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100 Days of DevOps — Day 97-Introduction to JQuery

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Welcome to Day 97 of 100 Days of DevOps, Focus for today is Introduction to JQuery

- *jQuery is a Javascript Library.*
- *It is just a large single .js file that has many pre-built methods and objects that simplify our workflow.*
- *jQuery was created as a way to help simplify interactions with the DOM(when jQuery was created the conventional methods such as .querySelector() didn't exist).*
- *One of the main features is the use of the $ sign.*

Download http://jquery.com/download/

If you don't want to download jQuery, you can use the direct CDN link https://code.jquery.com/

Actual jQuery Code: https://code.jquery.com/jquery-3.1.1.js

Difference between using Vanilla vs jQuery

```
//Vanilla

var testvar = document.querySelectorAll('p')

//jQuery

var testvar = $('p')
```

So as we can see it saves lot of our typing works

To confirm jQuery is loaded(type $ sign)

```
$ 0
> function e(e,t=!0,n=!1) {
    // The jQuery object is actually just the init constructor 'enhanced'
    // Need not if jQuery is called (just allow error to be thrown if not included)
    return new
```

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>jQuery Introduction</title>
    <script
  integrity="sha384-ZdcPQ6WH9VEC3nuWGeH2lsvEMEWq7CQK9kTBuELA="
  crossorigin="anonymous"></script>
  </head>
  <body>
<h1>This is an Introduction to jQuery</h1>
<ul>
    <li>first</li>
    <li>Second</li>
    <li>Third</li>
  </ul>
  <a href="https://code.jquery.com/">jQuery</a>
  <input type="text" name="Name" value="What is your name">
  <input type="button" name="ClickMe" value="ClickMe">
  </body>
</html>
```

```
> $('h1')
 ▶ jQuery.fn.init[1] {}
   ▶ 0: h1
   ▶ length: 1
   ▶ prevObject: jQuery.fn.init[1]
   ▶ __proto__: Object[0]
> $('p')
 ▶ jQuery.fn.init[0] {}
   ▶ 0: {}
   ▶ length: 1
   ▶ 1: {}
   ▶ length: 2
   ▶ prevObject: jQuery.fn.init[1]
   ▶ __proto__: Object[0]
> $('ul')
 ▶ jQuery.fn.init[1] {}
   ▶ 0: ul
   ▶ length: 1
   ▶ 1: {}
   ▶ length: 2
   ▶ prevObject: jQuery.fn.init[1]
   ▶ __proto__: Object[0]
```

Selecting via jQuery

Now if I want to change the heading color/background it's pretty straightforward in case of jQuery

```
> $('h1').text('This is an Introduction to jQuery')
 ▶ jQuery.fn.init[1] {0: h1, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('h1').text('This is an Introduction to jQuery')
 ▶ jQuery.fn.init[1] {0: h1, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('h1').text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: h1, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
```

1. First
2. Second
3. Third

jQuery

```
> $('h1').text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: h1, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('p').text('jQuery')
 ▶ jQuery.fn.init[0] {0: p, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('p').text('jQuery')
 ▶ jQuery.fn.init[0] {0: p, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('ul').text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: ul, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('ul').text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: ul, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
```

Now as we see earlier we can grab multiple objects at once and if want to change color to red it will be applied to all items but what would be the case if I want to apply it only to a single item, to make it work we need to use **eq**

NOTE: To grab the last item using negative indexing ***eq(-1)***

```
> $('ul').text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: ul, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('ul').text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: ul, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('ul').eq(-1).text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: ul, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
> $('ul').eq(-1).text('1. First\n2. Second\n3. Third')
 ▶ jQuery.fn.init[1] {0: ul, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
```

1. First
2. Second
3. Third

jQuery

```
> $('p').text('jQuery')
 ▶ jQuery.fn.init[0] {0: p, length: 1, prevObject: jQuery.fn.init[1], __proto__: Object}
```