JQUERY & MORE JAVASCRIPT

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REVIEW

‣ Define arrays and practice using loops and indexes to access array elements

‣ Describe arguments as they relate to functions.

‣ Predict values returned by a given function.

‣ Differentiate control flow between anonymous and named functions.

CODE ALONG

REVIEW

LEARNING OBJECTIVES

‣ Differentiate between jQuery and JavaScript, describe benefits of using them.

‣ Recognize jQuery syntax

‣ Use selectors and jQuery functions to effectively manipulate the DOM

WHAT IS JQUERY?

JQUERY

jQuery is a javascript library, a bunch of javascript code that other developers have written for you to more easily accomplish many common tasks for front end developers.

To take advantage of jQuery, we can add it to our projects just like any other javascript file.

http://jquery.com/download/

WHY USE JQUERY?

JQUERY MAKES JAVASCRIPT EASIER

‣ Uses css selector syntax

‣ Less verbose (less typing!)

‣ Simple animation functions for manipulating DOM Elements

‣ Modifying CSS uses css style syntax

document.getElementById('button')

becomes

$('#button')

document.getElementsByTagName('button')

becomes

$('button')

document.getElementsByClassName('upvotes')

becomes

$('.upvotes')

document.getElementById('button').style.display = 'none';

becomes

$('#button').hide();

LET'S REFACTOR

JQUERY

//original

document.getElementById("button").onclick = changeColor;

function changeColor(){

  document.getElementById("container").style.backgroundColor = 'red';

}

//using an anonymous function instead of a named function

document.getElementById("button").onclick = function (){

  document.getElementById("container").style.backgroundColor = 'red';

};

JQUERY

//using an anonymous function instead of a named function

```
document.getElementById("button").onclick = function (){
    document.getElementById("container").style.backgroundColor = 'red';
};
```

//using jQuery selector and jQuery function to change css

```
$("#button").click(function (){
    $("#container").css('backgroundColor', 'red' );
});
```

THE DIFFERENCE

Plain JavaScript

154 characters

4 lines

jQuery

88 characters

3 lines

JQUERY BASICS

JQUERY

$(" SELECTOR ")

$("#button")   //select id

$(".arrows")   //select classes

$("div")   //select tag names

‣ $() function is a selector function that uses css selector syntax to return an array of matching dom elements.

‣ This $ is the giveaway that you're now using jQuery. The jQuery functions we will see later must act on the jQuery selector above. Plain javascript will not work on jQuery selector objects.

JQUERY

.click();

```
$("#button").click(function (){
    //do stuff after clicking the #button
});
```

‣ create an on click event and tie it to a selection

‣ takes an anonymous function to do work once the click event is fired

‣ Note that click itself is a function so we must finish it with a semi-colon

JQUERY

.hide(); $("#button").hide();

‣ Hides the selected elements

‣ If multiple elements are selected, it will hide all of them

‣ Equivalent to calling #button{ display: none; }

JQUERY

.show(); $("#button").show();

‣ Show the selected elements

‣ If multiple elements are selected, it will show all of them

‣ If the element had a display value before being hidden, jQuery will remember and restore the original display value (block, inline, or inline-block)

JQUERY

.slideUp(); $("#button").slideUp();

‣ Hide the selected elements using a sliding animation

‣ If multiple elements are selected, it will hide all of them

‣ Activating it again will not redo the animation if the element is already hidden

JQUERY

.slideDown(); $("#button").slideDown();

‣ Show the selected elements using a sliding animation

‣ If multiple elements are selected, it will show all of them

‣ Activating it again will not redo the animation if the element is already hidden

JQUERY

.slideToggle(); $("#button").slideToggle();

‣ If the element is hidden, slide it down and show it

‣ If the element is visible, slide it up and hide it

‣ Works like .slideDown() and .slideUp() combined

CODE ALONG
TRAFFIC LIGHT

JQUERY

http://codepen.io/spacewaffle/pen/ogagGY

CODE ALONG
FAQ

LAB
IMAGE CAROUSEL CONTINUED

BONUS!

TIMERS

//waits 1000ms, then changes the container background to red

```
window.setTimeout(function(){
    $("#container").css('backgroundColor',  'red' );
}, 1000);
```

//print a message out to the console every 1000ms

```
window.setTimeout(function(){
    console.log("waiting on stuff…");
}, 1000);
```

FINAL PROJECT

WRAP UP

‣ Differentiate between jQuery and JavaScript, describe benefits of using them.

‣ Recognize jQuery syntax

‣ Use selectors and jQuery functions to effectively manipulate the DOM