

# REMOVING NODES

## IN THIS LESSON

`remove()`

`removeChild()`

`firstElementChild`

## remove()

You must have a reference to the exact node to remove

```
nodeToRemove.remove();
```

## removeChild()

You must have a reference to a parent node

```
parentNode.removeChild(parentNode.firstChild);
```

When you remove a node (with either **remove()** or **removeChild()**), all child nodes of the removed node are removed as well

## removeChild()

```
while (parentNode.firstChild) {  
  parentNode.removeChild(parentNode.firstChild);  
}
```

This while loop will remove all children of the parentNode, but leave the parentNode

## firstElementChild

Similar to firstChild

```
parentNode.firstElementChild
```

Will return the first element child of a node, skipping any text nodes or other kinds of nodes

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  ....<meta charset="utf-8" />
5  ....<title>Removing Nodes Demo</title>
6  ....<style>
7  ....  body {
8  ....    font-size: 24px;
9  ....  }
10 ....</style>
11 </head>
12 <body>
13 ....<ul id="myList">
14 ....  ....<li>Chicago Bulls</li>
15 ....  ....<li>Portland Trail Blazers</li>
16 ....  ....<li>Miami Heat</li>
17 ....  ....<li>Phoenix Suns</li>
18 ....</ul>
19
20 ....<button type="button" onclick="removeFirstChild()">Remove list first child with removeChild()</button>
21 ....<button type="button" onclick="removeAllListChildren()">Remove all list children with removeChild()</button>
22 ....<button type="button" onclick="removeList()">Remove entire list with remove()</button>
23 ....<p>Reload the page to reset the DOM and bring the list back.</p>
24
25 ....<script>
26 ....  ....const listNode = document.querySelector('#myList');
```

```
22 .....<button type="button" onclick="removeList()">Remove entire list with remove()</button>
23 .....<p>Reload the page to reset the DOM and bring the list back.</p>
24
25 .....<script>
26 .....const listNode = document.querySelector('#myList');
27
28 .....function removeListFirstChild(){
29 .....|   listNode.removeChild(listNode.firstChild);
30 .....| }
31
32 .....function removeAllListChildren(){
33 .....|   while (listNode.firstChild){
34 .....|     listNode.removeChild(listNode.firstChild);
35 .....|   }
36 .....| }
37
38 .....function removeList(){
39 .....|   listNode.remove();
40 .....| }
41 .....</script>
42 </body>
43 </html>
44
```



- Chicago Bulls
- Portland Trail Blazers
- Miami Heat
- Phoenix Suns

Remove list first child with removeChild()

Remove all list children with removeChild()

Remove entire list with remove()

Reload the page to reset the DOM and bring the list back.

```
<!doctype html>
...<html lang="en"> == $0
  <head>...</head>
  <body>
    <ul id="myList">
      <li>Chicago Bulls</li>
      <li>Portland Trail Blazers</li>
      <li>Miami Heat</li>
      <li>Phoenix Suns</li>
    </ul>
    <button type="button" onclick="removeListFirstChild()">Remove
    child with removeChild()</button>
    <button type="button" onclick="removeAllListChildren()">Remove
    children with removeChild()</button>
    <button type="button" onclick="removeList()">Remove entire l
    remove()</button>
    <p>Reload the page to reset the DOM and bring the list back.
  </body>
</html>
<script>...</script>
  <!-- Code injected by live-server -->
  <script type="text/javascript">...</script>
```

html

Styles Event Listeners DOM Breakpoints Properties Accessibility

Filter :hov .cls +



Reload the page to reset the DOM and bring the list back.



Elements

Console

Sources

Network

Performance

```
<!doctype html>
...<html lang="en"> == $0
  <head>...</head>
  <body>
    <button type="button" onclick="removeListFirstChild()">Remove
    with removeChild()</button>
    <button type="button" onclick="removeAllListChildren()">Remo
    children with removeChild()</button>
    <button type="button" onclick="removeList()">Remove entire l
    </button>
    <p>Reload the page to reset the DOM and bring the list back.
  </script>...</script>
  <!-- Code injected by live-server -->
  <script type="text/javascript">...</script>
</body>
</html>
```

html

Styles

Event Listeners

DOM Breakpoints

Properties

Accessibility

Filter

:hov

.cls



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Remove list first child with removeChild()  
Remove all list children with removeChild()  
Remove entire list with remove()

Reload the page to reset the DOM and bring the list back.

