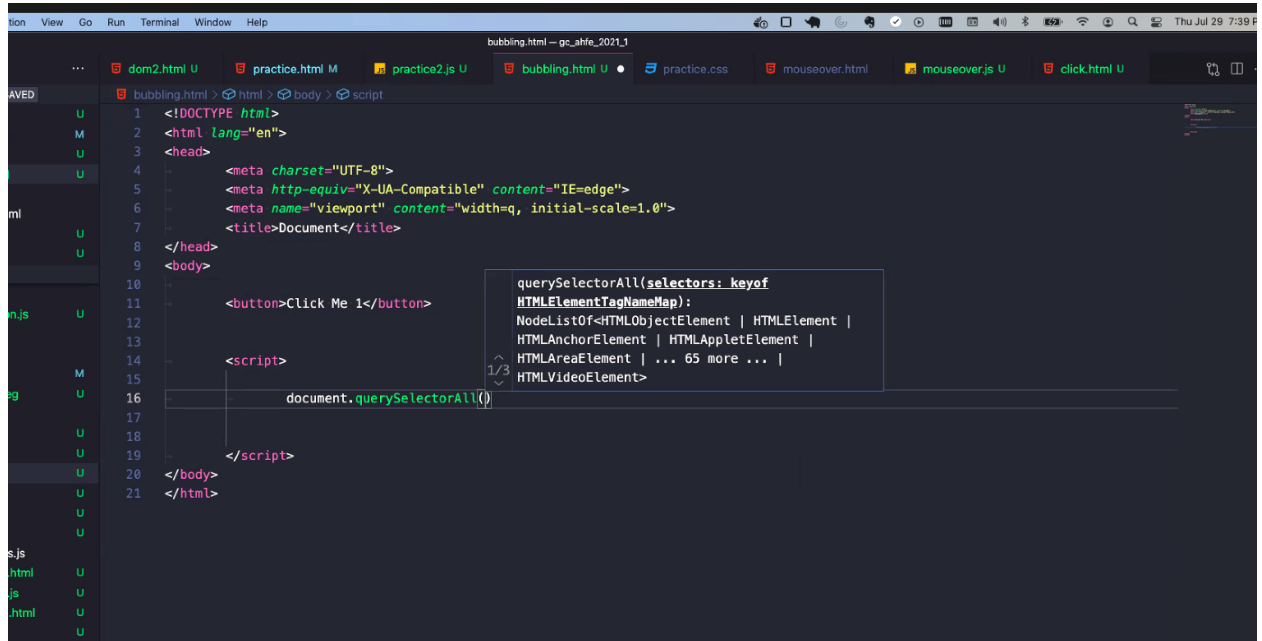


July 30, 2021

New Material



The screenshot shows a web browser window with the address bar displaying "bubbling.html - ge_ahfe_2021.1". The browser's developer tools are open, showing the HTML document structure. The document contains the following code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9 <body>
10
11   <button>Click Me 1</button>
12
13
14   <script>
15     document.querySelector()
16
17
18
19   </script>
20 </body>
21 </html>
```

A tooltip for the `querySelectorAll` method is visible, showing the following signature and return type:

```
querySelectorAll(selectors: keyof
HTMLElementTagNameMap):
NodeListOf<HTMLElement | HTML
HTMLAnchorElement | HTMLAppletElement |
HTMLAreaElement | ... 65 more ... |
HTMLVideoElement>
```

```
...  dom2.html U  practice.html M  practice2.js U  bubbling.html U  practice.css  mouseover.html  mouseover.js U  cl...
bubbling.html > html > body > script > buttons
U  1  <!DOCTYPE html>
M  2  <html lang="en">
U  3  <head>
U  4  <meta charset="UTF-8">
5  <meta http-equiv="X-UA-Compatible" content="IE=edge">
6  <meta name="viewport" content="width=device-width, initial-scale=1.0">
7  <title>Document</title>
8  </head>
U  9  <body>
10
11  <button>Click Me 1</button>
12
13
14  <script>
M  15
U  16  const buttons = document.querySelectorAll('button');
17
U  18  buttons.forEach(button => button.addEventListener('click', () => {
U  19  console.log('CLICKED!!!!');
U  20  }));
21
U  22
U  23  </script>
24  </body>
U  25  </html>
U
U
U
U
U
U
U
U
```

```
...  dom2.html U  practice.html M  practice2.js U  bubbling.html U  practice.css  mouseover.html  mouseover.js U
bubbling.html > html > body > script
U  11  <body>
M  12
U  13  <button>Click Me 1</button>
U  14
15
16  <script>
U  17  const newButton = document.createElement('button');
U  18  newButton.innerText = 'Click Me 2';
19
U  20  document.body.append(newButton);
21
U  22
23
M  24  </script>
U  25  </body>
26
U  27  </html>
U
U
U
U
U
```

