

Day 18



Matches(), Closest() and Contains():

What Are matches(), closest(), and contains()?

These three are DOM element methods used to check relationships between elements or find related elements in the document.

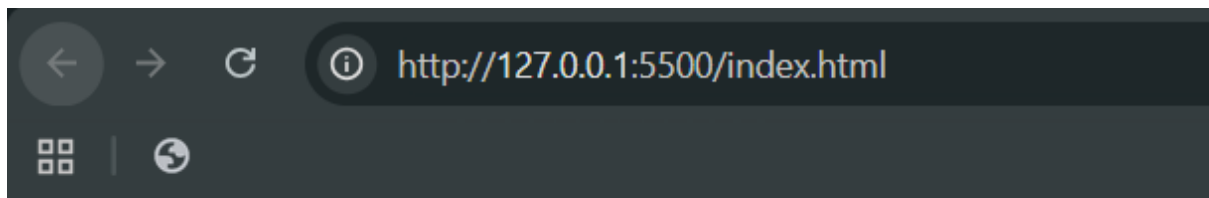
They help you:

- Check if an element fits a selector (matches)
- Find the nearest matching ancestor (closest)
- Check if one element is inside another (contains)

Now, to understand this, we will create a simple file:

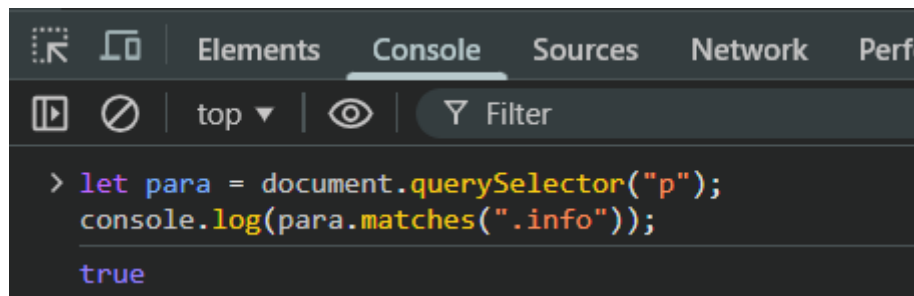
```
index.html > html > body > div.wrapper
1  <!DOCTYPE html>
2  <html>
3  <head>
4  | <title>matches(), closest(), contains()</title>
5  </head>
6  <body>
7  | <div class="wrapper">
8  |   <div class="card">
9  |   | <p class="info" id="box">Hello World!</p>
10  |   </div>
11  | </div>
12  </body>
13  </html>
```

Output:



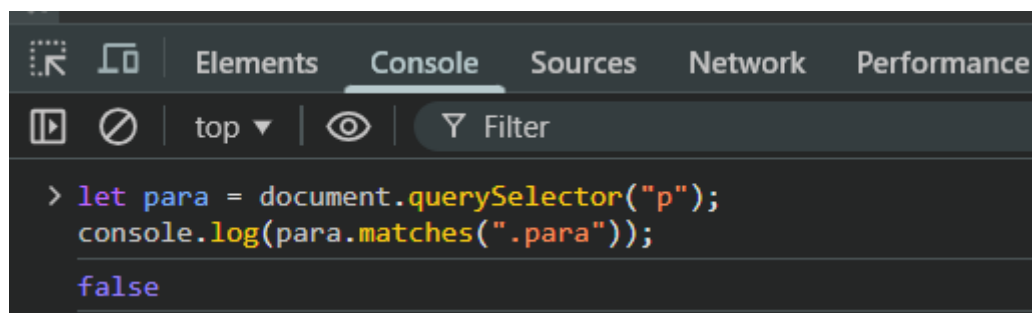
Hello World!

Now, using the matches():



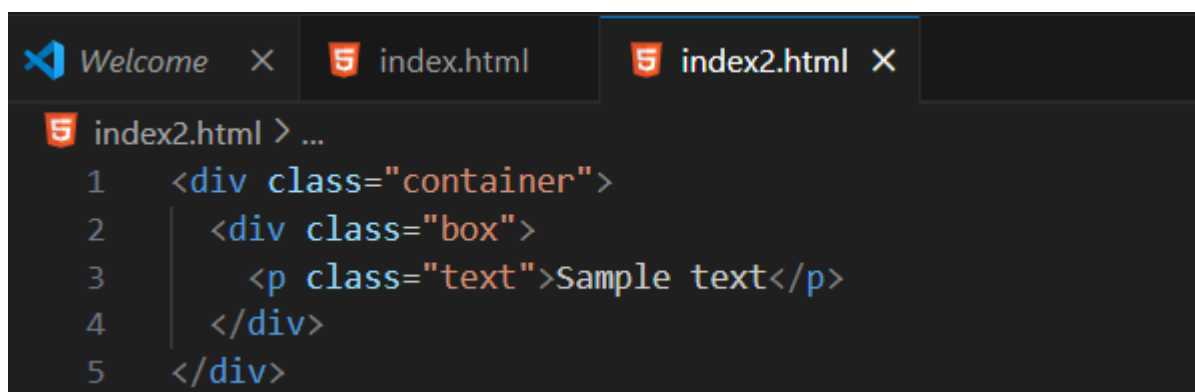
```
> let para = document.querySelector("p");  
console.log(para.matches(".info"));  
  
true
```

Now, if doesn't matches:



