

The style property of a HTML element allows us to apply an inline CSS style. The style object is an associative array of key properties and applied styles. As we will see in the next few slides, we can use JavaScript to manipulate the CSS style. Most CSS JavaScript programming occurs using this object and ensures the JavaScript manipulation will always take precedence over any CSS classes or IDs applied to the DOM object.

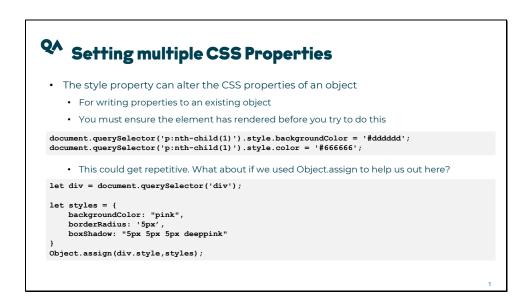
At execution, the CSS style or JavaScript is examined as a set of parameters and applied to the appropriate style keys. Via HTML rendering, any issues will fail silently. In our own JavaScript code, this is not the case and we should check for the property if we believe it may not be present for any reason.

QA Reading CSS properties

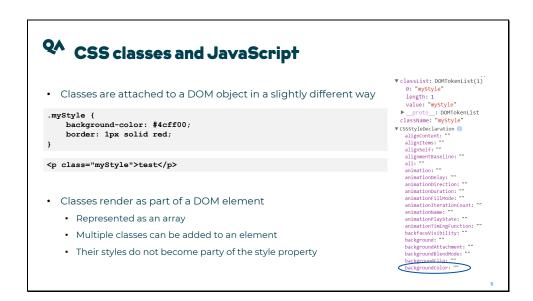
- You can access an existing CSS property and assign it to a variable
 - CSS function can request any CSS property

let bgColor = document.querySelector('p:nth-child(2)').style.backgroundColor

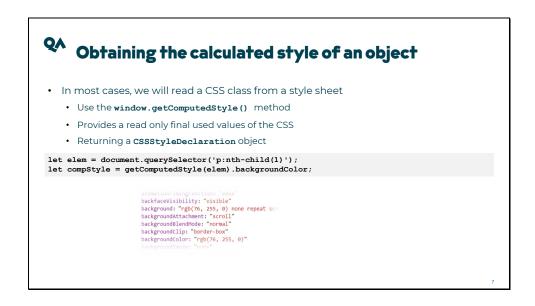
- This gives you the element's style property, if there is one
 - If the property has been set via style or JavaScript, it returns a value
 - If by CSS class or ID you do not
- You receive the value that is part of the CSS Style Object, not necessarily what has actually been rendered



The advantage of using the style object is its authority in the hierarchy of CSS application – even if a CSS class is applied, this will override those rules. Each style rule must be applied as a separate function call, which can end up being very weighty in code.

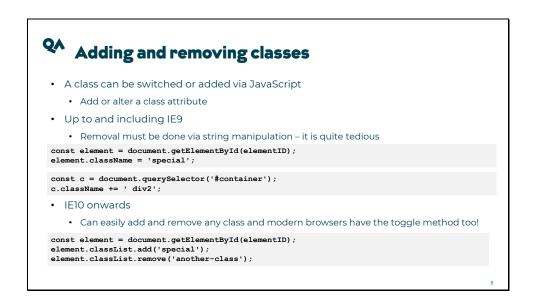


In all probability, we will be using CSS classes and in that situation, as outlined above. CSS classes apply to the DOM object, but we will not see it in the style property of the object.



getComputedStyle() gives the final used values of all the CSS properties of an element, where the returned style is a **CSSStyleDeclaration** object.

The returned object is of the same type as that of the object returned from the element's style property; however, the two objects have different purposes. The object returned from **getComputedStyle** is read-only and can be used to inspect the element's style (including those set by a <style> element or an external stylesheet). The style object should be used to set styles on a specific element.



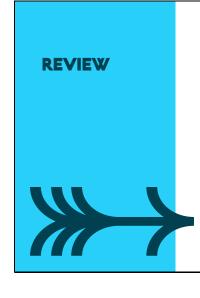
All elements can have attributes added or changed via JavaScript. The setAttribute method takes an attribute value and sets it to the new value. Any CSS class that is currently loaded into the page can be referenced in this way.

There is an alternative approach that can be used if you want to apply multiple classes. The DOM element holds all applied classes in the className property. It is simply a string value that we can append to.



QA QuickLab 11 - Manipulating Style with JavaScript

• Experiment with adding and removing styles on HTML elements



HTML to DOM rendering
Accessing the style object

- Reading style properties
- Setting style properties Understanding CSS classes
- Obtaining the object computed style
- Applying classes via JavaScript