
 GENERAL ASSEMBLY

FRONT-END WEB DEVELOPMENT

Lesson: jQuery Events

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- **EVENTS**
 - **Mouse Events**
 - **Keyboard Events**
 - **Form Events**
 - **Timers**

- Events let us build true interaction:
- Take control of what happens when the user clicks and types.
- Make forms more awesome

TYPES OF EVENTS

- A full list of available events can be found at:
Mozilla Developer Network

There are a lot of events, for this class we will learn:

- Mouse Events
- Keyboard Events
- Timer Events

HANDLERS

- What is a handler
 - A function to execute when the event is triggered.

MOUSE EVENTS

- **click**
 - User has pressed and released the mouse button
- **mousedown**
 - Mouse button is pressed over the element
- **mouseup**
 - Mouse button is released over the element
- **mousemove**
 - user has moved the mouse over the element.

LAB TIME

coa_MouseEvents

MOUSE EVENTS SYNTAX

- `$("selector").mouseEvent(handler);`

MOUSE POSITION

- All mouse events can return the position of the mouse where the handler was triggered.
 - `event.pageX`
 - `event.pageY`

PREVENTING DEFAULT EVENT BEHAVIOR

```
$("#body").click(function(event) {  
    event.preventDefault();  
});
```

.ON LET'S YOU DO MULTIPLE AT ONCE

```
$("#body").on("mousedown mouseup", function(event) {  
    var x = event.pageX;  
    var y = event.pageY;  
    console.log("Mouse at", x, y);  
});
```

FORM EVENTS

- submit

- Form has been submitted (user clicked “submit” / pressed return)

- change

- The user changed something in the element

- select

- User has selected a new choice in an element

- `focus`

- User has placed his cursor on an element or the element is selected

- `blur`

- The element has lost focus (eg. user has clicked somewhere else).

GETTING INFO FROM THE FORM

- This isn't an event, but useful a jQuery method when dealing with forms.
- `$(selector).val();`

KEYBOARD EVENTS

- keydown
 - Key has been pressed
- keyup
 - Key has been released
- keypress
 - Key has been “pressed” (up and down)
- event.which
 - let's us know what key is being pressed
 - <http://asquare.net/javascript/tests/KeyCode.html>

LAB TIME

`coa_jQuery_Playground_Keyboard_Events`

KEYBOARD EVENTS

What is a keycode?

What am I supposed to do with it?

http://jsbin.com/uyorip/2/quiet#k_104

PREVENTING DEFAULT EVENT BEHAVIOR

```
$("form").submit(function(event) {  
    event.preventDefault();  
    // form will now not POST / redirect  
    // so you can use the data!  
});
```

TIMER EVENTS

SETTING TIMERS

- Timers let us execute code after a period of time, or over and over again at a set interval.
- `setTimeout(function, delay);`
 - Execute a function after a delay
- `setInterval(function, delay);`
 - Execute a function continuously after a delay

TIMERS – TIMEOUT EXAMPLE

```
function timetest() {  
    console.log("1 second has passed!");  
}  
  
var timerId = setTimeout(timetest, 1000);
```


STOPPING TIMERS

- When a timer is set, a timer id is returned. We can use this to stop the timer.
- `clearTimeout(id);`
- `clearInterval(id);`

TIMERS – INTERVAL EXAMPLE

```
function timetest() {  
    console.log("1 second has passed!");  
}  
  
var timerId = setInterval(timetest, 1000);  
  
// Will print forever! We can stop it with:  
clearInterval(timerId);
```

LAB TIME

code along Timer

THIS IS WHAT WE ARE GOING TO BUILD

- [https://googledrive.com/host/
0B7yK_e1LsbdVMjZGeG5ST1BMNWM/index.html](https://googledrive.com/host/0B7yK_e1LsbdVMjZGeG5ST1BMNWM/index.html)

