

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?



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



Event Type	Events
Mouse	click, dblclick, mousedown, mouseup, mouseover, mouseout
Keyboard	keydown,keypress,keyup

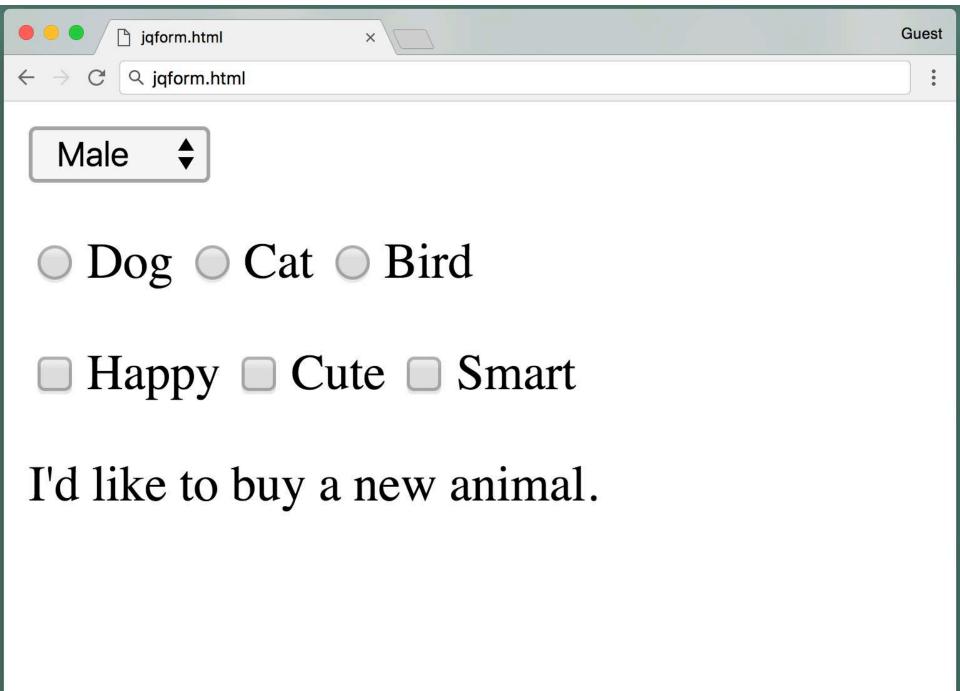


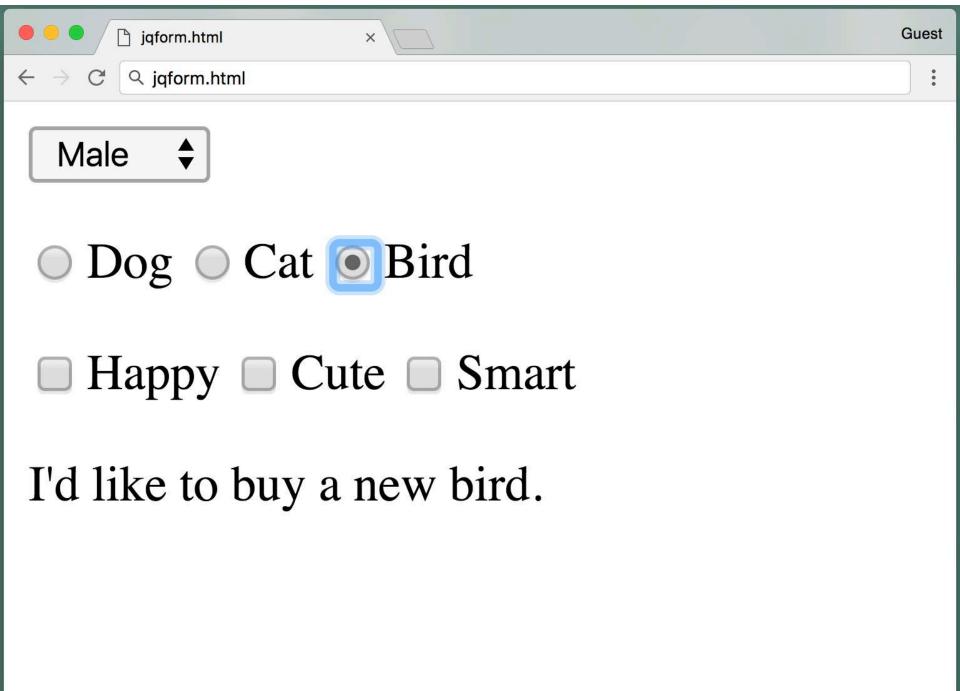
Event Type	Events
Mouse	click, dblclick, mousedown, mouseup, mouseover, mouseout
Keyboard	keydown,keypress,keyup
Form	focus, blur, change, reset, submit

