

The difference between `querySelector` and `closest`.

Both are methods that allow you to select elements in the DOM. However, they differ in their functionality.

`querySelector`: is a method that returns the first element within the document that matches the specified selector. It returns a single element object or null if no matches are found. used to select an element based on a CSS selector.

`closest`: is a method that returns the closest ancestor of the current element (or the current element itself) that matches a specified selector. It searches up the DOM tree from the current element and returns the first ancestor that matches the selector. If no matching ancestor is found, it returns null. is used to find an ancestor element based on a CSS selector.

```
<head>
  <link rel="stylesheet" href="style.css">
</head>

<body>
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  <div class="Grandparent">
    <div class="parent">
      <div id="myElement" class="element">The parent of this div element will be selected.</div>
    </div>
  </div>

  <script src="script.js">
</script>

</body>
</html>
```

```
scripts / ...  
1  const element = document.getElementById("myElement");  
2  const closest = element.closest(".parent");  
3  if (closest) {  
4    closest.style.border = "4px solid black";  
5  }  
6  console.log(element.style=" color: red")
```

```
e.css > .parent  
.parent {  
  background-color: green;  
  color: white;  
  padding: 20px;  
  margin: 10px;  
}
```

The difference queryselector and closet method

The parent of this div element will be selected.