

FEWD WEEK 9 • CLASS 15:

Forms

<https://slides.com/jennifermeade/fewd-9-15/live>



QUICK REVIEW

FILL IN THE BLANKS

```
var germanCars = [  
  { make: 'Mercedes Benz', model: 'GL450', year: 2007 },  
  { make: 'Porsche', model: 'Panamera', year: 2010 },  
  { make: 'BMW', model: 'X5', year: 2018 },  
  { make: 'Audi', model: 'A6', year: 2016 }  
]  
for(car of germanCars) {  
  template = `YR: /* year */ MK: /* make */ MODEL: /* model */`;   
  console.log(template)  
}
```

FILL IN THE BLANKS

```
<div id="image-grid"></div>
```

```
var imgData = [  
  {url: 'dogs.png', title: 'Cute dogs'},  
  {url: 'cats.png', title: 'Cute cats'},  
  {url: 'horse.jpg', title: 'Cute horses'},  
  {url: 'rabbits.jpg', title: 'Cute rabbits'}  
]  
for(/* what goes here */ of imgData) {  
  $(/* what goes here */  
    .append('&lt;img src=/* what goes here */ alt=/* and here */>`);  
}
```

FILL IN THE BLANKS

```
<div id="shopping-list">  
  <ol></ol>  
</div>
```

```
const list = ['Wine', 'Dog Treats', 'Shampoo', 'Conditioner'];  
let html = '';  
  
for(/* what goes here */) {  
  /* what goes here */  
  `<li>/* what goes here */ <button>Edit</button></li>`;  
}  
  
$('#shopping-list>ol')./* what goes here */(html);
```

FILL IN THE BLANKS

```
.done {  
  text-decoration: line-through;  
}
```

```
<ol>  
  <li>Finish final project</li>  
  <li>Celebrate too much</li>  
  <li>Regret celebrating too much the next day</li>  
</ol>
```

```
$(/* what goes here */).click(function(){  
  $(this)./* what goes here */  
});
```

OBJECTIVES

- HTML form elements
- The contenteditable attribute
- HTML5 Validation
- Javascript & Forms 🧐

FORM ELEMENTS

THE FORM ELEMENT

The form element has special powers. Any button inside it when clicked causes it to submit!

```
<form>
  /* form fields and labels go here */
  <button>Submit Me!</button>
</form>
```

INPUT ELEMENTS

```
<!-- No ending tag -->  
<input type="text" name="modelname">
```

Input Types:

- | | | | |
|------------|----------|-------|----------------|
| • text | checkbox | color | time |
| • password | button | date | url |
| • submit | number | month | week |
| • reset | email | range | datetime-local |
| • radio | search | tel | |

INPUT ATTRIBUTES

```
<!-- required here is the same as required="true" -->  
<input type="text" name="modelname" value="" required>
```

Attributes:

- name
- value
- readonly
- disabled
- maxlength
- placeholder: text displayed before focus
- required: form doesn't submit if empty
- autocomplete: browser may autocomplete
- autofocus: field is focused on page load
- form: form name the element belongs to
- pattern: a regular expression to match input
- novalidate: don't use browser validation

RADIO BUTTONS

```
<label><input type="radio" name="crust" value="reg" checked> Regular</label>  
<label><input type="radio" name="crust" value="dd"> Sicilian</label>  
<label><input type="radio" name="crust" value="thin"> Thin</label>
```

- Radio buttons are mutually exclusive options
- The name attribute tells the browser which elements are part of the same group.
- The value is what is returned when the element is checked



Wrap radio buttons in <label> tags. The labels are clickable, the cursor changes to an arrow, and the text is easier to style!

CHECKBOXES

```
<label><input type="checkbox" name="delivery"> Delivery?</label>
```

- Checkboxes are binary.
- Checkboxes can use a value, but it will return that value in Javascript whether the element is checked or not.



Wrap checkboxes in <label> tags. The labels are clickable, the cursor changes to an arrow, and the text is easier to style!

SELECT ELEMENT

```
<select name="text">
  <option disabled selected value="">Select A Value</option>
  <option value="value1">Value 1</option>
  <option value="value2">Value 2</option>
  <option value="value3">Value 3</option>
</select>
```

- The value of the option **does not** need to match the value of the text that is displayed.
- Use the selected and disabled attribute to show an initial value.
- Use the multiple attribute to make the select allow multiple options to be selected.

RANGE ELEMENT

```
<input type="range" name="age" value="25" min="25" max="50" step="5">
```



- The **min** attribute is the starting value
- The **max** attribute is the ending value
- The **value** is the starting position and what is returned
- Value can be fluid (in integers) or "stepped" using the **step** attribute

TEXTAREA ELEMENT

```
<textarea rows="4" cols="50">Hey there!</textarea>
```

- The cols attribute is the visible width of the text control, in **average character widths**. If it is specified, it must be a positive integer. If it is not specified, the default value is 20.
- The rows attribute is the number of **visible text lines** for the control.
- Textarea element values retain any whitespace (spacing and returns) .