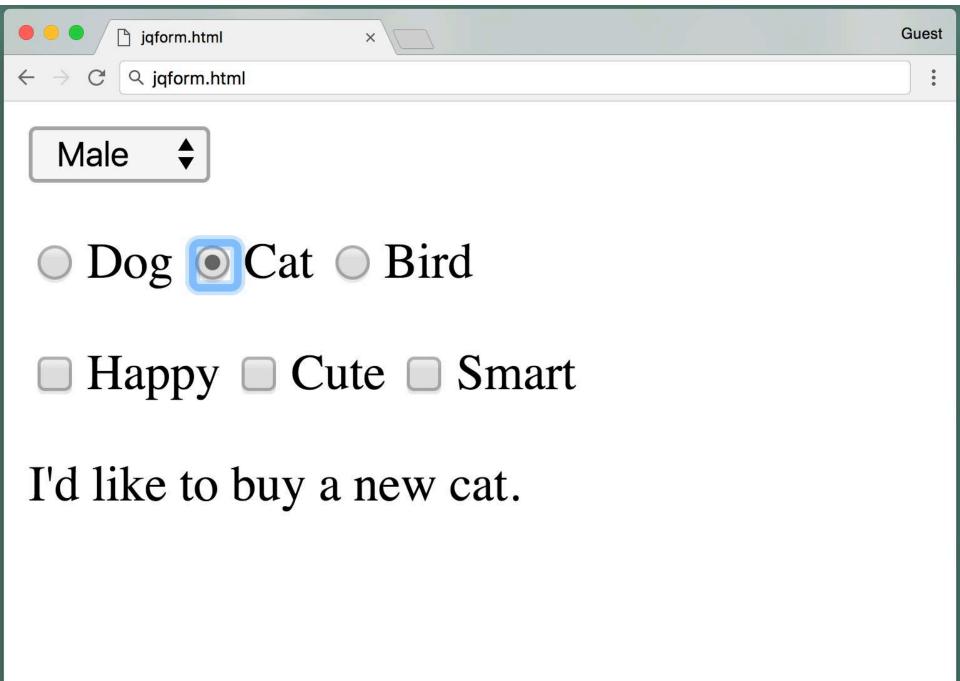


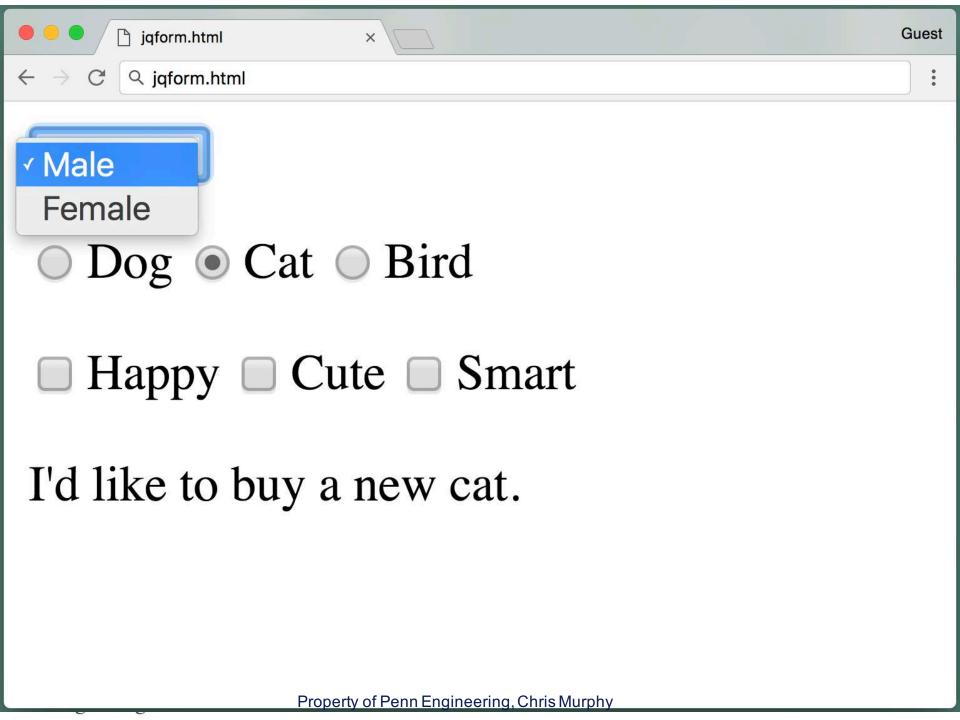
Event Type	Events
Mouse	click, dblclick, mousedown, mouseup, mouseover, mouseout
Keyboard	keydown,keypress,keyup
Form	focus, blur, change, reset, submit
Window / Element	load, resize, scroll, unload

