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Développement Front End
JQUERY

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jQuery : Introduction

jQuery permet de faire beaucoup tâches javaScript avec beaucoup moins de lignes de code.

jQuery simplifie également beaucoup de choses complexes en JavaScript, comme les appels AJAX et la manipulation DOM.

La bibliothèque jQuery contient les fonctionnalités suivantes:

- ✓ Manipulation HTML / DOM

- ✓ Manipulation de CSS

- ✓ Méthodes d'événement HTML

- ✓ Effets et animations

- ✓ AJAX

jQuery : Utilisation

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").hide();
  });
});
</script>
</head>
<body>
<p>Paragraphe 1</p>
<p>Paragraphe 2</p>
<button>Tester</button>
</body>
</html>
```

jQuery : Syntaxe de base

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
    $(document).ready(function(){
        $("button").click(function(){
            $(this).hide();
            $("p").hide();
            $(".ma_classe").hide();
            $("#mon_id").hide();
        });
    });
</script>
</head>
<body>
<p>Paragraphe 1</p>
<div class="ma_classe">Paragraphe 2</div>
<div id="mon_id">Paragraphe 3</div>
<button>Tester</button>
</body>
</html>
```

jQuery : Evénements

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
    $(document).ready(function(){
        $("p").on({
            mouseenter: function(){ $(this).css("background-color", "lightgray");},
            mouseleave: function(){ $(this).css("background-color", "lightblue");},
            click:      function(){ $(this).css("background-color", "yellow");}
        });
    });
</script>
</head>
<body>
<p>Paragraphe</p>
</body>
</html>
```

jQuery : Effets
(Hide - Show)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
    $(document).ready(function(){
        $("#hide").click(function(){
            $("p").hide();
        });
        $("#show").click(function(){
            $("p").show();
        });
    });
</script>
</head>
<body>
<p>Si vous cliquez sur le bouton "Masquer", je vais disparaître.</p>
<button id="hide">Masquer</button>
<button id="show">Montrer</button>
</body>
</html>
```

jQuery : Effets
(Slide)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script src="script.js"></script>
<style>
#panel, #flip {
  padding: 5px;
  text-align: center;
  background-color: #e5eecc;
  border: solid 1px #c3c3c3;
}
#panel {
    padding: 50px;
    display: none;
}
</style>
</head>
<body>
<div id="flip">Click to slide down panel</div>
<div id="panel">Hello world!</div>
</body>
</html>
```

jQuery : Effets
(Slide)

```javascript
$(document).ready(function(){
  $("#flip").click(function(){
    $("#panel").slideDown("slow");
  });
});

/*
$(document).ready(function(){
  $("#flip").click(function(){
    $("#panel").slideUp("slow");
  });
});

$(document).ready(function(){
  $("#flip").click(function(){
    $("#panel").slideToggle("slow");
  });
});
*/
```

jQuery : Contenu
(Get : Texte/HTML)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#btn1").click(function(){
    alert("Text: " + $("#test").text());
  });
  $("#btn2").click(function(){
    alert("HTML: " + $("#test").html());
  });
});
</script>
</head>
<body>
<p id="test">Ceci est un texte <b>gras</b> dans un paragraphe.</p>
<button id="btn1">TEXTE</button>
<button id="btn2">HTML</button>
</body>
</html>
```

jQuery : Contenu (Get : Valeur)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    alert("Value: " + $("#test").val());
  });
});
</script>
</head>
<body>
<input type="text" id="test" value="Valeur teste">
<button>Montrer</button>
</body>
</html>
```

jQuery : Contenu
(Get : attribut)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
 $("button").click(function(){
    alert($("#med").attr("href"));
  });
});
</script>
</head>
<body>
<p><a href="http://bahri-mohammed.fr" id="med">Mon site web</a></p>
<button>Tester</button>
</body>
</html>
```