PSEUDO CLASSES

```
input[name="crust"]:checked {  
    /* styles only the selected radio or checkbox */  
}
```

```
$( 'input[name="crust"]:checked' ).val();  
  
// Gets the value of the selected radio button
```

<https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-classes>

JQUERY AND FORMS

- If using the form element you can listen for the **submit** event, but don't forget to cancel the event using `event.preventDefault()`.
- To get the value of an element, use the `.val()` method.
- The exception is a checkbox: The `.val()` method it will be undefined if not checked. Use the `.is(':checked')` method to return true or false.

TRY IT!

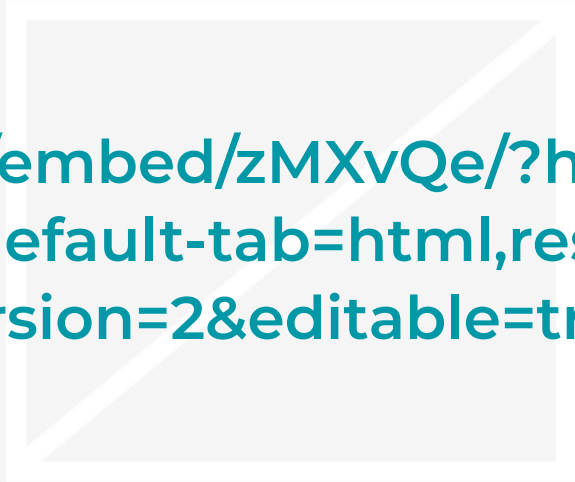
```
<form>
  <label>Name: </label>
  <input type="text" name="name" id="name" value="" required>

  <br>
  <button>Submit</button>
</form>
```

```
$( 'form' ).submit(function(e){
  e.preventDefault();
  let name = $( '#name' ).val()

  console.log(name);
})
```


FORM BASICS



[//codepen.io/jme11/embed/zMXvQe/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true](https://codepen.io/jme11/embed/zMXvQe/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true)

<https://codepen.io/jme11/pen/zMXvQe>

SPEECH SYNTHESIS



[//codepen.io/jme11/embed/GBXWLJ/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true](https://codepen.io/jme11/embed/GBXWLJ/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true)

<https://codepen.io/jme11/pen/GBXWLJ>

SPEECH SYNTHESIS SOLUTION



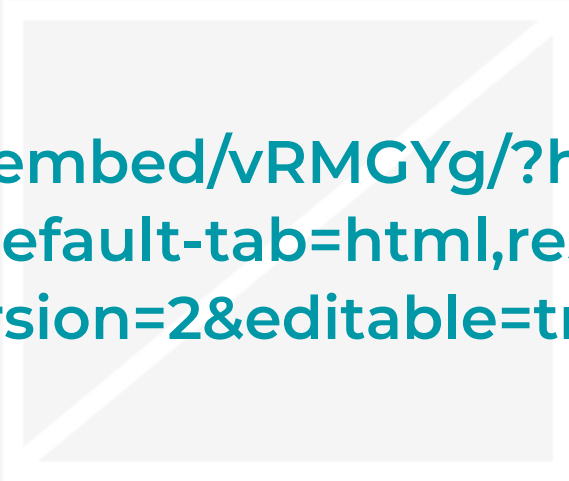
```
$('#button').click(function(){ //listen for clicks on the button

    // TERNARY OPERATOR: condition-to-check ? value-if-true : value-if-false;
    // If the value of the input is not empty (which is falsy),
    // set the variable to the value of the input, otherwise
    // set the text variable to the noInputMsg variable
    let text = $('#input').val() ? $('#input').val() : noInputMsg;

    // Use the say function and give it the text in our text variable
    say(text);

});
```

TEMPERATURE CONVERTER



[//codepen.io/jme11/embed/vRMGYg/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true](https://codepen.io/jme11/embed/vRMGYg/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true)

