

# Project 195

195

**DP**  
EDUCATION

# Coding School



```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <link rel="stylesheet"
8          href="imageOpacity.css">
9      <title>Document</title>
10 </head>
11 <body>
12     <div class="demo-wrap">
13         
18         <div class="text">
19             <h1>Hello World!</h1>
20         </div>
```

html  
Glitch



See the webpage



Glitch

Start here

## How to style an element in CSS

### Pseudo-class Selectors

#### ➊ First-Child

- ❖ Among the elements in any element, the first element is the first-child element.

```
<body>
  <article>
    <h2>
      Heading
    </h2>
    <p>
      Cascading Style Sheets is a style sheet language used for specifying the presentation and styling of a document
      written in a markup language such as HTML or XML.
    </p>
    <p>
      CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.
    </p>
  </article>
</body>
```

The first element in the article element is the h2 element. That element is the first child.

- ❖ Let's style that element using first-child.

style.css

★ PRETTIER

```
1  body{
2    margin: 10px;
3  }
4
5  article :first-child{
6    font-size: 140%;
7    font-style: italic;
8  }
9 }
```

Here the h2 element is the first element in the article element.

Therefore, if you type as article and place : after a space and give it as first-child, you can easily style it.

healthy-helix-thought.glitch.me

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**Heading**

Cascading Style Sheets is a style sheet language used for specifying the presentation and styling of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

- ❖ Even if the `<h2>` tag is removed and the `<p>` tag is used, the style remains the same. Because then the first-child is the `<p>` tag.

### First-Of-Type

- ❖ Let's style that element using first-of-type.

style.css PRETTIER healthy-helix-thought.glitch.me/

```
1< body{  
2  margin: 10px;  
3 }  
4  
5< article :first-of-type{  
6  font-size: 140%;  
7  font-style: italic;  
8  color: blue;  
9 }  
10
```

**Heading**

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Here, the style has been applied to the `<h2>` tag and the first `<p>` tag in the `article` element.

First-of-type applies the style to the first tag of the tags in the element.

- ❖ If we now want to style only the first paragraph, it will be done as follows.

```
1< body{  
2  margin: 10px;  
3 }  
4  
5< article p:first-of-type{  
6  font-size: 140%;  
7  font-style: italic;  
8  color: blue;  
9 }  
10
```

### Heading

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Apply the tag to be styled.

## Last-child

- ❖ What happens here is that the element is applied to the last tag in the element.



```
style.css PRETTIER healthy-helix-thought.glitch.me/
```

```
body{ margin: 10px; }

article :last-child{
  font-size: 140%;
  font-style: italic;
  color: blue;
}
```

**Heading**

Cascading Style Sheets is a style sheet language used for specifying the presentation and styling of a document written in a markup language such as HTML or XML.

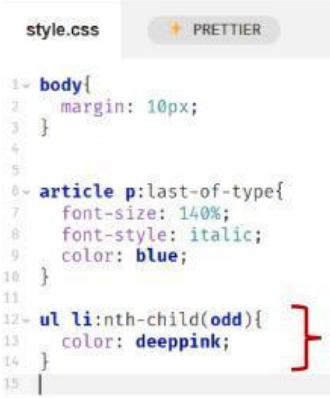
CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

## N<sup>th</sup> – child

- ❖ Let's code the Index.html page below.

```
12 <article>
13   <h2>
14     Heading
15   </h2>
16   <p>
17     Cascading Style Sheets is a style sheet language used for specifying the presentation and styling of a document
18     written in a markup language such as HTML or XML.
19   </p>
20   <p>
21     CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.
22   </p>
23   <ul>
24     <li>Item 1</li>
25     <li>Item 2</li>
26     <li>Item 3</li>
27     <li>Item 4</li>
28     <li>Item 5</li>
29   </ul>
30 </article>
```

- ❖ Now let's see how to style items ending in odd numbers.



```
style.css PRETTIER
```

```
body{
  margin: 10px;
}

article p:last-of-type{
  font-size: 140%;
  font-style: italic;
  color: blue;
}

ul li:nth-child(odd){
  color: deeppink;
}
```

When Nth-child(odd) is given, the style is applied to the list whose item number is odd.

## Heading

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- Item 1
- Item 2
- Item 3
- Item 4
- Item 5

❖ To style items ending in even numbers, nth-child(even) must be given.