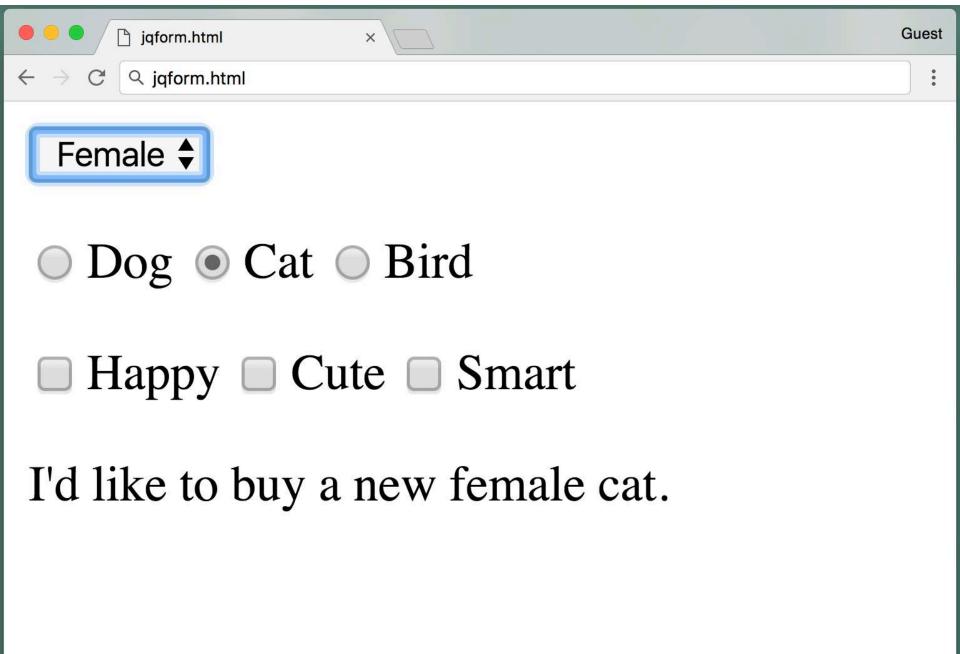


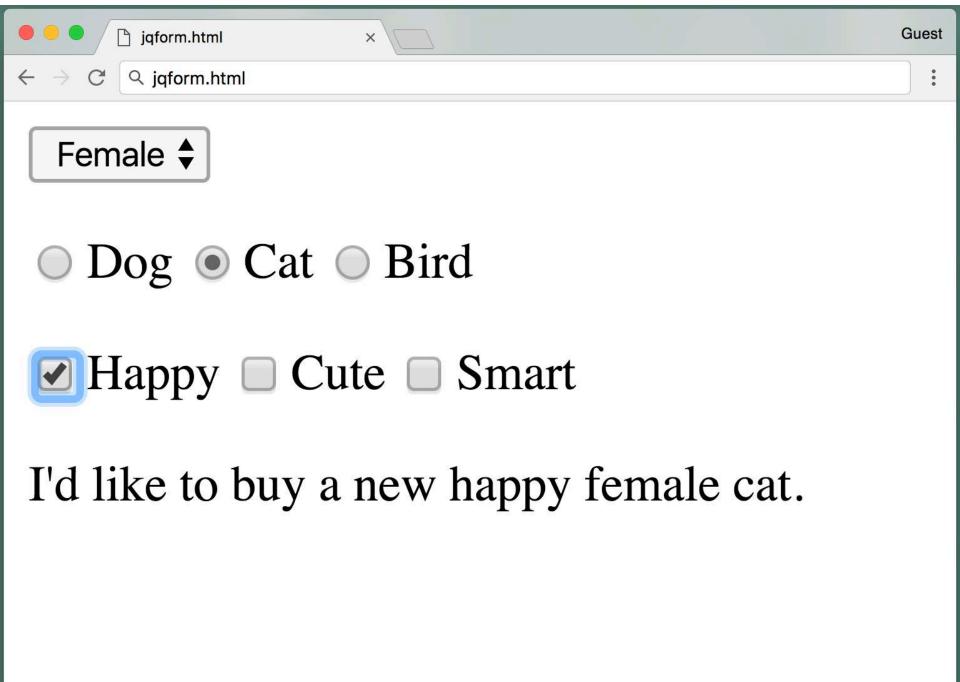


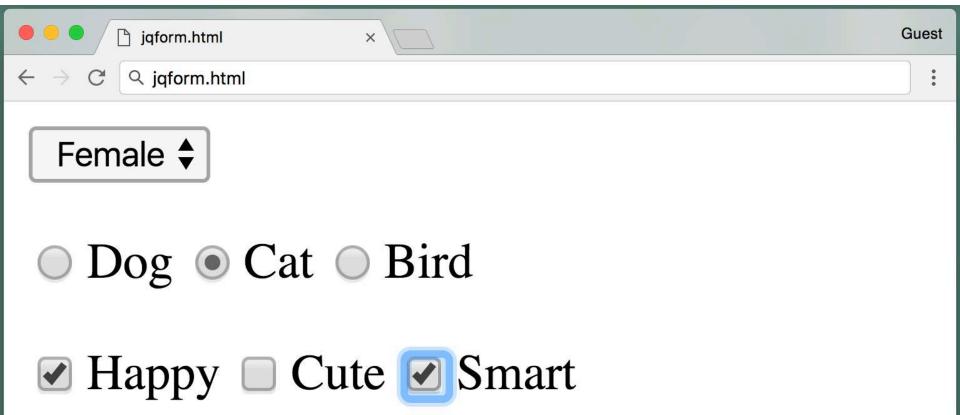




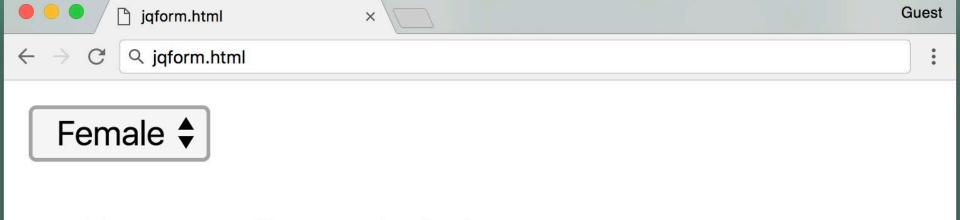








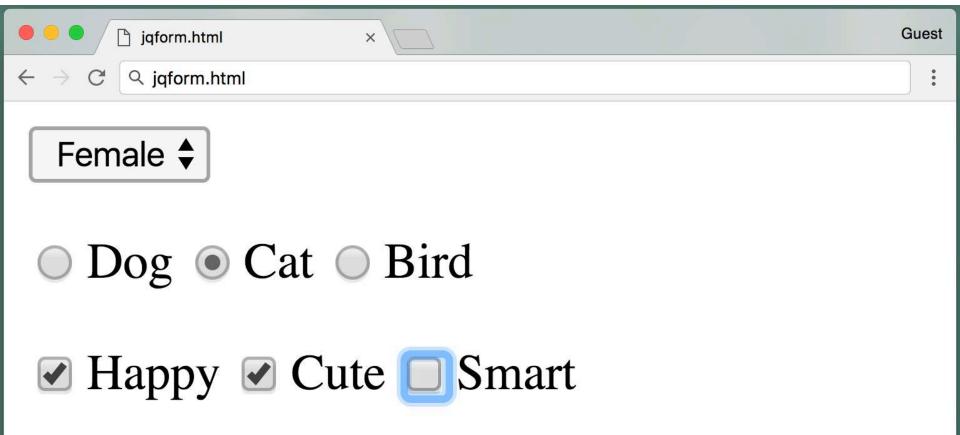
I'd like to buy a new happy, smart female cat.





DogCatBird

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



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

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</select>
>
<input type="radio" name="species" value="dog">Dog</input>
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Engineering

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```

```
<select name="choose">
</select>
>
<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>
>
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>
