



Video 2.11

Chris Murphy

Review

- Previously we saw how to use jQuery to retrieve and modify DOM elements and add event listeners
- What other types of events can we handle?

User Events in the Browser

Event Type	Events
Mouse	click, dblclick, mousedown, mouseup, mouseover, mouseout

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Mouse	click, dblclick, mousedown, mouseup, mouseover, mouseout
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Event Type	Events
Mouse	click, dblclick, mousedown, mouseup, mouseover, mouseout
Keyboard	keydown, keypress, keyup
Form	focus, blur, change, reset, submit
Window / Element	load, resize, scroll, unload

☐ Dog ☐ Cat ☐ Bird

☐ Happy ☐ Cute ☐ Smart

I'd like to buy a new animal.

Male

☐ Dog ☐ Cat ☒ Bird

☐ Happy ☐ Cute ☐ Smart

I'd like to buy a new bird.

Male

☐ Dog ☒ Cat ☐ Bird

☐ Happy ☐ Cute ☐ Smart

I'd like to buy a new cat.

✓ Male
Female

☐ Dog ☒ Cat ☐ Bird

☐ Happy ☐ Cute ☐ Smart

I'd like to buy a new cat.

☐ Dog ☒ Cat ☐ Bird

☐ Happy ☐ Cute ☐ Smart

I'd like to buy a new female cat.

Female ▴ ▾

☐ Dog ☒ Cat ☐ Bird

☒ Happy ☐ Cute ☐ Smart

I'd like to buy a new happy female cat.

Female ▴ ▾

☐ Dog ☒ Cat ☐ Bird

☒ Happy ☐ Cute ☒ Smart

I'd like to buy a new happy, smart female cat.

Female ▾

☐ Dog ☒ Cat ☐ Bird

☒ Happy ☒ Cute ☒ Smart

I'd like to buy a new happy, smart, cute female cat.

Female ▴ ▾

☐ Dog ☒ Cat ☐ Bird

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I'd like to buy a new happy, cute female cat.

```
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    $("input:radio[name='species']").change(function() {
        if ($(this).prop('checked')) {
            $('#speciesSpan').html($(this).val());
        }
    });

```

```

<select name="choose">
    . . .
</select>
<p>
<input type="radio" name="species" value="dog">Dog</input>
<input type="radio" name="species" value="cat">Cat</input>
<input type="radio" name="species" value="bird">Bird</input>

. . .

<p>
I'd like to buy a new <span id="featureSpan"></span>
<span id="genderSpan"></span> <span id="speciesSpan">animal</span>.

<script>

    // handling select box
    $("select[name='choose']").change(function() {
        $('#genderSpan').html($(this).val());
    });

    // handling radio buttons
    $("input:radio[name='species']").change(function() {
        if ($(this).prop('checked')) {
            $('#speciesSpan').html($(this).val());
        }
    });

```

```

<select name="choose">
    . . .
</select>
<p>
<input type="radio" name="species" value="dog">Dog</input>
<input type="radio" name="species" value="cat">Cat</input>
<input type="radio" name="species" value="bird">Bird</input>

. . .

<p>
I'd like to buy a new <span id="featureSpan"></span>
<span id="genderSpan"></span> <span id="speciesSpan">animal</span>.

<script>

    // handling select box
    $("select[name='choose']").change(function() {
        $('#genderSpan').html($(this).val());
    });

    // handling radio buttons
    $("input:radio[name='species']").change(function() {
        if ($(this).prop('checked')) {
            $('#speciesSpan').html($(this).val());
        }
    });

```

```

<select name="choose">
    . . .
</select>
<p>
<input type="radio" name="species" value="dog">Dog</input>
<input type="radio" name="species" value="cat">Cat</input>
<input type="radio" name="species" value="bird">Bird</input>

. . .

<p>
I'd like to buy a new <span id="featureSpan"></span>
<span id="genderSpan"></span> <span id="speciesSpan">animal</span>.

<script>

    // handling select box
    $("select[name='choose']").change(function() {
        $('#genderSpan').html($(this).val());
    });

    // handling radio buttons
    $("input:radio[name='species']").change(function() {
        if ($(this).prop('checked')) {
            $('#speciesSpan').html($(this).val());
        }
    });

