



**JQuery**

**FDP 5.0**



# Nội dung

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- ❖ HTML/CSS

- ❖ Traversing

# HTML/CSS

## Get content

- ❖ text():
- ❖ html():
- ❖ val():

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/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">This is some <b>bold</b> text in a paragraph.</p>

<button id="btn1">Show Text</button>
<button id="btn2">Show HTML</button>

</body>
```

This is some **bold** text in a paragraph.

Show Text

Show HTML

# HTML/CSS

Get content

- ❖ text():
- ❖ html():
- ❖ val():

```
<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(){
    alert("Value: " + $("#test").val());
  });
});
</script>
</head>
<body>

<p>Name: <input type="text" id="test" value="Mickey Mouse"></p>

<button>Show Value</button>

</body>
</html>
```

Name:

### ❖ atr()

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    alert($("#w3s").attr("href"));
  });
});
</script>
</head>
<body>

<p><a href="https://www.w3schools.com" id="w3s">W3Schools.com</a></p>

<button>Show href Value</button>

</body>
</html>
```

[W3Schools.com](https://www.w3schools.com)

Show href Value

# HTML/CSS

- ❖ text()
- ❖ html()
- ❖ val()
- ❖ attr()

This is a **bold** paragraph.

This is another **bold** paragraph.

set

```
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("#btn1").click(function(){
    $("#test1").text(function(i, origText){
      return "Old text: " + origText + " New text: Hello world! (index: " +
i + ")";
    });
  });

  $("#btn2").click(function(){
    $("#test2").html(function(i, origText){
      return "Old html: " + origText + " New html: Hello <b>world!</b>
(index: " + i + ")";
    });
  });
});
</script>
</head>
<body>

<p id="test1">This is a <b>bold</b> paragraph.</p>
<p id="test2">This is another <b>bold</b> paragraph.</p>

<button id="btn1">Show Old/New Text</button>
<button id="btn2">Show Old/New HTML</button>
```

# HTML/CSS

set

- ❖ text()
- ❖ html()
- ❖ val()
- ❖ attr()

```
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#w3s").attr({
      "href" : "https://www.w3schools.com/jquery/",
      "title" : "W3Schools jQuery Tutorial"
    });
  });
});
</script>
</head>
```

[W3Schools.com](https://www.w3schools.com)

Change href and title

Mouse over the link to see that the href attribute has changed and a title attribute is set.

```
<p><a href="https://www.w3schools.com" title="some title"
id="w3s">W3Schools.com</a></p>
```

```
<button>Change href and title</button>
```

```
<p>Mouse over the link to see that the href attribute has changed and a
title attribute is set.</p>
```

# HTML/CSS

add

- ❖ append()
- ❖ prepend()
- ❖ after()
- ❖ before()

This is a paragraph.

Append text

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
function appendText() {
    var txt1 = "<p>Text.</p>";           // Create text with HTML
    var txt2 = $("<p></p>").text("Text."); // Create text with jQuery
    var txt3 = document.createElement("p");
    txt3.innerHTML = "Text.";           // Create text with DOM
    $("body").append(txt1, txt2, txt3); // Append new elements
}
</script>
</head>
<body>

<p>This is a paragraph.</p>
<button onclick="appendText()">Append text</button>

</body>
</html>
```

# HTML/CSS

add

- ❖ append()
- ❖ prepend()
- ❖ after()
- ❖ before()

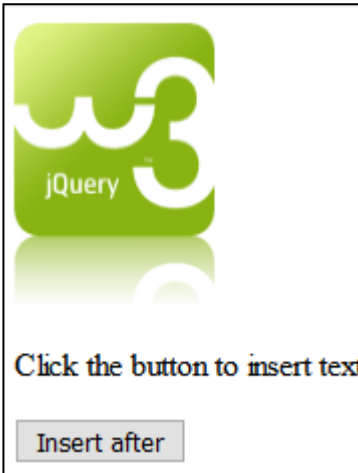
```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
function afterText() {
    var txt1 = "<b>I </b>";           // Create element with HTML
    var txt2 = $("<i></i>").text("love "); // Create with jQuery
    var txt3 = document.createElement("b"); // Create with DOM
    txt3.innerHTML = "jQuery!";
    $("img").after(txt1, txt2, txt3); // Insert new elements after img
}
</script>
</head>
<body>



