



**Web**  
**jQuery**

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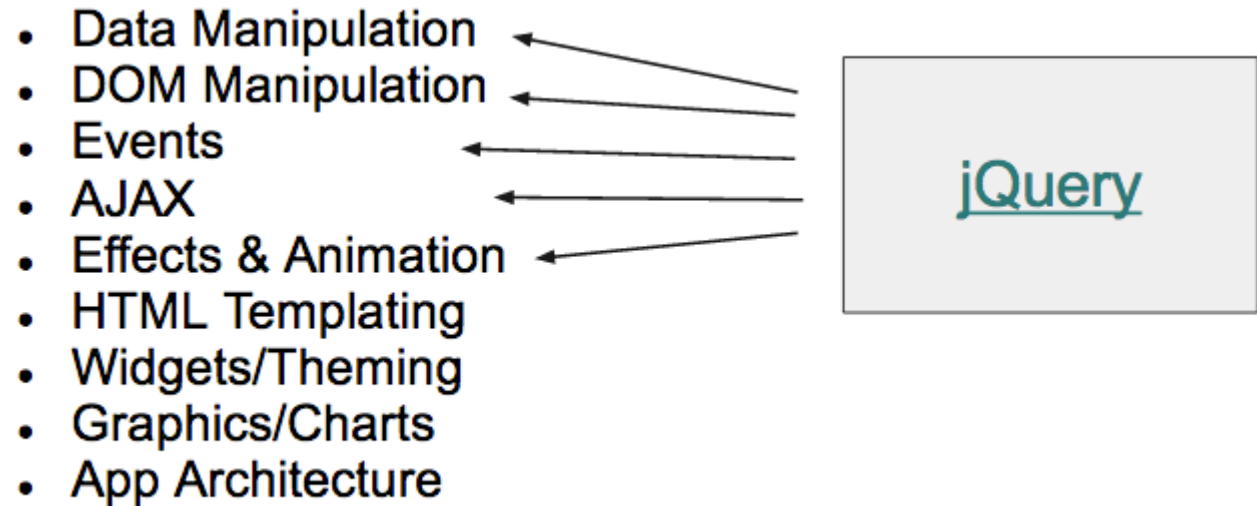
**DCT** DEPARTAMENTO **CIÊNCIA**  
**E TECNOLOGIA**

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# jQuery

- <https://jquery.com/>
- Biblioteca que permite não ter de escrever tanto código



## Porque usar jQuery?

### Sem jQuery

```
var elems =  
document.getElementsByTagName('img');  
for (var i = 0; i < elems.length; i++) {  
    elems[i].style.display = 'none';  
}
```

```
var p = document.createElement('p');  
p.appendChild(document.createTextNode('Welcome!'));  
p.style.cssFloat = 'left';  
p.style.backgroundColor = 'red';  
p.className = 'special';  
document.querySelector('div.header').appendChild(p);
```

### Com jQuery

```
$('img').hide();
```

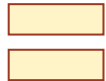
```
var newP = $('<p>Welcome!</p>');  
newP.css({'float': 'left', 'background-color': 'red'});  
newP.addClass('special');  
$('div.header').append(newP);
```

## Passos

```
<p>Welcome to jQuery!</p>
```



```
$('p').addClass('special');
```



```
<p class="special">Welcome to jQuery!</p>
```

- 1º passo: selecionar um elemento  
`$('p')`
- 2º passo: usar um método jQuery para manipular  
`$('p').addClass('special');`

Documentação `.addClass()`: <https://api.jquery.com/addClass/>

# Seletores

- Todos os seletores de CSS são válidos: <https://api.jquery.com/category/selectors/>

```
<p>Welcome!</p>
```

```
<div id="main">Welcome!</div>
```

```
<p class="intro">Welcome!</p>
```

```
<div id="main">  
  <p class="intro">Welcome!</p>  
</div>
```

```
$('p')
```

```
$('#main')
```

```
$('.intro')
```

```
$('#main .intro')
```

## Leitura de elementos

Começando com o HTML:

```
<a id="yahoo" href="http://www.yahoo.com" style="font-size:20px;">Yahoo!</a>
```

O que podemos ir buscar com jQuery:

```
$('#a#yahoo');
```

Podemos guardar:

```
var myLink = $('#a#yahoo');
```

Podemos descobrir:


```
myLink.html();
```

 `Yahoo!`

```
myLink.attr('href');
```

 `http://www.yahoo.com`

```
myLink.css('font-size');
```

 `20px`

## Alterar elementos

```
<a href="http://www.google.com">Google</a>
```



```
$('#a').html('Yahoo!');  
$('#a').attr('href', 'http://www.yahoo.com');  
$('#a').css({'color': 'purple'});
```



```
<a href="http://www.yahoo.com" style="color:purple">Yahoo</a>
```



## Objetos jQuery e DOM

```
var paragraphs = $('p');           // an array
var myParagraph = paragraphs[0];   // a regular DOM node
var $myParagraph = $(paragraphs[0]); // a jQuery Object

                                   // a loop

for(var i = 0; i < paragraphs.length; i++) {
    var element = paragraphs[i];
    var paragraph = $(element);
    paragraph.html(paragraph.html() + ' wowee!!!!');
};
```

## Definição de eventos com jQuery

```
// First Example, with named callback & .on
var onClick = function() {
    console.log('clicked!');
};

$('button').on('click', onClick);

// Second Example, with anonymous callback & .on
$('button').on('click', function () {
    console.log('clicked!');
});

// Third Example, with .click (& a named callback)
$('button').click(onClick)
```

## Prevenir eventos default com jQuery

```
//default event for clicking on link is to go to new page
$('a').on('click', function (event) {
    event.preventDefault();
    console.log('Not going there!');
});

//default event is to submit form and reload page
$('form').on('submit', function (event) {
    event.preventDefault();
    console.log('Not submitting, time to validate!');
});
```

## Definir efeitos e animação

```
//on page load
$('.kitty-image').show(3000);

$('.kitty-image').fadeIn(3000);

//with an event handler, as a callback
$('.button').click(function() {
    $('.kitty-image').show();
});

$('.button').mouseover(function() {
    $(this).css('color', 'red');
});
```

## Plugins jQuery

- *"If you want to create an animation, effect, or UI component, chances are pretty good that someone has done the work for you already."*

- Como usar:

1. Fazer download do plugin e ficheiros associados para a pasta do projeto

2. No HTML, fazer referência aos ficheiros CSS associados

```
<link rel="type/stylessheet" type="text/css" href="tablesorter.css">
```

3. No HTML adicionar uma tag <script> para o plugin jQuery

```
<script src="lib/tablesorter.js"></script>
```

4. No JavaScript chamar o plugin no DOM

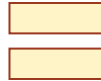
```
$('table').tableSorter();
```

Plugins: <http://plugins.jquery.com/>

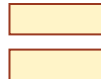
“Which JavaScript Library Should I Pick?": <http://blog.pamelafox.org/2013/07/which-javascript-library-should-i-pick.html>

## Chaining

```
banner.css('color', 'red');  
banner.html('Welcome!');  
banner.show();
```



```
banner.css('color', 'red').html('Welcome!').show();
```



```
banner.css('color', 'red')  
    .html('Welcome!')  
    .show();
```



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