

```
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  <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 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 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 <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>
```

```
1  from flask import Flask, render_template, request
2
3  app = Flask(__name__)
4
5  WORDS = []
6  with open("large", "r") as file:
7      for line in file.readlines():
8          WORDS.append(line.rstrip())
9
10 @app.route("/")
11 def index():
12     return render_template("index.html")
13
14
15 @app.route("/search")
16 def search():
17     q = request.args.get("q")
18     words = [word for word in WORDS if q and word.startswith(q)]
19     return render_template("search.html", words=words)
```

```
1 <!DOCTYPE html>
2
3 <html lang="en">
4   <head>
5     <meta name="viewport" content="initial-scale=1, width=device-width">
6     <title>words1</title>
7   </head>
8   <body>
9
10    <input autocomplete="off" autofocus placeholder="Query" type="text">
11
12    <ul></ul>
13
14    <script src="https://code.jquery.com/jquery-3.3.1.min.js"></script>
15    <script>
16
17      let input = document.querySelector('input');
18      input.onkeyup = function() {
19        $.get('/search?q=' + input.value, function(data) {
20          document.querySelector('ul').innerHTML = data;
21        });
22      };
23
24    </script>
25
26  </body>
27 </html>
```

```
1 {% for word in words %}
2     <li>{{ word }}</li>
3 {% endfor %}
```



```
1  from flask import Flask, jsonify, render_template, request
2
3  app = Flask(__name__)
4
5  WORDS = []
6  with open("large", "r") as file:
7      for line in file.readlines():
8          WORDS.append(line.rstrip())
9
10 @app.route("/")
11 def index():
12     return render_template("index.html")
13
14
15 @app.route("/search")
16 def search():
17     q = request.args.get("q")
18     words = [word for word in WORDS if q and word.startswith(q)]
19     return jsonify(words)
```

```
1 <!DOCTYPE html>
2
3 <html lang="en">
4   <head>
5     <meta name="viewport" content="initial-scale=1, width=device-width">
6     <title>words2</title>
7   </head>
8   <body>
9
10    <input autocomplete="off" autofocus placeholder="Query" type="text">
11
12    <ul></ul>
13
14    <script src="https://code.jquery.com/jquery-3.3.1.min.js"></script>
15    <script>
16
17      let input = document.querySelector('input');
18      input.onkeyup = function() {
19        $.get('/search?q=' + input.value, function(data) {
20          let html = '';
21          for (word of data) {
22            html += '<li>' + word + '</li>';
23          }
24          document.querySelector('ul').innerHTML = html;
25        });
26      };
27
28    </script>
29
30  </body>
31 </html>
```