

# 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



Start here

## How to style an element in CSS

### Pseudo-class Selectors

#### 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.

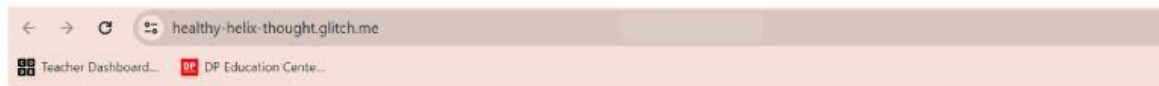
style.css

 PRETTIER

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



## 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.



The screenshot shows a code editor with the following CSS code:

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

A red arrow points from the `:first-of-type` selector to the first paragraph in the preview. The preview shows the text "Heading" in blue, italicized font, followed by two paragraphs of text.

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.



The screenshot shows a code editor with the following CSS code:

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

A red arrow points from the `p:first-of-type` selector to the first paragraph in the preview. The preview shows the text "Heading" in blue, italicized font, followed by two paragraphs of text.

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**

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## 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
```

```
1- body{
2-   margin: 10px;
3- }
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-
```

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

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❖ 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;  
}
```

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## First-Line



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



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

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
```

**Heading**

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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.

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- ❖ Let's change that color below.



```
24 ~ ::selection{
25   background-color: pink;|
26 }
27
```

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#### Selector Specificity (Weight)

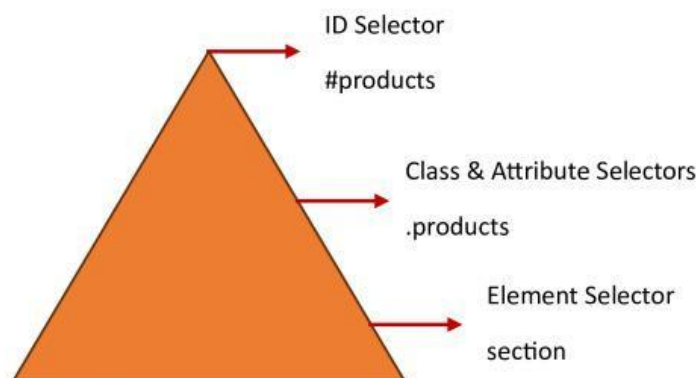
- ❖ Let's prepare the index.html page as follows.

```
<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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