

# Query Selectors (querySelectorAll)

- The **querySelectorAll** method, which is defined both on the document object and on element nodes, takes a selector string and returns a NodeList containing all the elements that it matches.
- Unlike methods such as **getElementsByTagName**, the object returned by **querySelectorAll** is not live.
- It won't change when you change the document.
- It is still not a real array, though, so you still need to call `Array.from` if you want to treat it like one.

```
<p>And if you go chasing
  <span class="animal">rabbits</span></p>
<p>And you know you're going to fall</p>
<p>Tell 'em a <span class="character">hookah smoking
  <span class="animal">caterpillar</span></span></p>
<p>Has given you the call</p>

<script>
  function count(selector) {
    return document.querySelectorAll(selector).length;
  }
  console.log(count("p"));           // All <p> elements
  // → 4
  console.log(count(".animal"));     // Class animal
  // → 2
  console.log(count("p .animal"));   // Animal inside of <p>
  // → 2
  console.log(count("p > .animal")); // Direct child of <p>
  // → 1
</script>
```