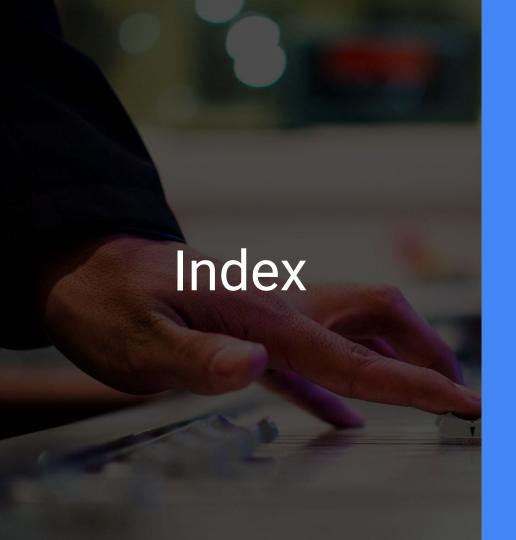


Aitor Hernández Sánchez Adrián Fleitas de la Rosa



- 1. What is jQuery?
- 2. Why using it?
- 3. Installation and use
- 4. Syntax
- 5. Good practices
- 6. Examples
- 7. Ajax
- 8. Plugins
- 9. Conclusions

1. What is jQuery?

1. ¿What is jQuery?

- JavaScript Cross-Browser library
- Created by John Resig
- DOM traversal
- DOM manipulation
- Event handling
- Animation
- AJAX

2. Why using it?

2. ¿Why using it?

- jQuery is widely used
- Open-Source
- Promotes simplicity
- Cross-Browser Compatibility
- Clean syntax
- Lightweight
- SEO friendly
- Utility features

3. Installation and use

3. Installation and use

1. <script> https://code.jquery.com/jquery-3.2.1.min.js </script>

2. \$ npm i -D jquery

```
APP.use('/jquery', EXPRESS.static(PATH.join(__dirname, '../node_modules/jquery/dist/'))); import * as jQuery from './jquery/jquery.js';
```

4. Syntax

4- Syntax

SELECTORS	ATTRIBUTES / CSS MANIPULATION	TRAVERSING	EVENTS	EFFECTS	AJAX	CORE		
Basics Visibility Filters Corms Judden Johnson Doutron Judden Johnson Doutron Johnson Johnson Doutron Johnson Johnson Johnson Attribute distabled dista	Attributes Dimensions activity of the control of th	Filtering eq() first()	Browser Events	Basics Julei Julei Julei Julei Julei Custom Julei Jule	Global Ajax Event Handlers "ajax Erroriti "ajax Erroriti "ajax Stroriti "ajax Stroriti "ajax Stropi "ajax St	Journy Object (Journy Accomited) (Journal of Committed) (Journal of Com	Utilities Figure Annahamid George Contained G	DOM Element Methods Jeet) Janderry Jand

4- Syntax

Html tag -> \$('p')

By class -> \$('.someclass')

By id -> \$('#someid')

```
/** Jquery way to toggle between divs */
#jqueryToggleDiv() {

    $('#jquery').on('click', function() {
        $('#content').toggle();
        $('#alternative').toggle();
    });
}
```

5. Good practices

5- Good practices

- Naming with dollar sign \$img = \$('img')
- Avoid conflict using jQuery.noConflict()
- Cache your jQuery object in a variable
- Use chaining to reduce repetition

\$('.test').addClass('hello').css('color', 'orange').prop('title', 'Hello world');



6. Examples

Toggle

http://10.6.130.141:8080/toggle.html

```
/** Vanilla javascript way to toggle between divs */
#toggleDiv() {
   if(document.getElementById('content').style.display === 'block') {
        document.getElementById('content').style.display = 'none';
        document.getElementById('alternative').style.display = 'block';
    } else {
        document.getElementById('alternative').style.display = 'none';
        document.getElementById('content').style.display = 'block'
    }
}
```

