

jQuery.fundamentals

jQuery.Fundamentals

Using \$() Function

- jquery(selector) is the same as \$ - The dollar sign is just a shorter way to write it.
- Create HTML elements on the fly
- Manipulate existing DOM elements

```
var el=$( "<div/>" )  
$(window).width()  
$( "div" ).hide();
```



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jQuery Syntax

```
$(function(...){  
    // all site code  
});
```

```
$(selector).func1(...)..func2(...);
```

- `$` = jQuery Object, can be used instead of `jQuery`
- `selector` = many different selectors are allowed
- `func` = Chainable, most functions can return a jQuery object



DOM.Manipulation

jQuery vs JavaScript

- ▶ Always remember that the jQuery factory is returning an *object*.
- ▶ Once we enter a **jQuery chain**, most raw JavaScript will not be accessible.

```
$ ("#mydiv").innerHTML="hi";
```



← **jQuery's Object Factory**

does nothing



jQuery stops most errors

- ▶ innerHTML is a property of DOM objects, not a property of the jQuery object.



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Demo

- **Inline vs External .js files**
- **Hiding a paragraph's visibility when user clicks**



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The “dom ready” callback

```
$(function(){  
    // all site code  
});
```

```
$(document).ready(function(){  
    // all site code  
});
```

- ▶ This argument is a nameless function literal. It should already look familiar, as this is how our **DOMReady** method worked last month.
- ▶ In the same manner, any code inside this function is ran when the page is loaded.



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Demo

- `document.ready.event`
- **Hiding a paragraph's visibility when user clicks**



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Demo

- ▶ **ready.event**

- ▶

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Demo

- ▶ **load**

- ▶

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DOM Element Objects

- ▶ The factory can also be used in targeting DOM elements directly, by their normal object names... *(notice that strings are not being used, only object names)*
- ▶ Keep “window” and “document.body” in mind for later...

```
$(window)...  
$(document.body)...
```

- ▶ *also...*

```
var el = document.getElementsByTagName('div');  
$(el)...
```

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Demo

- **windows load**

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HTML Strings

```
$(' <a href="">Click me</a> ')
```

- ▶ This option of the \$ factory will **create a new block of html code**, and store it by creating a factory object as normal, with all of the methods of the library attached.
- ▶ It's important to note that, while **this creates an object of html code, it does NOT insert into the DOM**, until you tell it to... for which there are jQuery methods.



DOM.Manipulation

Testing Elements

- ▶ Since jQuery won't throw errors on bad selectors, sometimes you may need to test.
- ▶ jQuery objects come with a **.length** property

```
var nav = $('#nav');  
if( nav.length === 0 ){  
    // elements don't exist  
};
```



DOM.Manipulation

What's To Come

- Most of the functionality of jQuery is well documented in their website, and broken up by categories of toolsets which we'll be covering in-depth:
 - **selectors** (factory targets)
 - **element manipulation, walking, and attributes**
 - **events**
 - **animations and effects**
 - **ajax methods**



assignment2.week1 (see schedule for due dates)

- ▶ **Continue to work on your Creative Brief & Prototype**
- ▶ **Wk1_Assignment: jQuery Fundamentals**
 - ▶ **must have:**
 1. Create a complete one page website.
 2. Include an external js file, document.ready, ready, load and windowloads functions.
 3. Create a complete one page website. It must include appropriate html and js files
 3. Turn your deliverable into your PWA2 Repo.
 - Name your document file: **“lastname_firstname_wk1assign2.pdf”**