SUBJECT: Submitting a Form DATE:
The submit event
· triggers when a form is submitted
· can be submitted in 2 ways:
1. clicking <input type="submit"/> or
<pre><input type="image"/></pre>
2. pressing Enter on an input field
• Average as a local Dock and the control of the co
* Event-prevent Default () may cancel a form
submit event if there are errors on the form
Example using both  1 <form onsubmit="alert('submit!');return false">     First: Enter in the input field <input type="text" value="text"/></form>
Methods Too form will 3 Second: Click "submit": <input type="submit" value="Submit"/>
not be sent lue to
First: Enter in the input field text  Second: Click "submit": Submit
• A click event is still triggered  2 <form onsubmit="return false"></form>
When a form is sent by pressing 4
the enter Key.  Focus here and press enter Submit

## SUBJECT: Submitting a Form

## DATE:

### Calling form. Submit ()

- · submits a form to the server mandally
- · the submit event is not generated

```
1 let form = document.createElement('form');
2 form.action = 'https://google.com/search';
3 form.method = 'GET';
4
5 form.innerHTML = '<input name="q" value="test">';
6
7 // the form must be in the document to submit it document.body.append(form);
9
10 form.submit();
```

#### SUBJECT: FormData Sending HTML Forms using Form Data · Form Data is an object to represent HTML form data 1 let formData = new FormData([form]); → if a form is provided, the constructor automatically captures its fields > network methods (i.e. fetch) can accept a FormData obj. as a body · sent out with Content-Type: multipart/form-data 1 <form id="formElem"> <input type="text" name="name" value="John"> Example sending a <input type="text" name="surname" value="Smith"> <input type="submit"> simple form -7 <script> formElem.onsubmit = async (e) => { e.preventDefault(); 11 let response = await fetch('/article/formdata/post/user', { body: new FormData(formElem) let result = await response.json(); alert(result.message); 19 20 </script> Smith Submit \* the server code (not shown) accepts the POST request & replies "User Saved"

SUBJECT: FormData Methods DATE:
Can modify fields in FormData w/these methods:
,
formData.append (name, value)
·adds a form field w/given name + value
· can append multiple same-named fields
·adds a field w/given name as if it were
<input type="file"/>
> form Data. Set (name, value)
· both set methods remove all fields w/given
Name, so make sure there aren't multiple
fields w/the same name
formData. delete (name)
· removes field w/given name
→ formData.get(name)
· get the value of the field w/given name
→ form Data.has (name)
·returns true if there is a field wygiven name

# SUBJECT: Sending Forms

### DATE:

```
• Can iterate over

FormData Using

for... of loop

6 for(1
7 ale
```

```
let formData = new FormData();
formData.append('key1', 'value1');
formData.append('key2', 'value2');

// List key/value pairs
for(let [name, value] of formData) {
   alert(`${name} = ${value}`); // key1 = value1, then key2 = value2
}
```

### Sending a Form w/a File

· always sent as Content-Type: multipart/form-data

→ this encoding also allows <input type = "file" > fields to be sent

```
1 <form id="formElem">
      <input type="text" name="firstName" value="John">
      Picture: <input type="file" name="picture" accept="image/*">
 4 <input type="submit">
 7 <script>
     formElem.onsubmit = async (e) => {
       e.preventDefault();
 10
 11 let response = await fetch('/article/formdata/post/user-avatar', {
 12
       method: 'POST',
 13
         body: new FormData(formElem)
 15
       let result = await response.json();
16
 18
        alert(result.message);
19
     };
 20 </script>
               Picture: Choose File No file chosen
                                                  Submit
John
```

#### SUBJECT: Sending Forms Sending a form with Blob data · dynamically-generated binary data (i.e. images) can be sent as a blob ightarrow blobs can be supplied via the fetch parameter body · 15 often more convenient to send images as part of a form, not separately -> handling multipart-encoded forms is also easier on the Server <canvas id="canvasElem" width="100" height="80" style="border:1px solid"></canvas> <input type="button" value="Submit" onclick="submit()"> canvasElem.onmousemove = function(e) { let ctx = canvasElem.getContext('2d'); ctx.lineTo(e.clientX, e.clientY); ctx.stroke(); async function submit() { let imageBlob = await new Promise(resolve => canvasElem.toBlob(resolve, 'image/png')); let formData = new FormData(); formData.append("firstName", "John"); The image blob is formData.append("image", imageBlob, "image.png"); let response = await fetch('/article/formdata/post/image-form', { added as if there method: 'POST', body: formData Were. let result = await response.json(); <input type = "file" name = "image" > alert(result.message); </script> ... the server will read it /body> as if it were a regular form Submission Submit

JECT: Summary	DATE:
Summary	
FormData objects are used to capture HTML form and submit it	using fetch or another network method.
We can either create new FormData(form) from an HTML form	n, or create an object without a form at all, and
then append fields with methods:	
<ul><li>formData.append(name, value)</li><li>formData.append(name, blob, fileName)</li></ul>	
formData.set(name, value)	
formData.set(name, blob, fileName)	
Let's note two peculiarities here:	
<ol> <li>The set method removes fields with the same name, appen them.</li> </ol>	d doesn't. That's the only difference between
2. To send a file, 3-argument syntax is needed, the last argumen	nt is a file name, that normally is taken from
user filesystem for <input type="file"/> .	
Other methods are:	
<ul><li>formData.delete(name)</li><li>formData.get(name)</li></ul>	
• formData.has(name)	