

# Sistemas e Multimédia

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## TPW-II

### Tecnologia e Prática da Web II

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## □ jQuery

- Visão geral
- Instalação
- Sintaxe
- Ready function
- Exemplos

jQuery

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- ❑ jQuery é uma biblioteca de funções em JavaScript criada por John Resig e disponibilizada como software livre e aberto.
  
- ❑ Objetivos:
  - Adicionar efeitos visuais e animações;
  - Buscar informações no servidor sem necessidade de recarregar a página;
  - Prover interatividade;
  - Alterar conteúdos;
  - Modificar apresentação e estilização;
  - Simplificar tarefas específicas de JavaScript;
  - Realizar outras tarefas relacionadas às descritas.

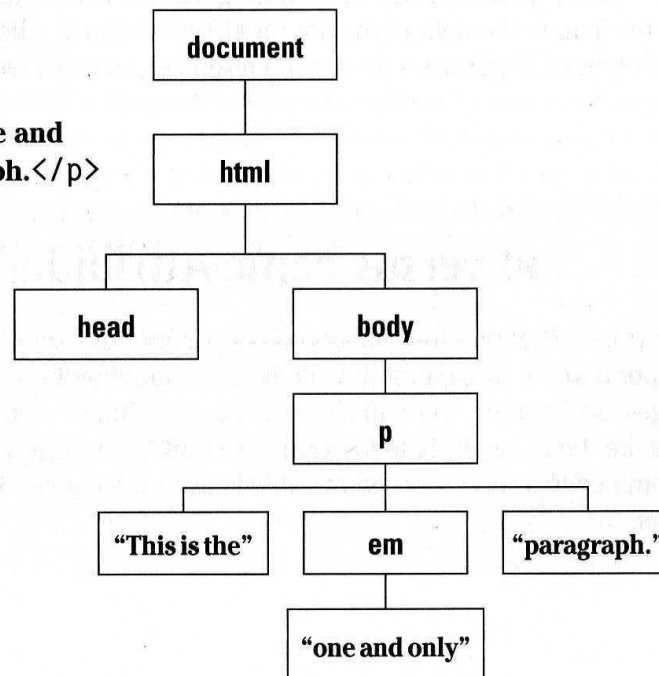
## □ 5 funcionalidades jQuery

- Select DOM (Document Object Model) elements on a page – one element or a group of them
- Set properties of DOM elements, in groups (“Find something, do something with it”)
- Creates, deletes, shows, hides DOM elements
- Defines event behavior on a page (click, mouse movement, dynamic styles, animations, dynamic content)
- AJAX calls

## □ DOM

A simple HTML document node tree.

```
<html>  
  <head></head>  
  <body>  
    <p>This is the <em>one and  
      only</em> paragraph.</p>  
  </body>  
</html>
```



## ❑ Recursos de aprendizagem:

- [www.jquery.com](http://www.jquery.com)
- <http://docs.jquery.com>
- [www.visualjquery.com](http://www.visualjquery.com)
- [www.Jqueryfordesigners.com](http://www.Jqueryfordesigners.com)
- [www.gscottolson.com/weblog/](http://www.gscottolson.com/weblog/) - cheat sheet
- [www.javascripttoolbox.com/jquery](http://www.javascripttoolbox.com/jquery)
- [www.w3schools.com/jquery](http://www.w3schools.com/jquery)

# jQuery instalação

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## ❑ Instalação

### ■ Fazer download

❑ <http://jquery.com/>

```
<head>  
    <script src="jquery-1.9.1.min.js"></script>  
</head>
```

### ■ Ou referenciar um CDN – Content Delivery Network via URL

#### Google

```
<head>  
    <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js">  
    </script>  
</head>
```

#### Microsoft

```
<head>  
    <script src="http://ajax.aspnetcdn.com/ajax/jQuery/jquery-1.9.1.min.js">  
    </script>  
</head>
```

# jQuery sintaxe

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## □ The jQuery Function

- `jQuery() = $()`
- `$(function)` The “Ready” handler
- `$('#selector')` Element selector expression
- `$(element)` Specify element(s) directly
- `$('#HTML')` HTML creation
- `$.function()` Execute a jQuery function
- `$.fn.myfunc(){}`  Create jQuery function

- ❑ The jQuery syntax is tailor made for **selecting** HTML elements and performing some **action** on the element(s).
  
- ❑ Basic syntax is: **`$(selector).action()`**
  - A \$ sign to define/access jQuery
  - A (*selector*) to "query (or find)" HTML elements
  - A jQuery *action()* to be performed on the element(s)
  
- ❑ Examples:
  - `$(this).hide()` - hides the current element
  - `$("p").hide()` - hides all <p> elements
  - `$(".test").hide()` - hides all elements with class="test"
  - `$("#test").hide()` - hides the element with id="test"

## □ JavaScript versus jQuery

### Sintaxe JavaScript

```
document.getElementsByTagName("p")
```

```
document.getElementById("um").setAttribute("class", "cor")
```

### Sintaxe jQuery

```
$("p")
```

```
$("#um").attr("class", "cor")
```

## □ ready() function

- Esta função evita que qualquer código jQuery seja executado antes que o documento esteja completamente carregado (está pronto).

