FORMS

Without using JS, there are two basic forms of interaction on the web:

- Following links (tags)
- Submitting data via forms

Let's look at that second case

BASIC HTML TAGS FOR FORMS

THE FORM TAG

```
<form action="SOME_URL" method="GET">...</form>
```

- action of a form is the url to submit to.
 - fully qualified or a relative or absolute path
 - No url means same page
- method is normally GET or POST
 - We'll cover these when we get to HTTP methods
 - GET will send query params in url
 - POST will send params in body of request, not in URL

SUBMITTING

- <button type="submit">...</button>
- | <input type="submit">...</input>|
- On most browsers: If no submit button defined, use first button
 - Don't Rely On This

The data from the form is submitted to the action url.

The name props of the fields will be the keys

• spaces become + or %20. Special characters will be encoded in hex with % (like %20 being a space)

PASSWORD FIELDS

Password fields are NOT secure - they visually hide the text on display, but transmit the data in the clear.

CHECKBOXES

- Send a value of "on" if checked (by default)
- Will not send a value, or even a field name, if not checked

RADIO BUTTONS

- Only one of the same name can be selected at a time
- Will send the value of the selected one as the value of the name/value pair
- Will not send any value (or even the name) if none of the radio buttons of the name are selected

SELECT (DROPDOWN)

- Shows the CONTENT of the option tag on screen
- Sends the VALUE of the option tag
- value defaults to content
 - Don't do this always set a value
 - Separate the appearance from the data
 - You can change the appearance/wording without breaking your data
- Defaults to first option unless one has selected

LABEL

tags allow you to "click" the label as selecting the element

Adds semantic value (connects label to a related field)

label tags auto connect to a child input element

- You can connect them when separate, but requires an id of the element to connect them to
 - You often don't want to have many ids

SUMMARY - FORMS

- Direct web navigation is through **links** or **forms**
- Forms send a request to a specified url
 - Full url, Absolute path, or Relative path
 - Sent as GET or POST HTTP requests
 - Browser renders the page in the response
- Data for **GET** is sent in url
 - Data is url-encoded to remove most special characters or spaces
- Data for **POST** is sent in the body

SUMMARY - FORM HTML

- HTML describes the input fields for a form
 - name is the data field name attribute
 - value is the data field value attribute
- <label> tags can wrap their related content
 - or use the for attribute along with the id of the related tag
- Use CSS to ensure layout/appearance
 - browsers can be inconsistent
- Typing on the form is all IN THE BROWSER
 - Server only knows anything when you submit