<https://codepen.io/jme11/pen/vRMGYg>

TEMP CONVERTER SOLUTION

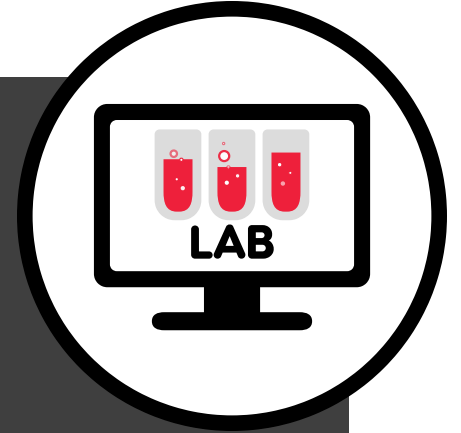
```
$('#button').click(function(){ //listen for clicks on the button

    // Store the value of the input with
    // the id of celsius in the val variable
    let val = $('#celsius').val();

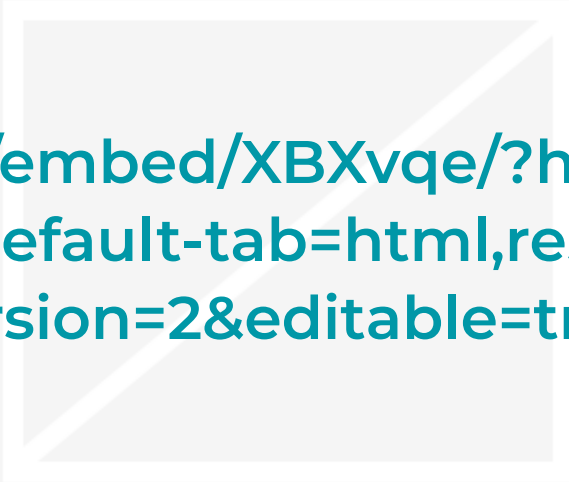
    // Store the result of passing the val variable
    // to the converter function
    let converted = converter(val);

    // Update the div with the id of output with the result
    $('#output').text(converted + '°F');

});
```



SHOW PASSWORD



[//codepen.io/jme11/embed/XBXvqe/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true](https://codepen.io/jme11/embed/XBXvqe/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true)

<https://codepen.io/jme11/pen/XBXvqe>

PANELISTS SOLUTION



```
// listen for a change on the #show-password element
$('#show-password').change(function(){

    // The 'is' method returns true or false.
    // Set the displayPassword variable to true if
    // the #show-password checkbox is checked
    // and false if it is not checked.
    let displayPassword = $(this).is(':checked');

    // If the displayPassword variable is true...
    if(displayPassword) {

        // Set the type attribute on the #password input to text
        $('#password').attr('type','text');

    } else {    // otherwise...

        // Set the type attribute on the #password input to password
        $('#password').attr('type','password');
    }
});
```

**CONTENTEDITABLE
ATTRIBUTE**

CONTENTEDITABLE ATTRIBUTE

```
<!-- Not a form element -->
```

```
<div contenteditable="true">Any text here can be edited!</div>
```

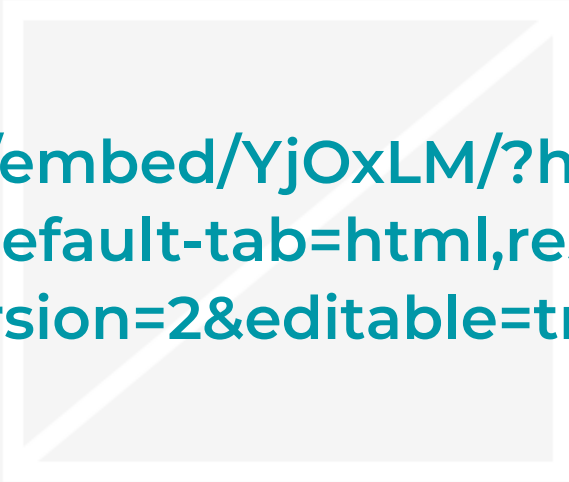
The contenteditable attribute can be added to any element that contains text!

GET ITS VALUE?

```
$( 'div' ).on( 'input', function(){  
    console.log( $(this).text() );  
});
```

- We already know how to do this with the `.text()` method!
- Listen for the input event here.
- We can listen for **any** kind of Javascript event using the jQuery `.on()` method. With this method, the first parameter is the event name.

CONTENTEDITABLE



[//codepen.io/jme11/embed/YjOxLM/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true](https://codepen.io/jme11/embed/YjOxLM/?height=265&theme-id=default&default-tab=html,result&embed-version=2&editable=true)

<https://codepen.io/jme11/pen/YjOxLM>

CONTENTEDITABLE SOLUTION

```
// listen for clicks on the button
$('button').click(function(){

    // Use the text method to get the
    // text inside the paragraph and
    // store it in the text variable.
    let text = $('p').text();

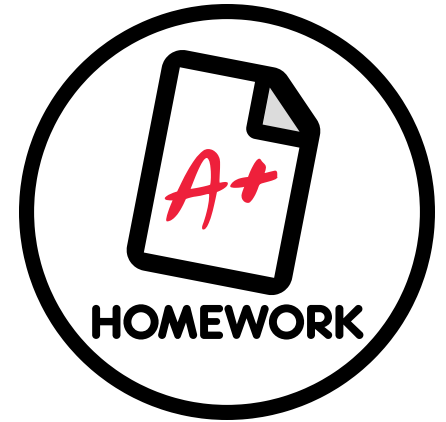
    // Log the value of the text variable
    console.log(text)

});
```



HOMEWORK

- There are two weeks to finish the Javascript for your final projects
- Make an appointment with me to review your project and course progress
 - Tues-Thurs: Day by Skype or on campus



EXIT SURVEY

<https://goo.gl/EB4XFw>

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**GO BUILD
AWESOME THINGS!**