CSS : Cascading StyleSheets

in RAHUL VERMA

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.

Ex :-

```
h1 {
    color : blue;
}

h1 {
    color : green;
}
```

final color will be green

Cascading properties appied on SAME Selector

This also valid if multiple css files are included

So the last statement executed will Change the property

Q) What if my selectors are different?

⤷ So Before going to cascade properties
We find Selector Specificity

Q) What is Specificity?

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

⤷ <u>Internal Mathematical function</u>

Ex :) for same button, using different selector
                                    same   id   class   element
trying to change the property

Specificity (3 Digit Number) H T O

id	class, attribute, pseudo-class	element, pseudo-element
⤷ Hundred's place	⤷ Tens	⤷ Ones

→ If more than 1 thing are there, then add them in Specificity.

$$\underline{\quad} \quad \frac{1+1}{\begin{array}{c}Class\\attribute\end{array}} \quad \underline{\quad}$$

└) If Both happen

Ex :→

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

$$\underline{\quad 0 \quad} \quad \underline{\quad 0 \quad} \quad \underline{\quad 1 \quad} \quad = 1$$

This means it's 20 times more specific

```
. myClass : hover {
          Color: blue,
}
```

$$\underline{\quad 0 \quad} \quad \underline{\quad 2 \quad} \quad \underline{\quad 0 \quad}$$

→ class + pseudoclass

$= 20$

```
button : hover {
}
```

→ $\underline{\quad 0 \quad} \quad \underline{\quad 1 \quad} \quad \underline{\quad 1 \quad}$ ← button element

✭ Imp Points (REMEMBER)

① id > class > element

② MORE SELECTOR > LESS SELECTOR
    ↑ CSS

③ if specificity same ⟹ Cascading
                              property

Inline Specificity

Inline Styles are more specific than id

inline style	id	class, attribute, pseudo-class	element, pseudo-element