## First-Letter

❖ Let's see how to style the first letter of a paragraph.

```
p::first-letter {  
  font-size: 140%;  
  font-weight: bold;  
}
```

## Heading

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## First-Line

- ❖ Let's see how to style the first line of a paragraph.



The screenshot shows a browser window with a CSS file on the left and its rendered output on the right. The CSS file contains the following code:

```

4
5
6  article p:last-of-type{
7      font-size: 140%;
8      font-style: italic;
9      color: blue;
10 }
11
12 ul li:nth-child(odd){
13     color: deeppink;
14 }
15
16 p::first-letter {
17     font-size: 140%;
18     font-weight: bold;
19 }
20
21 p::first-line {
22     font-weight: bold;
23 }
24

```

The rendered output shows a heading and a list. The heading is in bold. The list items are colored blue and pink alternately. The first line of the list is bolded. A red box highlights the line `p::first-line { font-weight: bold; }` in the CSS file, and a callout box points to the bolded first line of the list with the text "Here the style is done for the first line of the paragraph."

- ❖ When a text is selected on a web page, the background color is blue by default.

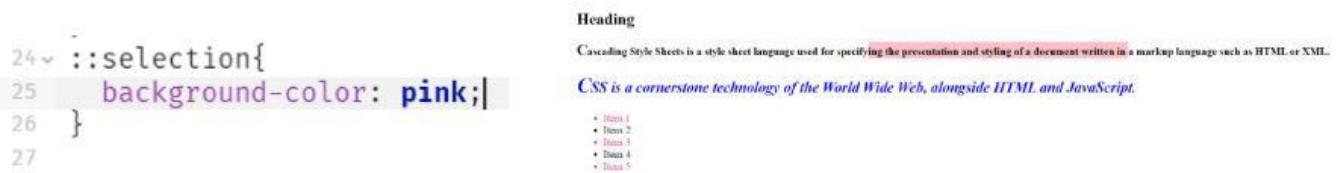
## Heading

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- ❖ Let's change that color below.



The screenshot shows a browser window with a CSS file on the left and its rendered output on the right. The CSS file contains the following code:

```

24
25  ::selection{
26      background-color: pink;
27
28

```

The rendered output shows a heading and a list. The heading is in bold. The list items are colored blue and pink alternately. The first line of the list is bolded. A red box highlights the line `background-color: pink;` in the CSS file.

## Selector Specificity (Weight)

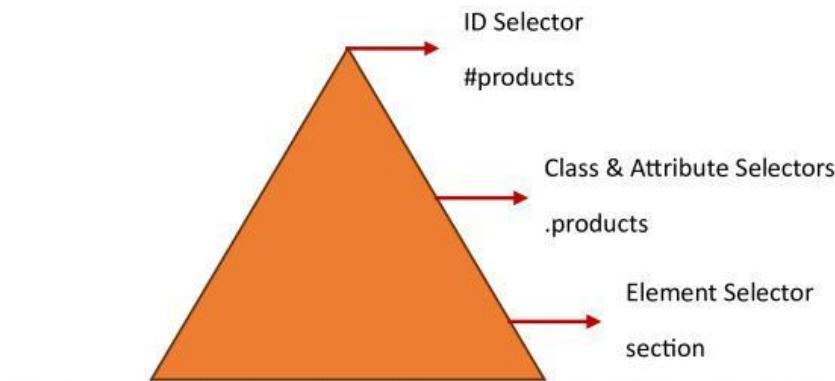
- ❖ Let's prepare the index.html page as follows.

```
<body>
  <article>
    <h1 class="highlight">
      Heading
    </h1>
```

- ❖ Now adjust the style as below.

```
28~ h1{
29  color:dodgerblue;
30 }
31~ .highlight{
32  color:deeppink;
33 }
```

- ❖ Both the above styles are intended for the h1 element. Let's see which style is used for h1.
- ❖ In this case the effect of Selector Specificity is done.
- ❖ If more than one rule affects the same element, the browser will apply the heaviest rule.
- ❖ Consider the following triangle. (Selector Specificity Triangle)



- ❖ According to the above triangle, the first thing that affects an element is the ID. Because the id is used only for one element.
- ❖ Second is the class or attribute selector.

- ❖ Finally is the element selector.
- ❖ Accordingly, according to the style done above, the style done for the class is applied for h1.

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