jQuery : Contenu (Set : Texte/HTML)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#btn1").click(function(){
    $("#test1").text("Bonjour!");
  });
  $("#btn2").click(function(){
    $("#test2").html("<b>Bonjour!</b>");
  });
  $("#btn3").click(function(){
    $("#test3").val("Mohammed BAHRI");
  });
});
</script>
</head>
<body>
    <p id="test1">Paragraphe 1</p>
    <p id="test2">Paragraphe 2</p>
    <input type="text" id="test3" value="Valeur par default">
    <button id="btn1">Set Text</button>
    <button id="btn2">Set HTML</button>
    <button id="btn3">Set Value</button>
</body>
</html>
```

jQuery : Contenu
(Set : Attribut)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#med").attr("href", "http://bahri-mohammed.fr/jquery/");
  });
});
</script>
</head>
<body>
<p><a href="http://bahri-mohammed.fr/" id="med">Mohammed.fr</a></p>
<button>Changer la veleur href</button>
</body>
</html>
```

jQuery : Contenu (Add:Append)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#btn1").click(function(){
    $("p").append("<b>Appended text new</b>.");
  });
  $("#btn2").click(function(){
    $("ol").append("<li>List item new</li>");
  });
});
</script>
</head>
<body>
    <p>This is a paragraph.</p>
    <ol>
      <li>List item</li>
    </ol>
    <button id="btn1">Append text</button>
    <button id="btn2">Append list items</button>
</body>
</html>
```

jQuery : Contenu (Add:Prepend)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#btn1").click(function(){
    $("p").prepend("<b>Prepended text</b>.");
  });
  $("#btn2").click(function(){
    $("ol").prepend("<li>Prepended item</li>");
  });
});
</script>
</head>
<body>
    <p>This is a paragraph.</p>
    <ol>
      <li>List item 1</li>
    </ol>
    <button id="btn1">Prepend text</button>
    <button id="btn2">Prepend list item</button>
</body>
</html>
```

jQuery : Contenu (Add: Before/After)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("#btn1").click(function(){
    $("p").before("<h1>Before</h1>");
  });
  $("#btn2").click(function(){
    $("p").after("<i>After</i><br>");
  });
});
</script>
</head>
<body>
<p>Paragraphe...</p>
<button id="btn1">Insert before</button>
<button id="btn2">Insert after</button>
</body>
</html>
```

jQuery : Contenu (Remove)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#div1").remove();
  });
});
</script>
</head>
<body>
<div id="div1" style="background-color:yellow;">
<p>This is a paragraph in the div.</p>
<p>This is another paragraph in the div.</p>
</div>
<br>
<button>Remove div element</button>
</body>
</html>
```

jQuery : Contenu (Empty)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#div1").empty();
  });
});
</script>
</head>
<body>
<div id="div1" style="height:100px;width:300px;background-color:yellow;">
<p>This is a paragraph in the div.</p>
<p>This is another paragraph in the div.</p>
</div>
<br>
<button>Empty the div element</button>
</body>
</html>
```

jQuery : Contenu (Class:Add)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("h1, h2").addClass("blue");
  });
});
</script>
<style>
.blue { color: blue; }
</style>
</head>
<body>
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<button>Add class blue</button>
</body>
</html>
```

jQuery : Contenu (Class:Remove)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("h1, h2").removeClass("blue");
  });
});
</script>
<style>
.blue { color: blue; }
</style>
</head>
<body>
<h1 class="blue">Heading 1</h1>
<h2 class="blue">Heading 2</h2>
<button>Remove class blue</button>
</body>
</html>
```

jQuery : Contenu (Class:Toggle)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("h1, h2").toggleClass("blue");
  });
});
</script>
<style>
.blue { color: blue; }
</style>
</head>
<body>
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<button>Toggle class</button>
</body>
</html>
```

jQuery : Contenu (CSS)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    alert("The font size = " + $("p").css("font-size"));
  });
});
</script>
</head>
<body>
<p style="font-size:20px;">This is a paragraph.</p>
<button>Return font-size of p</button>
</body>
</html>
```

jQuery : Contenu (CSS)

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").css({"background-color":"yellow", "color":"white"});
  });
});
</script>
</head>
<body>
<p style="background-color:green;">This is a paragraph.</p>
<button>Set background-color of p</button>
</body>
</html>
```

jQuery : Exercice 1

Ecrivez un texte s'agrandissant en lui cliquant dessus.

