



# Hello

☒ Click Me

Keywords/Questions:

Notes:

- [Google](#)
- Second
- Third

```
document.getElementsByTagName("li");
```

-gets all of the elements with a particular tag name. For example here it will fetch all the li elements

```
> document.getElementsByTagName("li");  
< ▶ HTMLCollection(3) [li.item, li.item, li.item]
```

-It gives us the 3 li items in the above page. It gives them as an array.

```
> document.getElementsByTagName("li").style.color = "purple";  
✖ ▶ Uncaught TypeError: Cannot set property 'color' of undefined  
at <anonymous>:1:49
```

-we can't change the style of all our li items at once.

```
document.getElementsByTagName("li")[2].style.color="purple";
```

-we are targeting the 2nd li tag and changed its color to purple.

-this will also give us the 2nd element of the array.

```
document.getElementsByClassName("btn")[0].style.color="red";
```

```
- <button class="btn">Click Me</button>
```

- this will target the 1st "btn" class and change its color to red.

```
document.getElementsByTagName("btn").style.color="red";
```

```
- ✖ ▶ Uncaught TypeError: Cannot set property 'color' of undefined  
at <anonymous>:1:52
```

-this is will result in an error even if we have only one btn.

Summary:

## More Notes

document.getElementById("title");

–selects the element with the id="title"

```
<h1 id="title">Hello</h1>
```

–There is only one particular instance of an id so if I select on the title id, then I will only get back a single item as opposed to an array of items.

**Good Bye**

–document.getElementById("title").innerHTML="Good Bye"

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document.querySelector("h1");

–targets the h1 tag

```
> document.querySelector("h1");  
<< <h1 id="title">Good Bye</h1>
```

document.querySelector("#title");

–targets the h1 tag

```
> document.querySelector("#title");  
<< <h1 id="title">Good Bye</h1>
```

document.querySelector(".btn");

–targets the element with the btn class.

```
<button class="btn">Click Me</button>
```

```
> document.querySelector(".btn");  
<< <button class="btn" style="color: red;">Click Me</button>
```

```
> document.querySelector("li a");  
<< <a href="https://www.google.com">Google</a>
```

–targets the <a> tag inside the <li>

–a hierarchical selector

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```
> document.querySelector("a");  
<< <a href="https://www.google.com">Google</a>
```

–targets the first <a> tag.

```
> document.querySelector("li.item");  
<< <li class="item">...</li>
```

–we get our first list item

–we are using a combined selector.

```
> document.querySelector("#list a");  
<< <a href="https://www.google.com">Google</a>
```

–targets the anchor tag inside the list. We are using a hierarchical selector.

```
<body>  
  <h1 id="title">Hello</h1>  
  <a href="https://www.google.com">Google</a>  
  <input type="checkbox">  
  <button class="btn">Click Me</button>  
  <ul id="list">  
    <li class="item"><a href="https://www.google.com">Google</a></li>  
    <li class="item">Second</li>  
    <li class="item">Third</li>  
  </ul>  
</body>
```

When using `document.querySelector("")`;; you get the first item that satisfies the particular selector.

```
> document.querySelector("#list .item");
< ▶ <li class="item">...</li>
```

–this gives us the first list item that satisfies the property.

```
document.querySelectorAll("#list .item");
```

–returns a list/array of all items that satisfy the particular selector.

```
> document.querySelectorAll("#list .item");
< ▶ NodeList(3) [li.item, li.item, li.item]
```

–to manipulate specific items you need to use indexes.

```
> document.querySelectorAll("#list .item")[2].style.color = "blue";
< "blue"
```

```
> document.querySelector("li a").style.color="green";
< 'green'
```

– **Hello**



- [Google](#)
- Second
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```
<body>
  <h1 id="title">Hello</h1>
  <a href="https://www.google.com">Google</a>
  <input type="checkbox">
  <button class="btn">Click Me</button>
  <ul id="list">
    <li class="item"><a href="https://www.google.com">Google</a></li>
    <li class="item">Second</li>
    <li class="item">Third</li>
  </ul>
</body>
```

```
> document.querySelector("li").style.color="green";
< 'green'
```

– **Hello**



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–Because `<li>` and `<a>` are separate elements selecting on `<li>` will only change the bullet point. The `<a>` tag inside it will not change its color.