right	px,%
3	Padding-top	px,%
4	Padding-bottom	px,%
5	Padding	padding-top padding-right padding-bottom padding-left (px ,%)

Margin Properties



- **Margin** is the space between two **outlines** of the HTML Elements

SL NO	Property	Value
1	Margin-left	px, %
2	Margin-right	px, %
3	Margin-top	px, %
4	Margin-bottom	px, %
5	Margin	margin-top margin-right margin-bottom margin-left (px, %)





- **CSS text formatting properties** is used to format **text** and style **text**

SL NO	Property	Value
1	Color	Color name,color codes
2	Text-align	Left(Default),right,center,justify
3	Text-indent	px,%
4	Text-decoration	Underline,overline,line-through,none
5	Text-transform	Uppercase,lowercase,capitalize
6	Text-shadow	H-value V-value Blur-Ratio Color . Ex: 2px 2px 2px red
7	Letter-spacing	px,%
8	Word-spacing	px,%
9	Line-height	px,%



- The **CSS font properties** define the **font** family, boldness, size, and the style of a text.

SL NO	Property	Value
1	Font-style	normal(default), italic
2	Font-size	px,%
3	Font-weight	Lighter(default),bolder
4	Font-family	Any family name ex:Times New Roman,Algerian
5	Font-varient	normal(default), small-caps

- Pseudo classes are used to change the current state of html elements

syntax

```
selector : pseudo class Name
{
    css properties : value ;
}
```

Ex:

```
P: hover
{
    color : red ;
}
```

☐ Link

☐ Hover

☐ Active

☐ Visited

Position Property



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

SL NO	Property	Value
1	Position	Static(default), relative, fixed, sticky
2	Top	px,%
3	Bottom	px,%
4	Left	px,%
5	Right	px,%

Display Property



- The `display` property specifies the display behavior (the type of rendering box) of an element.

SL NO	Property	Value
1	Display	Inline , block ,inline-block , none

- **Display inline** is default for inline level elements.
- **Display block** is default for block level elements

Transform Property



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Border Property