```



```

<select name="choose">
    . . .
</select>
<p>
<input type="radio" name="species" value="dog">Dog</input>
<input type="radio" name="species" value="cat">Cat</input>
<input type="radio" name="species" value="bird">Bird</input>

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<p>
I'd like to buy a new <span id="featureSpan"></span>
<span id="genderSpan"></span> <span id="speciesSpan">animal</span>.

<script>

    // handling select box
    $("select[name='choose']").change(function() {
        $('#genderSpan').html($(this).val());
    });

    // handling radio buttons
    $("input:radio[name='species']").change(function() {
        if ($(this).prop('checked')) {
            $('#speciesSpan').html($(this).val());
        }
    });

```

```

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I'd like to buy a new <span id="featureSpan"></span>
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<script>
    . . .
    var allChecked = [];

    $('input:checkbox').change(function() {
        var value = $(this).val();
        if ($(this).prop('checked')) {
            allChecked.push(value);
        }
        else {
            var index = allChecked.indexOf(value);
            if (index != -1)
                allChecked.splice(index, 1);
        }
        $('#featureSpan').html('');
        for (var i = 0; i < allChecked.length; i++) {
            $('#featureSpan').append(allChecked[i]);
            if (i < allChecked.length - 1)
                $('#featureSpan').append(', ');
            else
                $('#featureSpan').append(' ');
        }
    });
</script>

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        $('#featureSpan').html('');
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            var index = allChecked.indexOf(value);
            if (index != -1)
                allChecked.splice(index, 1);
        }
        $('#featureSpan').html('');
        for (var i = 0; i < allChecked.length; i++) {
            $('#featureSpan').append(allChecked[i]);
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    . . .
    var allChecked = [];

    $('input:checkbox').change(function() {
        var value = $(this).val();
        if ($(this).prop('checked')) {
            allChecked.push(value);
        }
        else { // this element was unchecked
            var index = allChecked.indexOf(value);
            if (index != -1)
                allChecked.splice(index, 1);
        }
        $('#featureSpan').html('');
        for (var i = 0; i < allChecked.length; i++) {
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        }
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            var index = allChecked.indexOf(value);
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                allChecked.splice(index, 1);
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        $('#featureSpan').html('');
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            $('#featureSpan').append(allChecked[i]);
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                $('#featureSpan').append(', ');
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```

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```

Validate Password

Please fix the following errors:

- The password must contain a number
- The password must be at least 10 characters long

Validate Password

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- The password must be at least 10 characters long

Validate Password

The password is okay!

Validate Password


```
<head>
<script src="jquery.js"></script>

<style>

.errorText {
color: red;
}

.errorBox {
border: 2px solid red;
}

.goodBox {
border: 2px solid green;
}

</style>

</head>
```

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```
<body>

<input type="password" name="password"></input>

<br>

<span id="errorMessage" class="errorText" hidden>
    Please fix the following errors:</span>
<ul>
<li id="needsNumber" class="errorText" hidden>
    The password must contain a number</li>

<li id="atLeast10Chars" class="errorText" hidden>
    The password must be at least 10 characters long</li>
</ul>

<span id="successMessage" hidden>The password is okay!</span>

<p>

<button name="submit">Validate Password</button>
```



```
<body>
```

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<input type="password" name="password"></input>
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```
<br>
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Summary

- jQuery can be used to retrieve and modify DOM elements and add event listeners
- We have seen how to handle events from the mouse, keyboard, and forms

Review: Week 2

- **JavaScript:** a general-purpose, easy-to-use programming language
- **DOM:** representation of structure of HTML page, which can be manipulated using JavaScript
- **jQuery:** library that simplifies accessing/using the DOM