

How to create a html button element using Typescript

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Key

```
let btCommon:HTMLElement = document.createElement('button');  
btCommon.setAttribute("id", strID);
```

Detail

HTML Only

```
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <title></title>  
</head>  
<body>  
</body>  
<script type="application/javascript">  
    function createBt() {  
        let button = document.createElement("button");  
        button.innerHTML = 'ok'; // set the button content = "ok"  
        button.addEventListener('click', function() {  
            console.log('clicked');  
        });  
        var body = document.getElementsByTagName("body")[0];  
        body.appendChild(button);  
    }  
    createBt();  
</script>  
</html>
```

HTML/Javascript

client.html

```
<!-- File: client.html -->
<!doctype html>
<html lang="en">
<body>
<h1>Test</h1>
<script src="client.js"></script>
```

Pure version

```
// client.js
'use strict';

let button = document.createElement('button');
button.innerHTML = 'ok'; // set the button content = "ok"
button.addEventListener('click', function() {
    console.log('clicked');
});

var body = document.getElementsByTagName("body")[0];
body.appendChild(button);
```

Class version

client.js

```
class XXX {
    strBtStopId:string = 'strBtStopId';

    _initBtStop(){
        this._initBtComm('Stop', this.strBtStopId, () => {
            console.log('Clicked Stop button');
        });
    }

    _initBtComm(strTitle:string, strID:string, listener:any) {
        let btCommon:HTMLElement = document.createElement('button');
        btCommon.setAttribute("id", strID);
        btCommon.innerHTML = strTitle; // set the button content
```

```

    btCommon.addEventListener('click', listener);

    var body = document.getElementsByTagName("body")[0];
    body.appendChild(btCommon);
  }
}
}

```

Function

a.

```

let body = document.getElementsByTagName("body")[0];

function createHtmlElement(strStyle, strTitle, funClickCallback){
  let ele = document.createElement(strStyle);
  if(strTitle != null)
    ele.innerHTML = strTitle;
  if (funClickCallback != null)
    ele.addEventListener('click', funClickCallback);
  return ele;
}

function createHtmlButton(strTitle, funClickCallback, body){
  let ele = createHtmlElement('button', strTitle, funClickCallback);
  if(body == null){
    console.log('Error: createHtmlButton::body == null')
    return null;
  }

  body.appendChild(ele);
  return ele;
}

function cbConnect(){
  console.log('cbConnect::start to connect and send message');
}

// Usage
createHtmlButton("ok", cbConnect, body);

```

References

1. <https://codepen.io/davidcochran/pen/WbWXoa>
2. <https://developer.mozilla.org/en-US/docs/Web/API/HTMLElement>