Fade

http://10.6.130.141:8080/fade.html

```
/** Jquery way to fade toggle an image and change button text */
#jqueryFade() {
   this.#jquery.on('click', () => {
    $('#alternative').fadeToggle(600);
    if (this.#jquery.text() === 'Jquery fade in') {
        this.#jquery.text('Jquery fade out');
        } else {
        this.#jquery.text('Jquery fade in');
        }
    });
}
```

```
@param {Object} element
#fadeIn(element){
 element.classList.add('show');
 element.classList.remove('hide');
  @param {Object} element
#fadeOut(element){
 element.classList.add('hide');
 element.classList.remove('show');
#vanillaFade() {
 let img = document.getElementById('alternative');
 let btn = document.getElementById('vanilla');
 btn.addEventListener('click', () => {
   if (img.className.indexOf('hide') !== -1) {
     this.#fadeIn(img);
     btn.innerHTML = 'Vanilla fade out';
    } else {
     this.#fadeOut(img):
     btn.innerHTML = 'Vanilla fade in';
```

Slide

http://10.6.130.141:8080/slide.html

```
/** Vanilla javascript way to slide an element */
#slideDiv() {
  const slided = document.getElementById('alternative').offsetHeight;
  if(slided === 0) {
    document.getElementById('alternative').style.height = '400px';
  } else {
    document.getElementById('alternative').style.height = '0px';
  }
}
```

```
/** Jquery way to slide an element */
#jquerySlideDiv() {
    $('#jquery').on('click', function() {
        $('#content').slideToggle('slow');
    });
}
```

• Shake and mouse over image switch

http://10.6.130.141:8080/index.html

```
/** On mouseover an image it switch to another one */
#over() {
    let imageNumber = 3;
    this.#img.on('mouseover', () => {
        this.#img.toggle('drop');
        let imageString = '../img/japan' + imageNumber + '.jpg';
        imageNumber = imageNumber < 6 ? imageNumber : 2;
        imageNumber++;
        this.#img.attr('src', imageString).toggle('drop');
    });
}</pre>
```

```
/** First shake the image then replace it with the after version
* If the after is clicked apply a pulsate effect
#shake() {
  this.#before.on('click', () => {
  this.#before.effect('shake', 'left', () => {
      this.#before.hide();
     this.#after.show();
   });
  });
  this.#after.on('click', () => {
   this.#after.effect('pulsate', 4);
  });
  $('#reset').on('mousedown', () => {
    this.#after.hide();
  this.#before.show();
 });
```

- Asynchronous JavaScript And XML

- Gmail, Google Maps, Youtube, Facebook tabs...

```
    let response;
    $.get('foo.txt', function(data) {
    response = data;
    }
    console.log(response);
```

```
    $.get("foo.php", function(response) {
    console.log(response);
    });
```

8. Plugins

8. Plugins

plugins.jquery.com

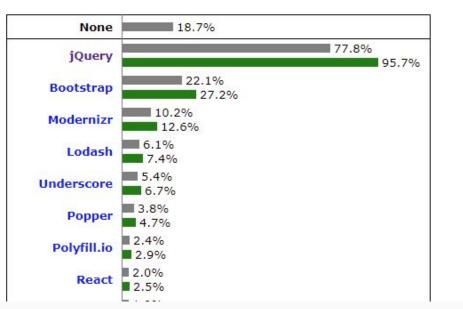


9. Conclusions

9. Conclusions

18.7% of the websites use none of the JavaScript libraries that we monitor. jQuery is used by 77.8% of all the websites, that is a JavaScript library market share of 95.7%.

w3techs usage of jQuery



9. Conclusions

EVENTS

Delegate

you might not need jquery

JQUERY

\$(document).on(eventName, elementSelector, handler);

IE8+

```
document.addEventListener(eventName, function(e) {
    // loop parent nodes from the target to the delegation of the for (var target = e.target; target && target != this; to if (target.matches(elementSelector)) {
          handler.call(target, e);
          break;
     }
}, false);
```

Equipo



Aitor Hernández Sánchez

alu0100987522@ull.edu.es



Adrián Fleitas de la Rosa

alu0101024363@ull.edu.es

Bibliography:

https://stackoverflow.com/tags/jquery/info SO Post info and best practices jQuery

https://oscarotero.com/jquery/ Cheat Sheet

http://youmightnotneedjquery.com/ Vanilla Javascript vs jquery methods

https://learn.jquery.com/ Learn jQuery

https://tekslate.com/11-benefits-jquery-every-web-designers-know Benefits of jquery

https://w3techs.com/technologies/overview/javascript_library Usage of jQuery chart

https://plugins.jquery.com/ jQuery plugins registry