```
bubbling.html > html > body > script > document.body.addEventListener('click') callback
6 <meta http-equiv="X-UA-Compatible" content="IE=edge" />
7 <meta name="viewport" content="width=device-width, initial-scale=1.0">
8 <title>Document</title>
9 </head>
10
11 <body>
12
13 <button>Click Me 1</button>
14
15 <div id="something">
16
17 </div>
18
19 <script>
20     document.body.addEventListener('click', (event) => {
21         console.log(event.target);
22     })
23
24
25
26     const newButton = document.createElement('button');
27     newButton.innerText = 'Click Me 2';
28
29     document.getElementById('something').append(newButton);
30 </script>
31 </body>
32
33 </html>
```

```

18
19     <script>
20         document.body.addEventListener('click', (event) => {
21             console.log(event.target);
22         })
23
24
25         for (let i = 0; i < 2000; i++) {
26
27             const newButton = document.createElement('button');
28             newButton.innerText = 'Click Me ' + i;
29             document.body.append(newButton);
30         }
31     </script>
32 </body>
33
34 </html>

```

```

8
9     <script>
0         document.body.addEventListener('click', (event) => {
1             event.target.remove();
2         })
3
4
5         for (let i = 0; i < 2000; i++) {
6
7             const newButton = document.createElement('button');
8             newButton.innerText = 'Click Me ' + i;
9             document.body.append(newButton);
0         }
1     </script>
2 </body>
3
4 </html>

```

```

5      <meta charset="UTF-8">
6      <meta http-equiv="X-UA-Compatible" content="IE=edge">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <title>Document</title>
9  </head>
10
11  <body>
12
13      <ul>
14          <li>Matt</li>
15          <li>Jack</li>
16          <li>Sasha</li>
17      </ul>
18
19      <script>
20          document.querySelector('ul').addEventListener('click', (event) => {
21              event.target.remove();
22          });
23      </script>
24  </body>
25
26  </html>

```

Or

```

5      <meta charset="UTF-8">
6      <meta http-equiv="X-UA-Compatible" content="IE=edge">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <title>Document</title>
9  </head>
10
11  <body>
12
13      <ul>
14          <li>Matt</li>
15          <li>Jack</li>
16          <li>Sasha</li>
17      </ul>
18
19      <script>
20          document.body.addEventListener('click', (event) => {
21              event.target.remove();
22          });
23      </script>
24  </body>
25
26  </html>

```

New Material Inputs & Forms

```
inputs.html — gc_ahfe_2021_1
inputs.html > html > body > script > addEventListener('click') callback
11 <body>
12
13   <form id="checkoutForm">
14
15     <input name="name" />
16     <input name="address" />
17     <input name="city" />
18
19   </form>
20
21   <button id="checkout">Checkout</button>
22
23   <script>
24     document.getElementById('checkout').addEventListener('click', () => {
25
26       const form = document.getElementById('checkoutForm');
27       var FormData: new (form?: HTMLFormElement) => FormData
28       const formData = new FormData(form);
29
30       console.log(formData);
31
32       console.log(`Name: ${formData.get('name')}`);
33       console.log(`Address: ${formData.get('address')}`);
34       console.log(`City: ${formData.get('city')}`);
35
36     });
37   </script>
38 </body>
```

Ln 30, Col 47 Tab Size: 8 UTF-8 LF HT

inputs.html — gc_ahfe_2021_1

inputs.html U ×

inputs.html > html > body > script > addEventListener('click') callback

U

11 <body>

12

U

13 <form id="checkoutForm">

14

U

15 <input name="name" />

U

16 <input name="address" />

U

17 <input name="city" />

U

18

U

19 </form>

U

20

21 <button id="checkout">Checkout</button>

22

23 <script>

U

24 document.getElementById('checkout').addEventListener('click', () => {

U

25

26 const form = document.getElementById('checkoutForm');

27 var FormData: new (form?: HTMLFormElement) => FormData

28 const formData = new FormData(form);

29

U

30 console.log(formData);

31

U

32 console.log(`Name: \${formData.get('name')}`);

U

33 console.log(`Address: \${formData.get('address')}`);

U

34 console.log(`City: \${formData.get('city')}`);

35

36 });

37 </script>

38 </body>

Ln 30, Col 47 Tab Size: 8 UTF-8 LF HT

```

<body>

  <form id="checkoutForm">

    <input name="name" />
    <input name="address" />
    <input name="city" />

    <button type="submit" id="checkout">Checkout</button>

  </form>

  <a href="https://stockx.com"></a>

  <script>
    document.getElementById('checkoutForm').addEventListener('submit', (event) => {

      event.preventDefault();

    });
  </script>
</body>

</html>

```

```

10
11 <body>
12
13   <form id="checkoutForm">
14
15     <input name="name" />
16     <input name="address" />
17     <input name="city" />
18
19     <button type="submit" id="checkout">Checkout</button>
20   </form>
21
22   <a href="https://stockx.com">StockX</a>
23
24   <script>
25     document.querySelector('a').addEventListener('click', (event) => {
26       event.preventDefault();
27     })
28   </script>
29 </body>
30
31 </html>

```