Si on reclique dessus, il reprend sa taille initiale.

Mon texte qui s'agrandit

Mon texte qui s'agrandit

jQuery : Corrigé 1

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
    var taillePoliceInitiale = $('p').css('fontSize');
$('p').click(function(){
  if( $(this).css('fontSize') != '100px' ){
    $(this).css('fontSize', '100px');
  } else {
    $(this).css('fontSize', taillePoliceInitiale);
  }
});
});
</script>
</head>
<body>
<p style="font-size: 50px;">Mon texte qui s'agrandit</p>
</body>
</html>
```

jQuery : Exercice 2

This is some text in the div.

This is a paragraph in the div.

This is another paragraph in the div.

| Clean | Set |

| Clean | Set |

jQuery : Corrigé 2

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script>
$(document).ready(function() {
    var html = $("#div1").html();
    $("#btn1").click(function() {
        $("#div1").empty();
    });
    $("#btn2").click(function() {
        $("#div1").html(html);
    });
});
</script>
</head>
<body>
    <div id="div1"
    style="height: 100px; width: 300px; border: 1px solid black; background-color: yellow;">
    This is some text in the div.
        <p>This is a paragraph in the div.</p>
        <p>This is another paragraph in the div.</p>
    </div><br>
    <button id="btn1" style="width: 60px;">Clean</button>
    <button id="btn2" style="width: 60px;">Set</button>
</body>
</html>
```

jQuery : Exercice 2

Créez 4 boutons et un rectangle. Chaque bouton provoque une action sur le rectangle.

➢ Bouton 1 : met le rectangle en vert

➢ Bouton 2 : met le rectangle en bleu

➢ Bouton 3 : met le rectangle en rouge

➢ Bouton 4 : met le rectangle en orange

Vert | Bleu | Rouge | Orange

jQuery : Corrigé 2

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
 var couleurInitiale = $('#rectangle').css('backgroundColor');
 $('#bouton1').click(function(){ $('#rectangle').css('backgroundColor', 'green'); });
 $('#bouton2').click(function(){ $('#rectangle').css('backgroundColor', 'blue'); });
 $('#bouton3').click(function(){ $('#rectangle').css('backgroundColor', 'red'); });
 $('#bouton4').click(function(){ $('#rectangle').css('backgroundColor', couleurInitiale); });
});
</script>
<style> #rectangle { background:orange; height:50px; margin-top:30px; } </style>
</head>
<body>
 <a href="#" id="bouton1">Vert </a> |
 <a href="#" id="bouton2">Bleu </a> |
 <a href="#" id="bouton3">Rouge </a> |
 <a href="#" id="bouton4">Orange</a>
 <div id="rectangle"></div>
</body>
</html>
```

jQuery : Exercice 3

Créez une liste d'éléments. L'élément sélectionné change de style.

NB : Lorsque on clique sur un élément, tous les éléments reprennent le style de initial, hormis l'élément courant.

En gros, il faut faire en sorte que quand on clique sur un <li>, on mette une classe "active" sur le <li>. Pour ajouter une classe, on peut utiliser addClass(), pour en retirer une, removeClass().
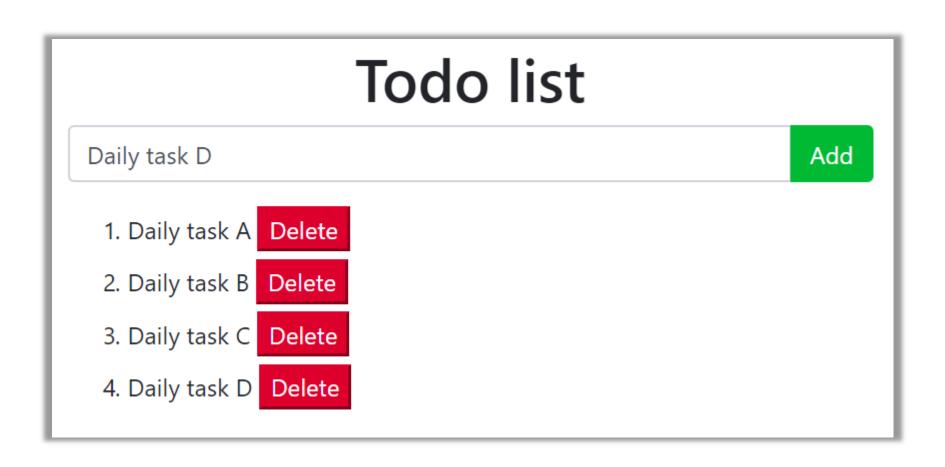
Paris

Lille

Montpellier

jQuery : Corrigé 3 (1)

