Using Javascript with

Form element, controls, and inputs

- <form> (HTMLFormElement)
- <label>
- <input type="...">
- <textarea>
- <select> and <option>
- <button>

```
<form method="post" action="/" id="login-form">
  <div class="input-field">
    <label for="email-input">Email</label>
    <input
      type="email"
      name="email-input"
      id="email-input"
      placeholder="example@domain.com"
      required
    />
  </div>
  <div class="input-field">
    <label for="password-input">Password</label>
    <input
      type="password"
      name="password-input"
      id="password-input"
      required
    />
 </div>
  <div class="input-field">
    <input type="submit" value="Log In" />
 </div>
</form>
```

input types

- text: the one you use everywhere
- checkbox: a checkbox
- hidden: holds data, doesn't appear
- password: doesn't show the input
- radio: allows a single value to be selected out of multiple choices
- submit: button that submits the form
- reset: button that clears the form
- button: a button with no default behavior (you probably want a <button> element instead)

input types, bonus round

- color
- date
- datetime-local
- email
- number
- tel
- time
- url

Form Events

- focus: element gained focus
- blur: element lost focus
- input: element's value changed
- change: "a change to the element's value is committed by the user," usually after losing focus
- submit: submit button was pressed
- reset: reset button was pressed

Events

- event.target
- event.preventDefault()

DOM Manipulation, revisited

- createElement
- appendChild
- setAttribute
- getAttribute
- removeAttribute

Form Validation

Validation refers to the process of checking to make sure that data entered by a user is present and correct before it is used programmatically or stored somewhere.

We can validate data on the client-side AND/OR on the server-side (usually both).

If data is invalid, we want to know so that we can do something, like generate an error that alerts the user (or not do something! We wouldn't want to save faulty data to a database).