

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates programmatic changes to style -->
4
5 <html lang="en">
6   <head>
7     <title>background</title>
8   </head>
9   <body>
10    <button id="red">R</button>
11    <button id="green">G</button>
12    <button id="blue">B</button>
13    <script>
14
15      let body = document.querySelector('body');
16      document.querySelector('#red').onclick = function() {
17        body.style.backgroundColor = 'red';
18      };
19      document.querySelector('#green').onclick = function() {
20        body.style.backgroundColor = 'green';
21      };
22      document.querySelector('#blue').onclick = function() {
23        body.style.backgroundColor = 'blue';
24      };
25
26    </script>
27  </body>
28 </html>
```

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <script>
6
7        // Toggles visibility of greeting
8        function blink()
9        {
10         let body = document.querySelector('body');
11         if (body.style.visibility == 'hidden')
12         {
13           body.style.visibility = 'visible';
14         }
15         else
16         {
17           body.style.visibility = 'hidden';
18         }
19       }
20
21       // Blink every 500ms
22       window.setInterval(blink, 500);
23
24     </script>
25     <title>blink</title>
26   </head>
27   <body>
28     hello, world
29   </body>
30 </html>
```

```
1  <!DOCTYPE html>
2
3  <!-- Demonstrates Bootstrap -->
4
5  <html lang="en">
6    <head>
7
8      <meta charset="utf-8">
9      <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
10
11     <link crossorigin="anonymous" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/
bootstrap.min.css" integrity="sha384-Vkoo8x4CGs03+Hhvx8T/Q5PaXtkKtu6ug5T0eNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
rel="stylesheet">
12
13     <title>bootstrap</title>
14
15   </head>
16   <body>
17     <div class="container">
18       <header>
19         John Harvard
20       </header>
21       <main>
22         Welcome to my home page!
23       </main>
24       <footer>
25         Copyright &#169; John Harvard
26       </footer>
27     </div>
28   </body>
29 </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates inline CSS -->
4
5 <html lang="en">
6   <head>
7     <title>css0</title>
8   </head>
9   <body>
10    <header style="font-size: large; text-align: center;">
11      John Harvard
12    </header>
13    <main style="font-size: medium; text-align: center;">
14      Welcome to my home page!
15    </main>
16    <footer style="font-size: small; text-align: center;">
17      Copyright &#169; John Harvard
18    </footer>
19  </body>
20 </html>
```

```
1  <!DOCTYPE html>
2
3  <!-- Demonstrates inheritance -->
4
5  <html lang="en">
6    <head>
7      <title>css1</title>
8    </head>
9    <body style="text-align: center;">
10     <header style="font-size: large;">
11       John Harvard
12     </header>
13     <main style="font-size: medium;">
14       Welcome to my home page!
15     </main>
16     <footer style="font-size: small;">
17       Copyright &#169; John Harvard
18     </footer>
19   </body>
20 </html>
```

```
1  <!DOCTYPE html>
2
3  <!-- Demonstrates CSS classes -->
4
5  <html lang="en">
6    <head>
7      <style>
8
9        .centered
10       {
11         text-align: center;
12       }
13
14       .large
15       {
16         font-size: large;
17       }
18
19       .medium
20       {
21         font-size: medium;
22       }
23
24       .small
25       {
26         font-size: small;
27       }
28
29     </style>
30     <title>css2</title>
31   </head>
32   <body class="centered">
33     <header class="large">
34       John Harvard
35     </header>
36     <main class="medium">
37       Welcome to my home page!
38     </main>
39     <footer class="small">
40       Copyright &#169; John Harvard
41     </footer>
42   </body>
43 </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates CSS selectors -->
4
5 <html lang="en">
6   <head>
7     <style>
8
9       body
10      {
11        text-align: center;
12      }
13
14      header
15      {
16        font-size: large;
17      }
18
19      main
20      {
21        font-size: medium;
22      }
23
24      footer
25      {
26        font-size: small;
27      }
28
29    </style>
30    <title>css3</title>
31  </head>
32  <body>
33    <header>
34      John Harvard
35    </header>
36    <main>
37      Welcome to my home page!
38    </main>
39    <footer>
40      Copyright &#169; John Harvard
41    </footer>
42  </body>
43 </html>
```

```
1  body
2  {
3      text-align: center;
4  }
5
6  header
7  {
8      font-size: large;
9  }
10
11 main
12 {
13     font-size: medium;
14 }
15
16 footer
17 {
18     font-size: small;
19 }
```



```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates external stylesheets -->
4
5 <html lang="en">
6   <head>
7     <link href="css4.css" rel="stylesheet">
8     <title>css4</title>
9   </head>
10  <body>
11    <header>
12      John Harvard
13    </header>
14    <main>
15      Welcome to my home page!
16    </main>
17    <footer>
18      Copyright &#169; John Harvard
19    </footer>
20  </body>
21 </html>
```

