Lesson | Thursday

Introduction to Programming (/introduction-to-programming) / JavaScript and Web Browsers (/introduction-to-programming/javascript-and-web-browsers)

/ Form Input Types

Text

Cheat sheet

Tips

Marking your HTML input field as number, date, or tel, doesn't mean it will automatically be a JavaScript number type.
 type="number" just means that the form field will only accept number values. But when you access the .value property to get the input value, it will still come in as a JavaScript string, not a number.

Resources

- S MDN Reference Page on the HTML <input> element (https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input#input_types)
- S An Article on Using HTML5 Input Types (https://developer.mozilla.org/en-US/docs/Learn/Forms/HTML5_input_types)

• S Bootstrap's Styling Documentation for Forms (https://getbootstrap.com/docs/5.2/components/forms/)

Code Examples

Select Boxes

```
✓ Coffee
Tea
Kombucha
Water
```

HTML

We can optionally set a value attribute to give our <option> a
 different value that the text. For example, the option for
 "Water" will now have a value of the string "4".

JavaScript

```
function handleSelect(event) {
    event.preventDefault();
    const selection = document.getElementById("beverage").val
ue;
}

window.addEventListener("load", function() {
    document.getElementById("select-form").addEventListener
("submit", handleSelect);
});
```

Radio Buttons

- Chocolate
- Vanilla
- Cookies & Cream

HTML

```
<form id="radio-form">
  <label>
    <input type="radio" name="flavor" value="chocolate" che</pre>
cked>
    Chocolate
  </label><br />
  <label>
    <input type="radio" name="flavor" value="vanilla">
    Vanilla
  </label><br />
  <label>
    <input type="radio" name="flavor" value="cookies and cr</pre>
eam">
    Cookies & Cream
  </label><br />
  <button type="submit">Submit Selection</button>
</form>
```

Or, not nesting the <input> elements and appropriately using for and id attributes:

- checked is used to check a radio button by default.
- Including the same name attribute and value on every radio button input is crucial to the function of this form type. The

3/29/23, 12:09 AM Form Input Types

name attribute groups all of the radio buttons together in order to ensure that only one radio button is selected at a time.

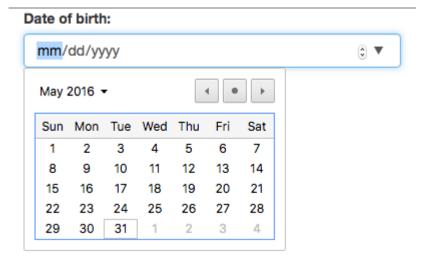
JavaScript

```
function handleRadio(event) {
    event.preventDefault();
    const radioSelection = document.querySelector("input[name
='flavor']:checked").value;
}
window.addEventListener("load", function() {
    document.getElementById("radio-form").addEventListener("s
    ubmit", handleRadio);
});
```

"input[name='flavor']:checked" is a newer, more complicated query selector. Let's break this down:

- input targets any inputs in the DOM
- [name='flavor'] tells the querySelector method to look only at elements with a name attribute set to 'flavor'. This ensures that we're looking at all of our radio button inputs, which all share the same name attribute and value.
- :checked makes sure that we grab the value of only the radio input that is checked.

Date Picker



HTML

```
<label for="born">Date of birth:</label>
<input id="born" type="date">
```

JavaScript

```
const dob = document.getElementById("born").value;
```

Color Picker

HTML

```
<label for="color">What is your favorite color?</label>
<input id="color" type="color">
```

JavaScript

const favoriteColor = document.getElementById("color").valu
e;

Button Types — A Review

The type attribute that we set for a <button> element will change how we can use it in our HTML.

<button type="submit">Submit Form</button>

A button with a type attribute set to "submit" is meant to be used in form elements and causes a submission event on a form. The default reaction to a submission event is to refresh the page.

<button type="button">Show More Information</putton>

A button with a type attribute set to "button" makes the button element have no default behavior and do nothing when pressed by default. If we are targeting a submit event with an event listener and we use type="button" on our form's button, our code will break. This is because we can target a click event on a button with type="button", but not a form submission event, so we cannot use type="button" in a button within an HTML form. Using type="button" on a button element is great for showing/hiding elements, or changing styles.

<button>Click Me</button>

What about a <button> element with no type attribute specified? This comes down to context. When unspecified, the default type attribute value for buttons type="submit". So, if the button is used in a form without a type attribute, we can still target and respond to a submission event. If a button is used outside of a form, we can also target and respond to a click event.

Previous (/introduction-to-programming/javascript-and-web-browsers/understanding-web-apis-event-handling)
Next (/introduction-to-programming/javascript-and-web-browsers/calculator-with-forms-and-branching)

Lesson 68 of 75 Last updated March 24, 2023

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