Introduction:

What is a selector? A CSS selector is the first part of a CSS Rule. It is a pattern of elements and other terms that tell the browser which HTML elements should be selected to have the CSS property values inside the rule applied to them.

CSS selectors are tools that allow developers to target specific elements on a webpage and apply styling . Basic CSS selectors like ID and CLASS selectors are widely known, there is a whole range of advanced selectors available for more precise targeting. Among these are pseudo-classes and pseudo-elements, which provide additional flexibility and control over styling. In this article, we will delve into the world of advanced CSS selectors, exploring pseudo-classes and pseudo-elements and showcasing their capabilities.

## What are Pseudo-classes?

## As defined by W3schools:

## A pseudo-class is used to define a special state of an element.

## For example, it can be used to:

## Style an element when a user mouses over it

## Style visited and unvisited links differently

## Style an element when it gets focus

Pseudo-classes enable you to target an element when it's in a particular state, as if you had added a class for that state to the DOM. Pseudo-elements act as if you had added a whole new element to the DOM, and enable you to style that.

## What are CSS pseudo-elements?

A [CSS pseudo-element](https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-elements) is primarily a keyword added to a [CSS selector](https://www.w3schools.com/cssref/css_selectors.asp) that lets you style a specific part of the selected HTML element. It acts as a sub-element and provides additional functionality to the selected entity.

For example, [::first-line](https://developer.mozilla.org/en-US/docs/Web/CSS/::first-line) can be used to change the font of the first line of a paragraph.

### **Pseudo-class Selectors**

### [**#**](https://www.dofactory.com/css/ref/selectors#pseudo-class)

Pseudo-class selectors select elements by psuedo-class. It is usually combined with element selectors, such as a:hover.

Conclusion

Pseudo-classes and pseudo-elements provide web developers with powerful tools for precise element targeting and styling. By understanding the capabilities and usage of these advanced CSS selectors, you can take your styling skills to the next level. Experiment, combine different selectors, and unlock a whole new level of creativity in your web design projects.