>
<input type="radio" name="species" value="dog">Dog</input>
<input type="radio" name="species" value="cat">Cat</input>
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    $ ("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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<select name="choose">
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<input type="radio" name="species" value="dog">Dog</input>
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    $ ("select[name='choose']").change(function() {
       $('#genderSpan').html($(this).val());
    });
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    $("input:radio[name='species']").change(function() {
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I'd like to buy a new <span id="featureSpan"></span>
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    if ($(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)
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        var index = allChecked.indexOf(value);
        if (index != -1)
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       if (i < allChecked.length - 1)
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<script>
 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++) {</pre>
       $('#featureSpan').append(allChecked[i]);
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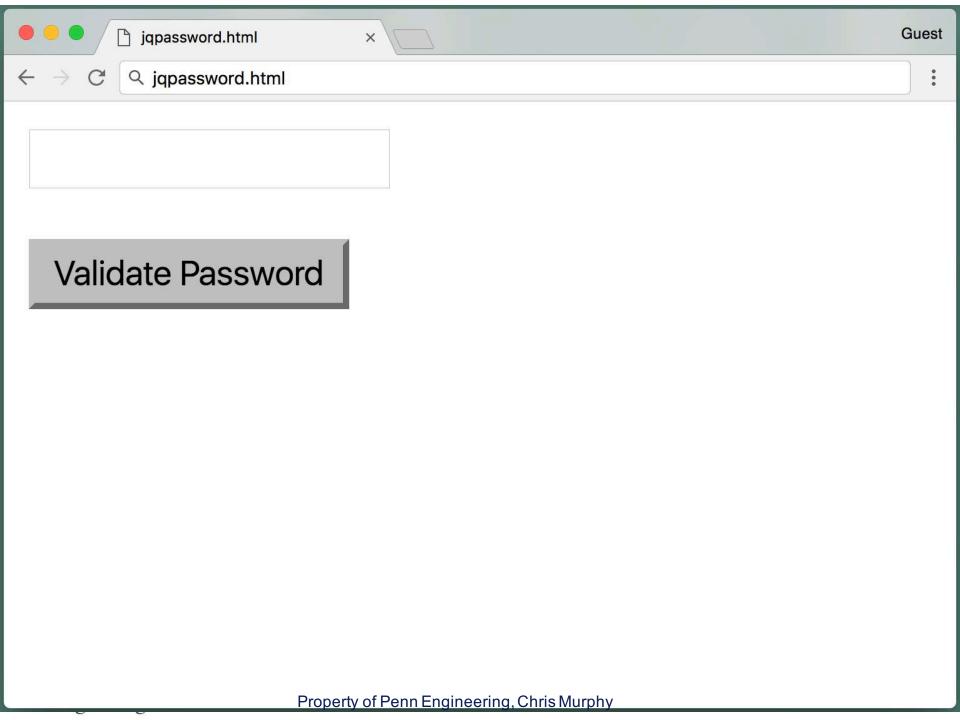
```
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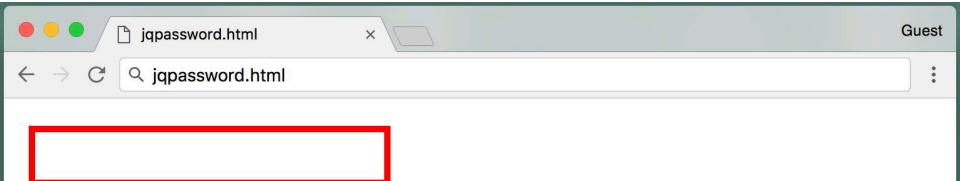
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```