```html
<!DOCTYPE html>
<html>
<head>
<style>
li{
 list-style:none;
 padding:10px;
 margin-top:5px;
 background-color:orange;
 border-radius:10px;width:50%;
}
.active{
 color: white;
 background-color:green;
 font-weight: bold;
}
</style>
</head>
```

jQuery : Corrigé 3 (2)

```html
<body>
<ul>
<li>Paris</li>
<li>Lille</li>
<li>Montpellier</li>
</ul>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
$('li').click(function(){
 $('ul li').removeClass('active');
 $(this).addClass('active');
});
});
</script>
</body>
</html>
```

jQuery : Exercice 4

Todo list

Daily task D [Add]

1. Daily task A [Delete]
2. Daily task B [Delete]
3. Daily task C [Delete]
4. Daily task D [Delete]

jQuery : Corrigé 4

```html
<!DOCTYPE html>
<html>
<head>
 <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">
<style>
    li{
        margin-bottom:5px;
    }
</style>
</head>
<body>
<div class="container" style="margin-top:30px;">
    <h1 align=center>Todo list</h1>
    <div class="input-group mb-3">
        <input type="text" class="form-control" placeholder="Add task" id="todo">
            <div class="input-group-append">
                <button class="btn btn-success" type="submit" id="todo-add">Add</button>
            </div>
        </div>
        <ol></ol>
</div>
```

jQuery : Corrigé 4

```html
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script>
  function remove(){
    $(".btn-danger").click(function(){
      $(this).parent().remove();
      $(this).remove();
    });
  }

  $(document).ready(function() {
    $("#todo-add").click(function() {
      var task = $("#todo").val();
      $("ol").append("<li>"+task+" <button onclick='remove()'
                      class='btn-danger'>Delete</button></li>");
    });
  });
</script>
</body>
</html>
```

jQuery : Exercice 5

Avant le click

Après le click

Titre 1

Titre 2

Ceci est un paragraphe.

Ceci est un autre paragraphe.

Supprimer la classe des éléments

Titre 1

Titre 2

Ceci est un paragraphe.

Ceci est un autre paragraphe.

Supprimer la classe des éléments

jQuery : Corrigé 5

```html
<!DOCTYPE html>
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("h1, h2, p").removeClass("blue");
  });
});
</script>
<style>
.blue {
  color: blue;
}
</style>
</head>
<body>
<h1 class="blue">Titre 1</h1>
<h2 class="blue">Titre 2</h2>
<p class="blue">Ceci est un paragraphe.</p>
<p>Ceci est un autre paragraphe.</p>
<button>Supprimer la classe des éléments</button>
</body>
</html>
```

jQuery : Ajax

```html
<!DOCTYPE html>
<head>
<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
<script>
$(document).ready(function(){
    /*
    $.ajax({
        type: "GET",
        url: 'http://localhost/api-php-jquery/test.php',
        success: function(data){
            console.log(data);
        }
    });
    */
    $.ajax({
        type: "POST",
        url: 'http://localhost/api-php-jquery/test.php',
        data: {firstname: 'Wayne', lastname: 'Wayne'},
        success: function(data){
            console.log(data);
        }
    });
});
</script>
</head>
<body>
```