



11.Day11_CSS3 Inheritance, Visibility, Positions

CSS Inheritance

CSS inheritance is the mechanism by which certain properties of an element are passed down from its parent element to its child elements. This concept allows you to define styles at higher levels in the HTML hierarchy and have those styles automatically apply to nested elements, reducing the need to repeat style definitions.

Inheritance applies to properties that have a natural hierarchical relationship, such as font styles, text color, and text alignment. However, not all properties are inheritable. Some properties, like border and padding, are not inherited.

Here are some key points about CSS inheritance:

● Inheritable Properties:

Properties that are considered inheritable will pass their values from parent to child elements by default. Examples of inheritable properties include font-family, font-size, color, line-height, and text-align.

● Non-Inheritable Properties:

Properties that are not inheritable do not pass their values to child elements. Examples of non-inheritable properties include border, padding, margin, and most layout-related properties.

● inherit Keyword:

You can explicitly use the inherit keyword to make a property value inherit from its parent element, even if the property is not naturally inheritable.

● **Overriding Inherited Values:**

Child elements can override inherited values by specifying new values for inherited properties. If a child element has its own value for an inheritable property, that value takes precedence over the inherited value. This allows for customization of styles at different levels of the hierarchy.

Inheritance simplifies styling in cases where you want consistent typography, text colors, and alignment across multiple elements within a container. However, it's important to be aware of how inheritance works and to use it thoughtfully, especially when working with complex layouts and different levels of styling specificity.

Visibility

In CSS3, the visibility property is used to control the visibility of an element on a web page. It determines whether an element is displayed or hidden while still occupying its space in the layout. The visibility property has two main values: visible and hidden.

● **visibility: visible**

This is the default value. It makes the element visible and displays it on the web page. The element is rendered and takes up space in the layout.

● **visibility: hidden**

This value hides the element while preserving its layout space. The element is not displayed, but its space is still reserved.

Using the visibility property with the hidden value can be useful when you want to temporarily hide an element without affecting the overall layout. However, remember that even though the element is hidden, its HTML content remains accessible to screen readers and other assistive technologies, which is an important consideration for accessibility.

It's important to note that while the `visibility` property hides an element's content visually, it doesn't affect its position in the document flow. If you want to completely remove an element from the layout, including its space, you should consider using the `display` property with a value of `none`.

Css3 Positions

CSS3 provides different positioning methods to control the layout and positioning of elements on a web page. Here are the main position values: static, relative, absolute, fixed, and sticky. Let's explore each with example code:

static

This is the default position value. Elements are positioned according to the normal document flow.

relative

Allows you to adjust an element's position relative to its normal position in the document flow. Other elements will still occupy the original space.

absolute

Takes the element out of the normal document flow and positions it relative to its nearest positioned ancestor or the containing block. Useful for creating overlays or precisely positioning elements within a container.

fixed

Positions the element relative to the viewport, even when the page is scrolled. Useful for creating elements that stay fixed in a specific location as the user scrolls.

sticky

Behaves like relative within its container until the user scrolls to a certain threshold, then behaves like fixed. Useful for creating elements that stick to a specific position when scrolling