

DOM Manipulation

ITP 301
Spring 2021

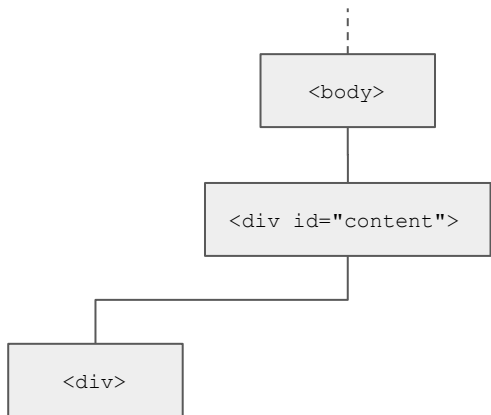
Creating DOM Nodes

```
document.createElement( tag)
```

Create a new HTML *tag*.

```
Parent.appendChild( newNode)
```

Add *newNode* to the DOM as the last child of *Parent*.



```
// Create a new <div> tag.
```

```
var div = document.createElement('div');
```

```
// Add 'div' as last child of #content.
```

```
document.querySelector('#content').appendChild(div);
```

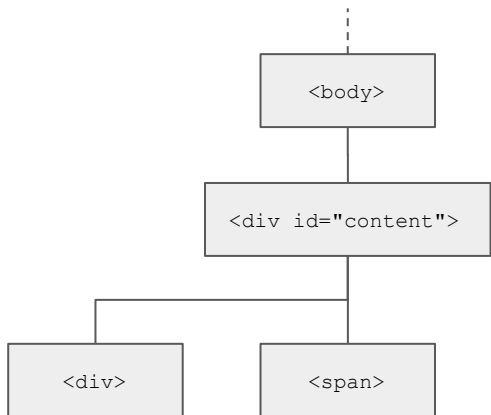
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```

```
document.querySelector('#content').appendChild(div);
```

```
// Create a new <span> tag.
```

```
var span = document.createElement('span');
```

```
// Add 'span' as last child of #content.
```

```
document.querySelector('#content').appendChild(span);
```

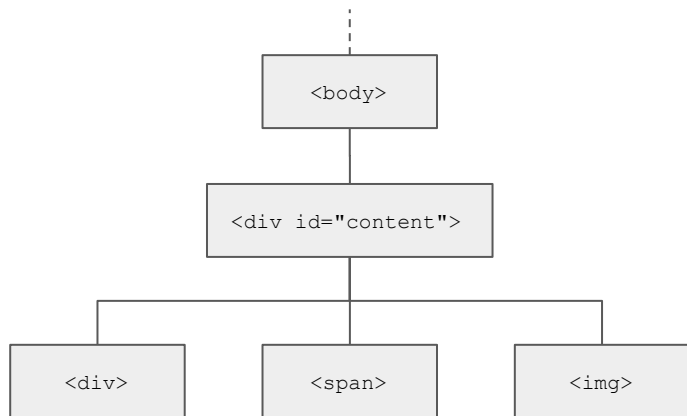
Creating DOM Nodes

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Create a new HTML *tag*.

`Parent.appendChild(newNode)`

Add *newNode* to the DOM as the last child of *Parent*.



`.classList.add('class-name')`

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```

```
var span = document.createElement('span');
```

```
// Add 'span' as last child of #content.
```

```
document.querySelector('#content').appendChild(span);
```

```
// Create a new <img> tag, set 'src' and 'alt' attributes.
```

```
var img = document.createElement('img');
```

```
img.src = 'image.jpg';
```

```
img.alt = 'alternate text';
```

```
// Add 'img' as last child of #content.
```

```
document.querySelector('#content').appendChild(img);
```

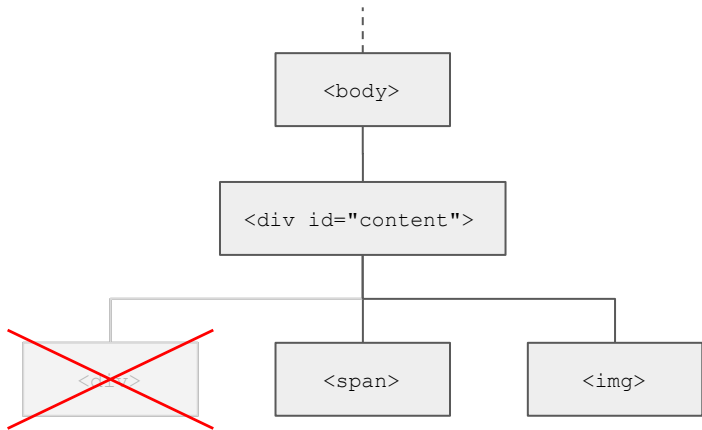
Removing DOM Nodes

`Parent.removeChild(Node)`

Remove *Node* child of *Parent*.

