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JavaScript HTML DOM Elements (Nodes)

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Adding and Removing Nodes (HTML Elements)

Creating New HTML Elements (Nodes)

To add a new element to the HTML DOM, you must create the element (element node) first, and then append it to an existing element.

```
<div id="div1">
 This is a paragraph.
 This is another paragraph.
</div>
<script>
const para = document.createElement("p");
const node = document.createTextNode("This is new.");
para.appendChild(node);
const element = document.getElementById("div1");
element.appendChild(para);
</script>
```

Example Explained

This code creates a new element:

```
const para = document.createElement("p");
```

To add text to the element, you must create a text node first. This code creates a text node:

```
const node = document.createTextNode("This is a new paragraph.");
```

Then you must append the text node to the element:

```
para.appendChild(node);
```

Finally you must append the new element to an existing element.

This code finds an existing element:

```
const element = document.getElementById("div1");
```

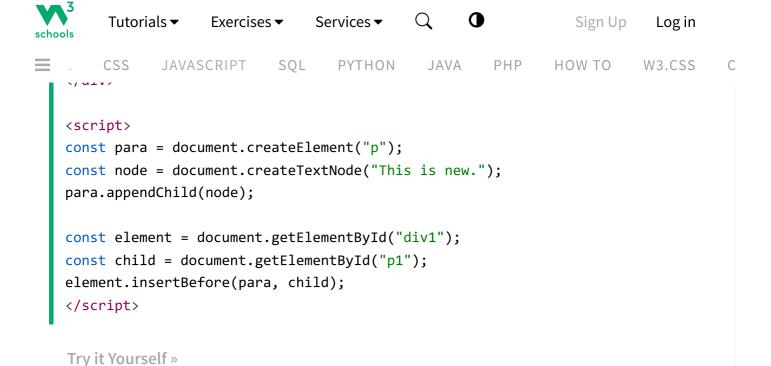
This code appends the new element to the existing element:

```
element.appendChild(para);
```

Creating new HTML Elements - insertBefore()

The appendChild() method in the previous example, appended the new element as the last child of the parent.

If you don't want that you can use the insertBefore() method:



Removing Existing HTML Elements

To remove an HTML element, use the remove() method:

Example

Example Explained

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```
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cp id="p1">This is a paragraph.
cp id="p2">This is another paragraph.
</div>
```

Find the element you want to remove:

```
const elmnt = document.getElementById("p1");
```

Then execute the remove() method on that element:

```
elmnt.remove();
```

The remove() method does not work in older browsers, see the example below on how to use removeChild() instead.

Removing a Child Node

For browsers that does not support the remove() method, you have to find the parent node to remove an element:

```
<div id="div1">
    This is a paragraph.
    This is another paragraph.
    </div>
</pr>

<script>
const parent = document.getElementById("div1");
const child = document.getElementById("p1");
parent.removeChild(child);
</script>
```



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Example Explained

This HTML document contains a <div> element with two child nodes (two elements):

```
<div id="div1">
 This is a paragraph.
 This is another paragraph.
</div>
```

Find the element with id="div1":

```
const parent = document.getElementById("div1");
```

Find the element with id="p1":

```
const child = document.getElementById("p1");
```

Remove the child from the parent:

```
parent.removeChild(child);
```

Here is a common workaround: Find the child you want to remove, and use its parentNode property to find the parent:

```
const child = document.getElementById("p1");
child.parentNode.removeChild(child);
```

Replacing HTML Elements

To replace an element to the HTML DOM, use the replaceChild() method:



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```
<script>
const para = document.createElement("p");
const node = document.createTextNode("This is new.");
para.appendChild(node);
const parent = document.getElementById("div1");
const child = document.getElementById("p1");
parent.replaceChild(para, child);
</script>
```

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Exercise?

What is a correct syntax for creating a new <h1> element?

- O document.appendChild('h1');
- O document.newElement('h1');
- O document.createElement('h1');

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