```
<!doctype html>
<html lang="en"> == $0
  <head>...</head>
  <body>
    <ul id="myList">
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      <li>Portland Trail Blazers</li>
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</html>
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<!-- Code injected by live-server -->
<script type="text/javascript">...</script>
```

html

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Filter :hov .cls +

Remove list first child with removeChild() Remove all list children with removeChild()

ul#myList 574 x 0 with remove()

Reload the page to reset the DOM and bring the list back.

```
<!doctype html>
<html lang="en"> == $0
  <head>...</head>
  <body>
    <ul id="myList"></ul>
    <button type="button" onclick="removeListFirstChild()">Remove
    with removeChild(</button>
    <button type="button" onclick="removeAllListChildren()">Remo
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html

Styles Event Listeners DOM Breakpoints Properties Accessibility

Filter :hov .cls +

- Portland Trail Blazers
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Remove list first child with `removeChild()`

Remove all list children with `removeChild()`

Remove entire list with `remove()`

Reload the page to reset the DOM and bring the list back.

```
<!doctype html>
<html lang="en">
  <head>...</head>
  <body>
    ... <ul id="myList"> == $0
      <li>Portland Trail Blazers</li>
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  </script>...</script>
  <!-- Code injected by live-server -->
  <script type="text/javascript">...</script>
</body>
```

html body ul#myList

Styles Event Listeners DOM Breakpoints Properties Accessibility

Filter :hov .cls +



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Remove list first child with removeChild()

Remove all list children with removeChild()

Remove entire list with remove()

Reload the page to reset the DOM and bring the list back.

Elements Console Sources Network Performance

top Filter All view

```
> listNode.childNodes
< ▼ NodeList(9) [text, li, text, li, text, li, text, li, text]
  ▼ 0: text
    assignedSlot: null
    baseURI: "http://127.0.0.1:5500/removing-nodes.html"
    ▶ childNodes: NodeList []
    data: ""
    firstChild: null
    isConnected: true
    lastChild: null
    length: 9
    ▶ nextElementSibling: li
    ▶ nextSibling: li
    nodeName: "#text"
    nodeType: 3
    nodeValue: ""
    ▶ ownerDocument: document
    ▶ parentElement: ul#myList
    ▶ parentNode: ul#myList
    previousElementSibling: null
    previousSibling: null
    textContent: ""
    wholeText: ""
    ▶ __proto__: Text
```

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Reload the page to reset the DOM and bring the list back.

```
Elements Console Sources Network Performance
top [Filter] All levels
> listNode.childNodes
< ▶ NodeList(9) [text, li, text, li, text, li, text, li, text]
> listNode.childNodes
< ▶ NodeList(8) [li, text, li, text, li, text, li, text]
> listNode.childNodes
< ▶ NodeList(7) [text, li, text, li, text, li, text]
> listNode.childNodes
< ▶ NodeList(6) [li, text, li, text, li, text]
> |
```

&lt;&gt; removing-nodes.html X

```
22 .....<button type="button" onclick="removeList()">Remove entire list with remove()</button>
23 .....<p>Reload the page to reset the DOM and bring the list back.</p>
24
25 .....<script>
26 .....const listNode = document.querySelector('#myList');
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28 .....function removeListFirstChild()-{
29 .....listNode.removeChild(listNode.firstChild);
30 .....}
31
32 .....function removeAllListChildren()-{
33 .....while (listNode.firstChild)-{
34 .....listNode.removeChild(listNode.firstChild);
35 .....}
36 .....}
37
38 .....function removeList()-{
39 .....listNode.remove();
40 .....}
41 .....</script>
42 </body>
43 </html>
44
```