`Node.remove()`

Remove *Node* element.



```
var parentNode = document.querySelector('#content');
```

```
// Remove first child from 'parentNode' element.  
parentNode.removeChild( parentNode.children[0] );
```

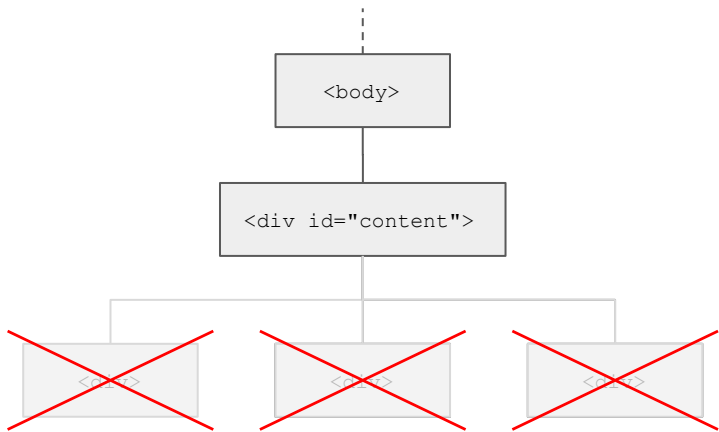
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```
var parentNode = document.querySelector('#content');
```

```
// Remove first child from 'parentNode' element.  
parentNode.removeChild( parentNode.children[0] );
```

```
// Remove all children from 'parentNode' element.  
parentNode.innerHTML = '';
```

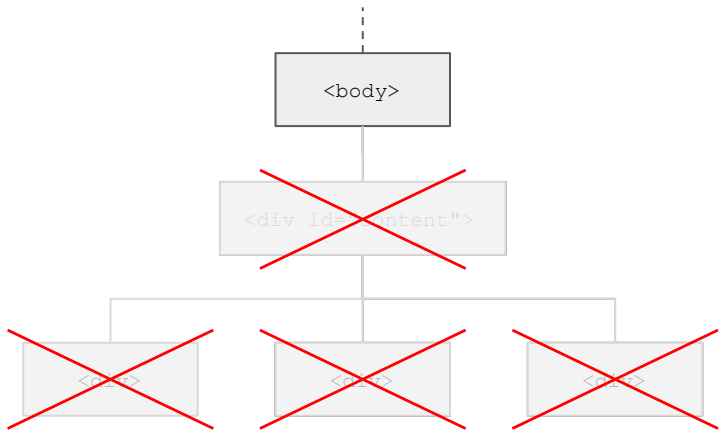
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```
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```
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```

```
// Remove all children from 'parentNode' element.  
parentNode.innerHTML = '';
```

```
// Remove 'parentNode' element.  
parentNode.remove()
```

Add / Remove Classes

```
Node.classList.add( class1,  
class2, class3, ...)
```

Add *class1*, *class2*, *class3* to *Node* element.

```
Node.classList.remove( class)
```

Remove *class* from *Node* element.

```
<div id="box" class="class_1">  
  ...  
</div>
```

```
document.querySelector('#box').classList.add('class_1');
```


Add / Remove Classes

```
Node.classList.add( class1,  
class2, class3, ...)
```

Add *class1*, *class2*, *class3* to *Node* element.

```
Node.classList.remove( class)
```

Remove *class* from *Node* element.

```
<div id="box" class="class_1 class_2 class_3">  
  ...  
</div>
```

```
document.querySelector('#box').classList.add('class_1');
```

```
document.querySelector('#box').classList.add('class_2', 'class_3');
```

Add / Remove Classes

```
Node.classList.add( class1,  
class2, class3, ...)
```

Add *class1*, *class2*, *class3* to *Node* element.

```
Node.classList.remove( class)
```

Remove *class* from *Node* element.

```
<div id="box" class="class_1 class_3">  
  ...  
</div>
```

```
document.querySelector('#box').classList.add('class_1');
```

```
document.querySelector('#box').classList.add('class_2', 'class_3');
```

```
document.querySelector('#box').classList.remove('class_2');
```