

Selector in css :

Descendant selector:

Descendant Selector


Eg - Selects all paragraphs inside divs

descendant Selector → `div p {`
property: value;
}

Handwritten examples:

```
<p> </p>
<span> <p> </p> </span>
<div> <p> </p> </div>
<div> <p>
```

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Sibling selector :

Adjacent Sibling Combinator


Eg - Heading3 that comes immediately after any paragraph

sibling combinator → `p + h3 {`
property: value;
}

Handwritten examples:

```
<p> </p>
<h3> </h3>
<h3> </h3>
<div> <h3> </h3> </div>
p h3
p h3
h3 p
```

CSS



Child combinator:

< previous
next >

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Child Combinator

Eg - Selects all buttons which are direct children of spans

child
Selector
combinator

span > button {

property: value;

}

~~<div>~~ ~~<p>~~ ~~</p>~~ ~~</div>~~

↓


child

div > p {

=

}

direct descendant



Attribute selector :

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Attribute Selector

Selects elements based on the presence or value of a given attribute

Attribute
Selector

input[attr='value']{

property: value;

}

↓ ✓ ↓ ✓

Pseudo Class

element : pseudoclass

A Keyword added to a selector that specifies a **special state** of the selected element(s)

: hover

: active

: checked

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: nth-of-type(2n)

nth elements

☐ 1 (1)

☒ 2 (2)

☐ 3 1

☒ 4 2

☐ 5 1

☒ 6 2

☐ 7

CSS



Pseudo Elements

A Keyword added to a selector that lets you style a **specific part** of the selected element(s)

:: first-letter

:: first-line

:: selection



```

6
7   h1::first-letter {
8     color: black;
9   }
10
11   p::first-line {
12     color: blue;
13   }
14
15   p::selection {
16     background-color: rgb(199, 192, 58);
17   }
18

```

Order of Selector :

→ :Final selector taken

API
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CSS : Cascading StyleSheets

What is cascade in CSS?

The **CSS cascade algorithm**'s job is to select CSS declarations in order to determine the correct values for CSS properties.

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```


h2 {
  background-color: yellow;
}

h2 {
  background-color: blue;
}

```

same element

final color is blue



#myId {
 .myclass {
 }
 }

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Selector Specificity

What is specificity?

Specificity is an algorithm that calculates the weight that is applied to a given CSS declaration.

| 1 | 1 | |
|----|---------------------------------------|---------------------------------|
| id | class, attribute & pseudo-class | element & pseudo- element |

id > class > element

selector

$$\begin{array}{r} 121 \\ \times \\ \hline 300 \end{array}$$

$$\begin{array}{r} 121 \\ \times \\ \hline 300 \end{array}$$

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Specificity inn CSS / order in CSS:

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Selector Specificity

What is specificity?

Specificity is an algorithm that calculates the weight that is applied to a given CSS declaration.

| id | class, attribute & pesudo-class | element & pesudo- element |
|----|---------------------------------------|---------------------------------|
|----|---------------------------------------|---------------------------------|

e.g:

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Practice Qs

For the given html & css code, what is bg-color of p:

```

<div>
  <p class="para">This is a paragraph.</p>
</div>

```

```

div {
  background-color: black;
}
.para {
  background-color: blue;
}
p {
  background-color: green;
}

```

← descendant sel

← class sel

← ele sel

$$\begin{array}{r} 0 \\ \times \end{array} \begin{array}{r} 0 \\ \times \end{array} \begin{array}{r} 2 \\ \times \end{array} (2)$$

$$\begin{array}{r} 0 \\ \times \end{array} \begin{array}{r} 1 \\ \times \end{array} \begin{array}{r} 0 \\ \times \end{array} (10) \uparrow$$

$$\begin{array}{r} 0 \\ \times \end{array} \begin{array}{r} 0 \\ \times \end{array} \begin{array}{r} 1 \\ \times \end{array} (1)$$

03:50 / 06:17

When specificity is same then use cascading approach that is which is last thatis ur answer;

Practice Qs

For the given html & css code, what is color of text "Hello World!":

```
<div class="greetDiv">
  <p class="greet">
    Hello World!
  </p>
</div>
```

```
div.greetDiv .greet {
  color: green;
}
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```

```
.greetDiv p.greet {
  color: blue;
}
```

```
.greetDiv .greet {
  color: red;
}
```

specificity → cascading APNA COLLEGE

blue
↑

$\frac{0}{div} \frac{2}{p} \frac{1}{el} (21)$
 $\frac{0}{div} \frac{2}{p} \frac{1}{el} (21)$
 $\frac{0}{div} \frac{2}{div} \frac{0}{el} (20)$

