

# JavaScript HTML DOM Collections

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## The HTMLCollection Object

The `getElementsByTagName()` method returns an `HTMLCollection` object.

An `HTMLCollection` object is an array-like list (collection) of HTML elements.

The following code selects all `<p>` elements in a document:

### Example

```
const myCollection = document.getElementsByTagName("p");
```

The elements in the collection can be accessed by an index number.

To access the second `<p>` element you can write:

```
myCollection[1]
```

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**Note:** The index starts at 0.

## HTML HTMLCollection Length

## Example

```
myCollection.length
```

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The **length** property is useful when you want to loop through the elements in a collection:

## Example

Change the text color of all <p> elements:

```
const myCollection = document.getElementsByTagName("p");
for (let i = 0; i < myCollection.length; i++) {
  myCollection[i].style.color = "red";
}
```

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## An HTMLCollection is NOT an array!

An HTMLCollection may look like an array, but it is not.

You can loop through the list and refer to the elements with a number (just like an array).

However, you cannot use array methods like `valueOf()`, `pop()`, `push()`, or `join()` on an HTMLCollection.

## Exercise <sup>?</sup>

What is a correct syntax for returning all <p> element?

document.getElementsByTagName('p')

document.all('p')

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