Topic/Title:



CSS Specificity || Combining CSS selectors || CSS Positioning ||

Keywords/Questions:

Notes:

CSS specificity determines which styles are applied to an element when there are conflicting styles. It's based on:

- 1. Inline styles: Highest specificity, applied directly to an element.
- 2. ID selectors: Higher specificity than classes or tag selectors (#elementID).
- 3. Class selectors, attribute selectors, pseudo-classes: Same specificity (.class, [type="text"], :hover).
- 4. Tag selectors: Lowest specificity (div, a, p).
- 5. Universal selector (*): Lowest specificity, applies to all elements.

These are key concepts in CSS that influence how styles are applied:

- 1. Position: Determines how elements are positioned within the document flow. Values: static, relative, absolute, fixed, sticky.
- 2. Specificity: Determines which CSS rule takes precedence when multiple rules apply to the same element.
 - Calculated based on the types of selectors used (inline styles > ID selectors > class/attribute selectors > type selectors).
- 3. Type: Refers to the different types of CSS rules and their application: Inline styles: Applied directly to an element with the style attribute.

Internal styles: Defined within the <style> element in the <head> section of an HTML file.

External styles: Linked using the link> element to an external CSS file.

4. Importance: Specifies the priority of a CSS rule, overriding normal specificity rules.

!important keyword: Applied to a CSS declaration to give it the highest priority.

There are five different position values: 1. static 2. relative 3. fixed 4. absolute 5. sticky

Summary:

To know more details about specificity go to this: https://www.w3schools.com/css/css_specificity.asp

Static - this is the default value, all elements are in order as they appear in the document.

Relative - the element is positioned relative to its normal position.

Absolute - the element is positioned absolutely to its first positioned parent.

Fixed - the element is positioned related to the browser window.

Sticky: A combination of relative and fixed positioning, where the element acts like a relative element until it reaches a certain scroll point, at which point it acts like a fixed element.

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1. Descendant Selector
Targets elements that are descendants of a specified element.
/* Targets all  elements that are inside <div> elements */
div p {
 color: blue;
 2. Child Selector
 Targets elements that are direct children of a specified element.
 /* Targets all direct  children of  */
 ul > li {
  list-style-type: none;
 3. Adjacent Sibling Selector
 Targets an element that is immediately preceded by a specified element.
 /* Targets the first  that follows an <h2> */
                                                                   7. Pseudo-Class Selector
 h2 + p {
                                                                   Targets elements based on their state or position.
  margin-top: 0;
 }
                                                                   /* Targets the first  in each  */
                                                                   ul li:first-of-type {
 4. General Sibling Selector
                                                                    font-weight: bold;
 Targets all sibling elements that follow a specified element.
 /* Targets all  elements that follow any <h2> */
                                                                   /* Targets <a> elements when hovered over */
 h2 ~ p {
                                                                   a:hover {
   color: green;
                                                                    color: red;
                                                                   }
  5. Group Selector
                                                                   8. Pseudo-Element Selector
  Applies the same style to multiple elements.
                                                                   Targets specific parts of an element.
  /* Targets <h1>, <h2>, and <h3> with the same style */
                                                                   /* Adds content before  elements */
  h1, h2, h3 {
                                                                   p::before {
   font-family: Arial, sans-serif;
                                                                     content: "Note: ";
                                                                     font-weight: bold;
   6. Attribute Selector
   Targets elements based on their attributes or attribute values.
   /* Targets all <input> elements with a type attribute of "text" */
   input[type="text"] {
    border: 1px solid #ccc;
   /* Targets all <a> elements with a title attribute */
   a[title] {
    text-decoration: underline;
   }
   9. Combining Multiple Selectors
   You can combine different types of selectors for more precise targeting.
   /* Targets <a> elements that are inside <nav> and have a class of "active" */
   nav a.active {
    color: red:
   }
   /* Targets  elements that are both direct children of <section> and have a class of "highlight" */
   section > p.highlight {
    background-color: yellow;
```

}