<p>Click the button to insert text after the image.</p>

<button onclick="afterText()">Insert after</button>

</body>
</html>
```



# HTML/CSS

remove

- ❖ remove():  
Xóa phần tử
- ❖ empty():  
Xóa các con  
của phần tử

```
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").remove(".test");
  });
});
</script>
<style>
.test {
  color: red;
  font-size: 20px;
}
</style>
</head>
<body>

<p>This is a paragraph.</p>
<p class="test">This is another paragraph.</p>
<p class="test">This is another paragraph.</p>

<button>Remove all p elements with class="test"</button>

</body>
```

This is a paragraph.

This is another paragraph.

This is another paragraph.

Remove all p elements with class="test"

# HTML/CSS

remove

- ❖ remove()  
: Xóa phần tử
- ❖ empty():  
Xóa các con của phần tử

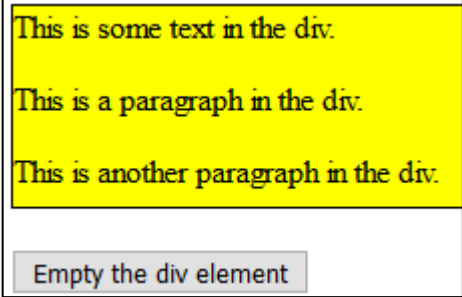
```
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#div1").empty();
  });
});
</script>
</head>
<body>

<div id="div1" style="height:100px;width:300px;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>Empty the div element</button>
```



# HTML/CSS

CSS

- ❖ `addClass()`
- ❖ `removeClass()`
- ❖ `toggleClass()`
- ❖ `css(): set/get thuộc tính style`

```
<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").addClass("blue");
    $("div").addClass("important");
  });
});
</script>
<style>
.important {
  font-weight: bold;
  font-size: xx-large;
}

.blue {
  color: blue;
}
</style>
</head>
<body>

<h1>Heading 1</h1>
<h2>Heading 2</h2>

<p>This is a paragraph.</p>
<p>This is another paragraph.</p>

<div>This is some important text!</div><br>

<button>Add classes to elements</button>
```

**Heading 1**

**Heading 2**

This is a paragraph.

This is another paragraph.

**This is some important text!**

Add classes to elements

- ❖ `addClass()`
- ❖ `removeClass()`
- ❖ `toggleClass()`
- ❖ `css(): set/get`  
thuộc tính  
style

```
<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">Heading 1</h1>
<h2 class="blue">Heading 2</h2>

<p class="blue">This is a paragraph.</p>
<p>This is another paragraph.</p>

<button>Remove class from elements</button>
```

**Heading 1**

**Heading 2**

This is a paragraph

This is another paragraph

Remove class from elements

# HTML/CSS

CSS

- ❖ `addClass()`
- ❖ `removeClass()`
- ❖ `toggleClass()`
- ❖ `css(): set/get`  
thuộc tính  
style

```
<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").toggleClass("blue");
  });
});
</script>
<style>
.blue {
  color: blue;
}
</style>
</head>
<body>

<h1>Heading 1</h1>
<h2>Heading 2</h2>

<p>This is a paragraph.</p>
<p>This is another paragraph.</p>

<button>Toggle class</button>
```

**Heading 1**

**Heading 2**

This is a paragraph.

This is another paragraph.

Toggle class

- ❖ `addClass()`
- ❖ `removeClass()`
- ❖ `toggleClass()`
- ❖ `css(): set/get`  
thuộc tính  
style

**This is a heading**

This is a paragraph.

This is a paragraph.

This is a paragraph.

This is a paragraph.