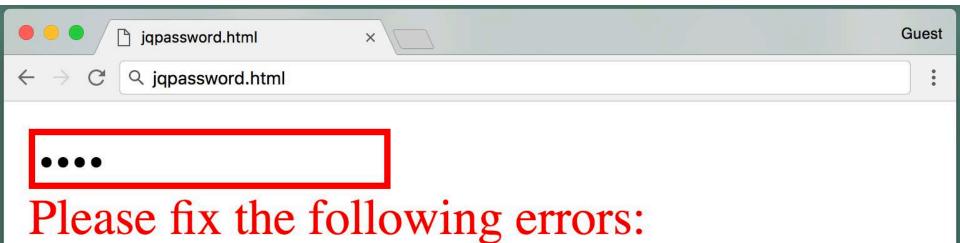




Please fix the following errors:

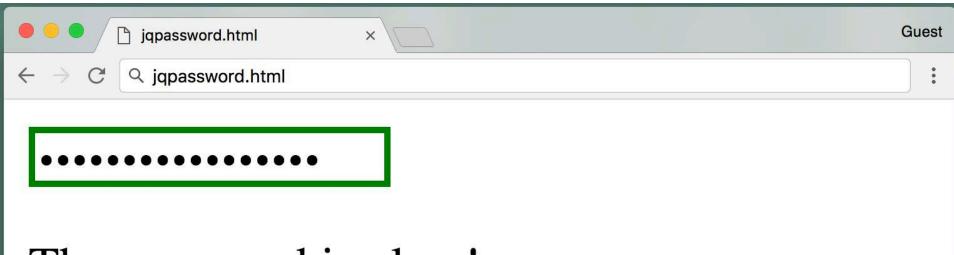
- The password must contain a number
- The passsword must be at least 10 characters long

Validate Password



• The passsword 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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660

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665

```
<body>
<input type="password" name="password"></input>
<hr>
<span id="errorMessage" class="errorText" hidden>
   Please fix the following errors:</span>
<111>
The password must contain a number 
The passsword must be at least 10 characters long
<span id="successMessage" hidden>The password is okay!</span>
>
<button name="submit">Validate Password</button>
```

```
<body>
<input type="password" name="password" ></input>
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<button name="submit">Validate Password</button>

```
<script>
$("button[name='submit']").click(function() {
  var passwordField = $("input[name='password']");
  var password = passwordField.val();
  var isOkay = true;
  if (password.length < 10) {
    isOkay = false;
     $('#atLeast10Chars').show();
  if (/\d/.test(password) == false) {
    isOkay = false;
     $('#needsNumber').show();
   if (isOkay == false) {
     $('#successMessage').hide();
     $('#errorMessage').show();
     passwordField.removeClass("goodBox").addClass("errorBox");
  else {
     $('.errorText').hide();
     $('#successMessage').show();
    passwordField.removeClass("errorBox").addClass("goodBox");
  return false;
});
</script>
```

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<script>
$("button[name='submit']").click(function() {
   var passwordField = $("input[name='password']");
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   if (password.length < 10) {
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   if (isOkay == false) {
     $('#successMessage').hide();
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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