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <title>geolocation</title>
6    </head>
7    <body>
8      <script>
9
10         navigator.geolocation.getCurrentPosition(function(position) {
11             document.write(position.coords.latitude + ", " + position.coords.longitude);
12         });
13
14     </script>
15 </body>
16 </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates headings (for chapters, sections, subsections, etc.) -->
4
5 <html lang="en">
6   <head>
7     <title>headings</title>
8   </head>
9   <body>
10    <h1>One</h1>
11    <h2>Two</h2>
12    <h3>Three</h3>
13    <h4>Four</h4>
14    <h5>Five</h5>
15    <h6>Six</h6>
16  </body>
17 </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates HTML -->
4
5 <html lang="en">
6   <head>
7     <title>hello0</title>
8   </head>
9   <body>
10    hello, world
11  </body>
12 </html>
```

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <script>
6
7        function greet()
8        {
9          alert('hello, ' + document.querySelector('#name').value);
10         }
11
12      </script>
13      <title>hello1</title>
14    </head>
15    <body>
16      <form onsubmit="greet(); return false;">
17        <input autocomplete="off" autofocus id="name" placeholder="Name" type="text">
18        <input type="submit">
19      </form>
20    </body>
21  </html>
```

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <title>hello2</title>
6    </head>
7    <body>
8      <form>
9        <input autocomplete="off" autofocus id="name" placeholder="Name" type="text">
10       <input type="submit">
11     </form>
12     <script>
13
14       document.querySelector('form').onsubmit = function() {
15         alert('hello, ' + document.querySelector('#name').value);
16         return false;
17       };
18
19     </script>
20   </body>
21 </html>
```

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <script>
6
7        document.addEventListener('DOMContentLoaded', function() {
8          document.querySelector('form').onsubmit = function() {
9            alert('hello, ' + document.querySelector('#name').value);
10           return false;
11         };
12       });
13
14     </script>
15     <title>hello3</title>
16   </head>
17   <body>
18     <form>
19       <input autocomplete="off" autofocus id="name" placeholder="Name" type="text">
20       <input type="submit">
21     </form>
22   </body>
23 </html>
```

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <script src="hello4.js"></script>
6      <title>hello4</title>
7    </head>
8    <body>
9      <form>
10     <input autocomplete="off" autofocus id="name" placeholder="Name" type="text">
11     <input type="submit">
12   </form>
13 </body>
14 </html>
```

```
1 document.addEventListener('DOMContentLoaded', function() {
2     document.querySelector('form').onsubmit = function() {
3         alert('hello, ' + document.querySelector('#name').value);
4         return false;
5     };
6 });
```

```
1  <!DOCTYPE html>
2
3  <html lang="en">
4    <head>
5      <script>
6
7        document.addEventListener('DOMContentLoaded', function() {
8          let input = document.querySelector('input');
9          input.onkeyup = function() {
10             let p = document.querySelector('p');
11             if (input.value) {
12               p.innerHTML = 'hello, ' + input.value;
13             }
14             else {
15               p.innerHTML = 'hello, whoever you are';
16             }
17
18           };
19         });
20
21       </script>
22       <title>hello5</title>
23     </head>
24     <body>
25       <form>
26         <input autocomplete="off" autofocus placeholder="Name" type="text">
27       </form>
28       <p></p>
29     </body>
30 </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates image -->
4
5 <html lang="en">
6   <head>
7     <title>image</title>
8   </head>
9   <body>
10    <!-- https://knowyourmeme.com/memes/grumpy-cat -->
11    
12  </body>
13 </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates link -->
4
5 <html lang="en">
6   <head>
7     <title>link</title>
8   </head>
9   <body>
10    Visit <a href="https://www.harvard.edu/">Harvard</a>.
11  </body>
12 </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates (unordered) lists -->
4
5 <html lang="en">
6   <head>
7     <title>list</title>
8   </head>
9   <body>
10    <ul>
11      <li>foo</li>
12      <li>bar</li>
13      <li>baz</li>
14    </ul>
15  </body>
16 </html>
```

```
1  <!DOCTYPE html>
2
3  <!-- Demonstrates paragraphs -->
4
5  <html lang="en">
6    <head>
7      <title>paragraphs</title>
8    </head>
9    <body>
10     <p>
11       Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam in tincidunt augue. Duis imperdiet,
12       justo ac iaculis rhoncus, erat elit dignissim mi, eu interdum velit sapien nec risus. Praesent ullamcorper nibh at
13       volutpat aliquam. Nam sed aliquam risus. Nulla rutrum nunc augue, in varius lacus commodo in. Ut tincidunt nisi a
14       convallis consequat. Fusce sed pulvinar nulla.
15     </p>
16     <p>
17       Ut tempus rutrum arcu eget condimentum. Morbi elit ipsum, gravida faucibus sodales quis, varius at
18       mi. Suspendisse id viverra lectus. Etiam dignissim interdum felis quis faucibus. Integer et vestibulum eros, non
19       malesuada felis. Pellentesque porttitor eleifend laoreet. Duis sit amet pellentesque nisi. Aenean ligula mauris,
20       volutpat sed luctus in, consectetur id turpis. Phasellus mattis dui ac metus blandit volutpat. Donec lorem arcu,
21       sollicitudin in risus a, imperdiet condimentum augue. Ut at facilisis mauris. Curabitur sagittis augue in dictum
22       gravida. Integer sed sem sed justo tempus ultrices eu non magna. Phasellus semper eros erat, a posuere nisi auctor et.
23       Praesent dignissim orci aliquam laoreet scelerisque.
24     </p>
25     <p>
26       Mauris eget erat arcu. Maecenas ac ante vel ipsum bibendum varius. Nunc tristique nulla eget
27       tincidunt molestie. Morbi sed mauris eu lectus vehicula iaculis ac id lacus. Etiam sit amet magna massa. In pulvinar
28       sapien ac mi ultrices, quis consequat nisl hendrerit. Aliquam pharetra nec sem non vehicula. In et risus leo. Ut
29       tristique ornare nisl et lacinia.
30     </p>
31   </body>
32 </html>
```