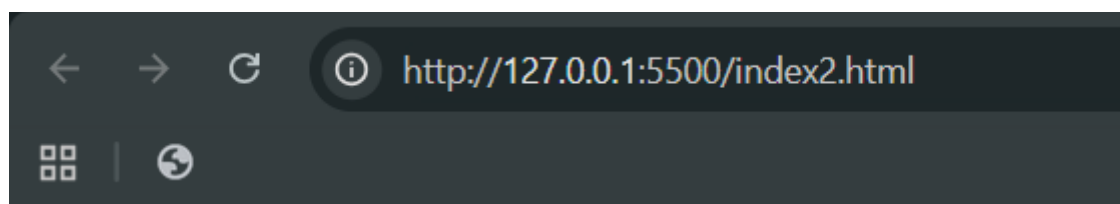
```
> let para = document.querySelector("p");  
console.log(para.matches(".para"));  
  
false
```

Now, to understand the closest(), let's create another file: index2.html



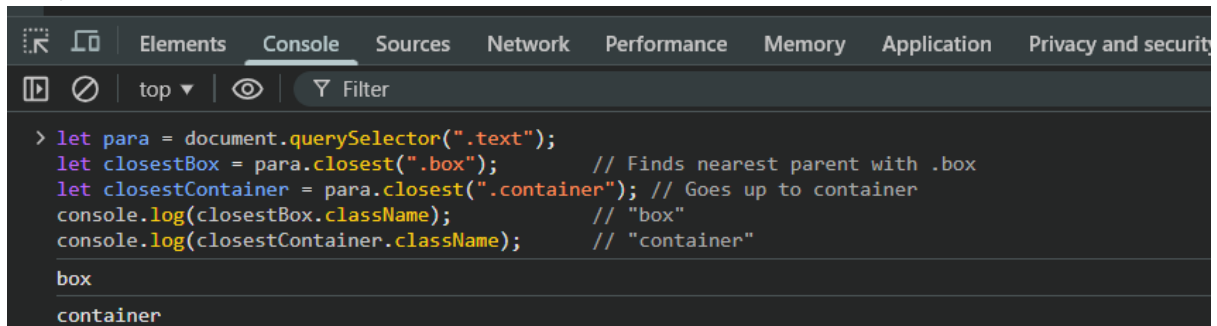
```
index2.html > ...  
1 <div class="container">  
2   <div class="box">  
3     <p class="text">Sample text</p>  
4   </div>  
5 </div>
```

Output:



Sample text

Now,



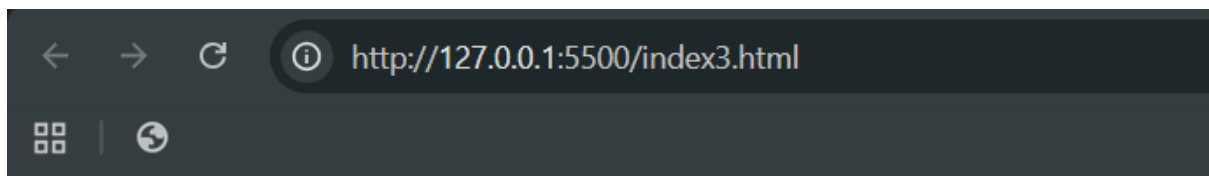
```
> let para = document.querySelector(".text");  
let closestBox = para.closest(".box"); // Finds nearest parent with .box  
let closestContainer = para.closest(".container"); // Goes up to container  
console.log(closestBox.className); // "box"  
console.log(closestContainer.className); // "container"  
  
box  
container
```

Now, to understand the contains(), we will create another file: index3.html



```
index3.html > ...  
1 <div id="parent">  
2   <p id="child">Child Element</p>  
3 </div>
```

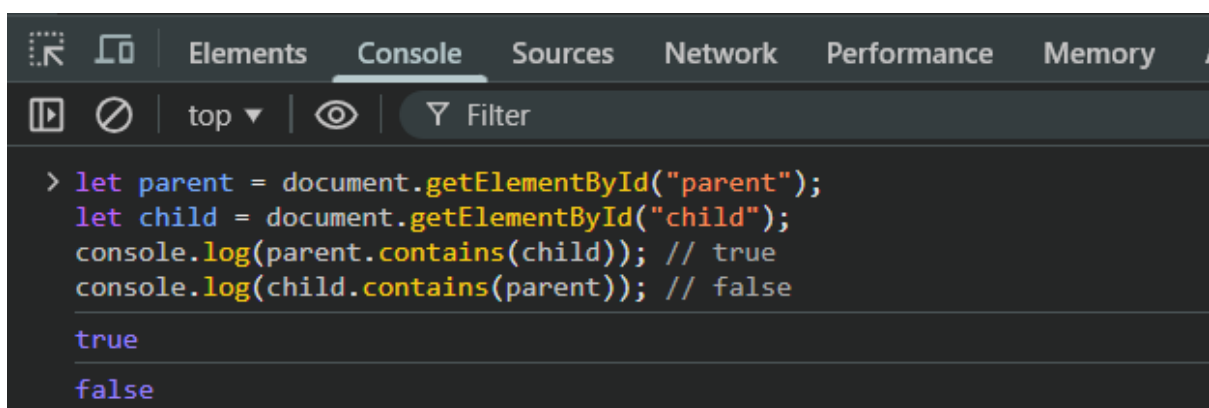
Output:



http://127.0.0.1:5500/index3.html

Child Element

Now,



```
> let parent = document.getElementById("parent");  
let child = document.getElementById("child");  
console.log(parent.contains(child)); // true  
console.log(child.contains(parent)); // false  
  
true  
false
```

--The End--