## □ 5 formas de especificar a ready() function

- `jquery(document).ready(function){...});`  
Ou.. `$(document).ready(function){...});`
- `jquery().ready(function){...});`  
Ou.. `$.ready(function){...});`
- `jquery(function){...});`  
Ou.. `$(function){...});`
- `jquery(dofunc);`  
Ou.. `$(dofunc);`

# Exemplos: ready function

```
<script type="text/javascript">
    $.ready(function(){

        // jQuery methods go here...

    });

    jquery(document).ready(function () {

        // jQuery methods go here...

    });

    $(function () {

        // jQuery methods go here...

    });

</script>
```

## Exemplos: jQuery User Interface

<http://jqueryui.com/>

### Interactions

- Draggable
- Droppable
- Resizable
- Selectable
- Sortable

### Widgets

- Accordion
- Autocomplete
- Button
- Datepicker
- Dialog
- Menu
- Progressbar
- Slider
- Spinner
- Tabs
- Tooltip

### Effects

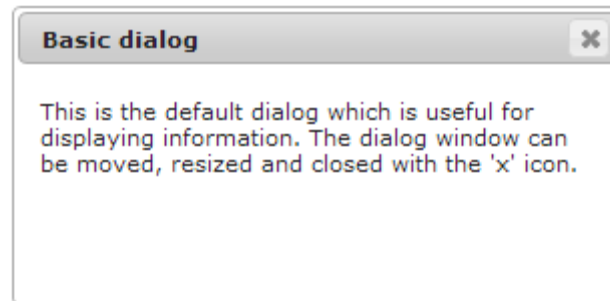
- Add Class
- Color Animation
- Effect
- Hide
- Remove Class
- Show
- Switch Class
- Toggle
- Toggle Class

### Utilities

- Position
- Widget Factory



## Exemplo:



# Exemplo:

```
<!doctype html>
```

```
<html>
```

```
  <head>
```

```
    <meta charset="utf-8" />
```

```
    <title>jQuery UI Dialog - Default functionality</title>
```

```
    <link rel="stylesheet"
```

```
      href="http://code.jquery.com/ui/1.10.3/themes/smoothness/jquery-ui.css" />
```

```
    <script src="http://code.jquery.com/jquery-1.9.1.js"></script>
```

```
    <script src="http://code.jquery.com/ui/1.10.3/jquery-ui.js"></script>
```

```
    <link rel="stylesheet" href="/resources/demos/style.css" />
```

```
    <script>
```

```
      $(function() {
```

```
        $( "#dialog" ).dialog();
```

```
      });
```

```
    </script>
```

```
  </head>
```

```
<body>
```

```
<div id="dialog" title="Basic dialog">
```

```
  <p>This is the default dialog which is useful for displaying
    information. The dialog window can be moved, resized and closed with the 'x'
    icon.</p>
```

```
</div>
```

```
</body>
```

```
</html>
```

Basic dialog



This is the default dialog which is useful for displaying information. The dialog window can be moved, resized and closed with the 'x' icon.

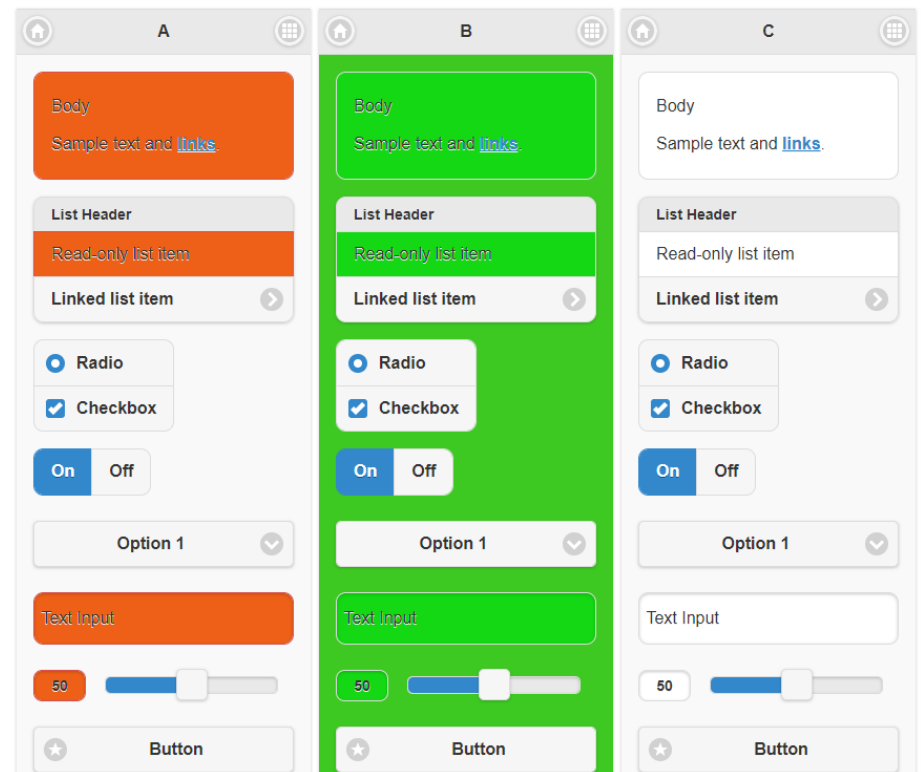
# jQuery Mobile

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<http://jquerymobile.com/>

<http://jquerymobile.com/demos/>



<http://themeroller.jquerymobile.com/>