```
1  <!DOCTYPE html>
2
3  <!-- Demonstrates responsive design -->
4
5  <html lang="en">
6    <head>
7      <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
8      <title>responsive</title>
9    </head>
10   <body>
11     Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam nec porttitor tortor, bibendum cursus
libero. Vivamus at lorem odio. Aenean id pharetra arcu. Etiam leo tortor, lacinia imperdiet augue eget, varius commodo
est. Phasellus ornare elit nec ipsum sagittis molestie. Vivamus interdum aliquam pellentesque. Aenean pellentesque
ligula non elit tincidunt tincidunt. Pellentesque laoreet scelerisque est ut eleifend. Curabitur suscipit turpis quis
varius ultrices. Aliquam ultricies ante non leo dictum, vitae ultrices nulla pretium. Donec eu dolor sit amet ex
pharetra tempus. Nullam a arcu iaculis quam pharetra porttitor. Morbi nisl massa, volutpat ut nisl ut, imperdiet
congue urna. Quisque a ultricies mi. Integer malesuada sapien neque, eget porta turpis fermentum ut. Proin sit amet
metus nisi.
12     </body>
13   </html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates action -->
4
5 <html lang="en">
6   <head>
7     <title>search</title>
8   </head>
9   <body>
10    <form action="https://www.google.com/search" method="get">
11      <input name="q" type="text">
12      <input type="submit" value="Search">
13    </form>
14  </body>
15 </html>
```



```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates programmatic changes to size -->
4
5 <html lang="en">
6   <head>
7     <title>size</title>
8   </head>
9   <body>
10    <p>
11      Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam in tincidunt augue. Duis imperdiet,
12      justo ac iaculis rhoncus, erat elit dignissim mi, eu interdum velit sapien nec risus. Praesent ullamcorper nibh at
13      volutpat aliquam. Nam sed aliquam risus. Nulla rutrum nunc augue, in varius lacus commodo in. Ut tincidunt nisi a
14      convallis consequat. Fusce sed pulvinar nulla.
15    </p>
16    <select>
17      <option value="xx-large">xx-large</option>
18      <option value="x-large">x-large</option>
19      <option value="large">large</option>
20      <option selected value="initial">initial</option>
21      <option value="small">small</option>
22      <option value="x-small">x-small</option>
23      <option value="xx-small">xx-small</option>
24    </select>
25    <script>
26      document.querySelector('select').onchange = function() {
27        document.querySelector('body').style.fontSize = this.value;
28      };
29    </script>
30  </body>
31</html>
```

```
1 <!DOCTYPE html>
2
3 <!-- Demonstrates table -->
4
5 <html lang="en">
6   <head>
7     <title>table</title>
8   </head>
9   <body>
10    <table>
11      <tr>
12        <td>1</td>
13        <td>2</td>
14        <td>3</td>
15      </tr>
16      <tr>
17        <td>4</td>
18        <td>5</td>
19        <td>6</td>
20      </tr>
21      <tr>
22        <td>7</td>
23        <td>8</td>
24        <td>9</td>
25      </tr>
26      <tr>
27        <td>*</td>
28        <td>0</td>
29        <td>#</td>
30      </tr>
31    </table>
32  </body>
33 </html>
```

```
1 <!DOCTYPE html>
2
3 <html lang="en">
4   <head>
5     <meta name="viewport" content="initial-scale=1, width=device-width">
6     <title>words3</title>
7   </head>
8   <body>
9
10    <input autocomplete="off" autofocus placeholder="Query" type="text">
11
12    <ul></ul>
13
14    <script src="large.js"></script>
15    <script>
16
17      let input = document.querySelector('input');
18      input.onkeyup = function() {
19        let html = '';
20        if (input.value) {
21          for (word of WORDS) {
22            if (word.startsWith(input.value)) {
23              html += '<li>' + word + '</li>';
24            }
25          }
26        }
27        document.querySelector('ul').innerHTML = html;
28      };
29
30    </script>
31
32  </body>
33 </html>
```