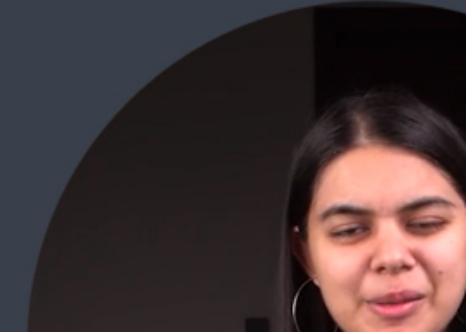


Selectors

in CSS

A
CC



Basic Format of CSS

Selector

h1 {

color: red;

}

Property

Value

Universal Selector

To select everything in a document

Universal
Selector



```
* {
```

```
    property: value;
```

```
}
```

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Class Selector

Selects an element based on their class attribute

```
class  
Selector →  
.myclass {  
    property: value;  
}
```



Descendant Selector

Eg - Selects all paragraphs inside divs

descendant

Selector



```
div p {
```

property: value;

```
}
```

Adjacent Sibling Combinator

Eg - Heading3 that comes immediately after any paragraph

sibling
combinator

p + h3 {

 property: value;

}

Child Combinator

Eg - Selects all buttons which are direct children of spans

child
Selector →

```
span > button {  
    property: value;  
}
```

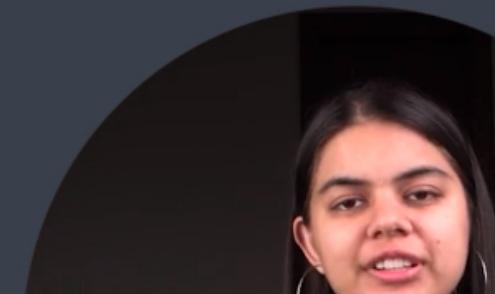


Attribute Selector

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

Attribute
Selector

```
input[attr="value"] {  
    property: value;  
}
```



Practice Qs

Write css statement to implement the following:

- Set the color of paragraphs inside divs with the id "myId" to green

for

div

id { attributes
class }

~~divs (myId)~~

p ✓ color: green

CSS

Pseudo Class

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

: hover

: active

: checked

: nth-of-type



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

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.

```
h2 {  
    background-color: yellow;  
}  
  
h2 {  
    background-color: blue; ←  
}
```

final color is blue

Selector Specificity

What is specificity?

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

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<u>1</u>	<u>1</u>	
id	class, attribute & pesudo-class	element & pesudo- element

id >

#myId {
 .myClass {

 }
}

selector ① ② | - - -
 ③ ④ ⑤



Selector Specificity

```
h2 {  
    background-color: yellow;  
}
```

0 0 1 = 1

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0

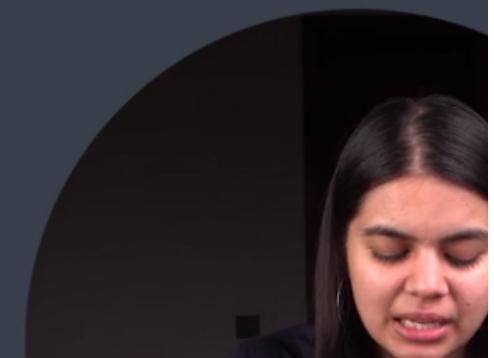
id

0

class,
attribute &
pesudo-class

1

element &
~~pesudo-~~
element



Selector Specificity

✓ .myClass:hover {
 color: blue;
}

$$0 \ 20 = 20$$

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0	$\underline{1+1} \ 2$	0
id	class, attribute & pesudo-class	element & pesudo- element



Selector Specificity

What to remember?

① **id > class > element**

② more selectors > less selectors
↑ CSS

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Selector Specificity

What to remember?

- ① **id > class > element** ✓
- ② more selectors → less selectors ✓
↑ CSS
- ③ if specificity same ⇒ cascading ↗



Inline Specificity

Inline styles are more specific than id

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inline style

id

class,
attribute &
pesudo-class

element &
pesudo-
element



Practice Qs

For the given html & css code, what is color of h1:

```
<h1 id="greet" class="myClass">Hello!</h1>
```

```
h1 {  
    color: pink;  
}  
  
#greet {  
    color: yellow;  
}  
  
.myClass {  
    color: brown;  
}
```

Practice Qs

id > class > element
selectors

For the given html & css code, what is color of h1:

```
<h1 id="greet" class="myClass">Hello!</h1>
```

```
h1 {  
    color: pink;  
}
```

← d sel h1 → yellow

```
#greet {  
    color: yellow;  
}
```

← id sel

```
.myClass {  
    color: brown;  
}
```

← class sel



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 p {
background-color: black;
}

← descendants
sel

0 0 2 (2)

.para {
background-color: blue;
}

← class sel

0 1 0 (10)

p {
background-color: green;
}

← ele sel

0 0 1 (1)



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>
```

blue
↑

```
div.greetDiv .greet { ← 0 2 1 (21) }
  color: green;
}

.greetDiv p.greet { ← 0 2 1 (21) }
  color: blue;
}

.greetDiv .greet { ← 0 2 0 (20) }
  color: red;
}
```

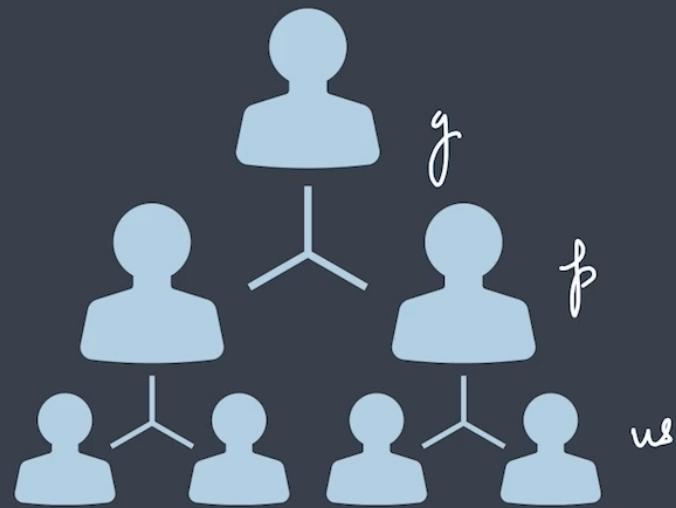
!important

To show the most specific thing in document

```
h2 {  
    background-color: blue !important;  
}
```



Inheritance in CSS



css/html

<div>

<p>

</div> <p>