```
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").css({"background-color": "yellow", "font-size": "200%"});
  });
});
</script>
</head>
<body>

<h2>This is a heading</h2>

<p style="background-color:#ff0000">This is a paragraph.</p>
<p style="background-color:#00ff00">This is a paragraph.</p>
<p style="background-color:#0000ff">This is a paragraph.</p>

<p>This is a paragraph.</p>

<button>Set multiple styles for p</button>
```

# HTML/CSS

## Dimension

- ❖ width()
- ❖ height()
- ❖ innerWidth()
- ❖ innerHeight()
- ❖ outerWidth()
- ❖ outerHeight()

```
<script>
$(document).ready(function(){
  $("button").click(function(){
    var txt = "";
    txt += "Width of div: " + $("#div1").width() + "<br>";
    txt += "Height of div: " + $("#div1").height() + "<br>";
    txt += "Outer width of div (margin included): " +
$("#div1").outerWidth(true) + "<br>";
    txt += "Outer height of div (margin included): " +
$("#div1").outerHeight(true);
    $("#div1").html(txt);
  });
});
</script>
```

```
<style>
#div1 {
  height: 100px;
  width: 300px;
  padding: 10px;
  margin: 3px;
  border: 1px solid blue;
  background-color: lightblue;
}
</style>
</head>
```



Display dimensions of div

outerWidth(true) - returns the width of an element (border, and margin).  
outerHeight(true) - returns the height of an element (border, and margin).

```
<body>
<div id="div1"></div>
<br>
<button>Display dimensions of div</button>
<p>outerWidth(true) - returns the width of an element (border, and margin).</p>
<p>outerHeight(true) - returns the height of an element (border, and margin).</p>
</body>
```

# HTML/CSS

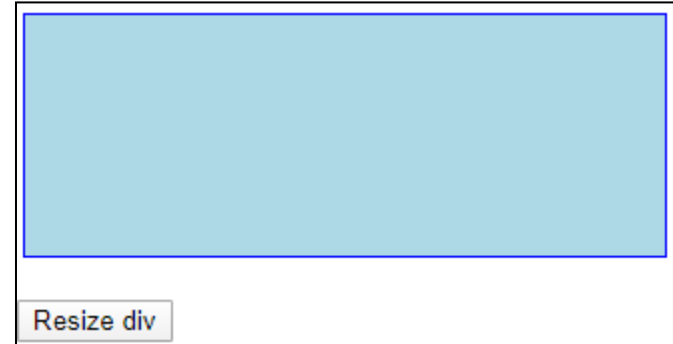
## Dimension

- ❖ width()
- ❖ height()
- ❖ innerWidth()
- ❖ innerHeight()
- ❖ outerWidth()
- ❖ outerHeight()

```
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("#div1").width(500).height(500);
  });
});
</script>
<style>
#div1 {
  height: 100px;
  width: 300px;
  padding: 10px;
  margin: 3px;
  border: 1px solid blue;
  background-color: lightblue;
}
</style>
</head>
<body>

<div id="div1"></div>
<br>

<button>Resize div</button>
```



# HTML/CSS

---

## Descendants

- ❖ `children()`: trả về tất cả phần tử con trực tiếp
- ❖ `children("p.first")`:
- ❖ `find("span")`: Trả về tất cả phần tử con/cháu là span
- ❖ `find("*")`: Trả về tất cả phần tử con/cháu

# HTML/CSS

## Descendants

div (current element)

p (child)

span (grandchild)

p (child)

span (grandchild)

```
<style>
.descendants * {
  display: block;
  border: 2px solid lightgrey;
  color: lightgrey;
  padding: 5px;
  margin: 15px;
}
</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("div").children().css({"color": "red", "border": "2px solid red"});
});
</script>
</head>
<body>
<div class="descendants" style="width:500px;">div (current element)
  <p>p (child)
    <span>span (grandchild)</span>
  </p>
  <p>p (child)
    <span>span (grandchild)</span>
  </p>
</div>
```

# HTML/CSS

## Descendants

div (current element)

p (child)

span (grandchild)

p (child)

span (grandchild)

```
<style>
.descendants * {
  display: block;
  border: 2px solid lightgrey;
  color: lightgrey;
  padding: 5px;
  margin: 15px;
}
</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("div").find("span").css({"color": "red", "border": "2px solid red"});
});
</script>
</head>
<body>
<div class="descendants" style="width:500px;">div (current element)
  <p>p (child)
    <span>span (grandchild)</span>
  </p>
  <p>p (child)
    <span>span (grandchild)</span>
  </p>
</div>
```

# HTML/CSS

---

- ❖ `sibling()`: tất cả anh chị em ruột
- ❖ `next()`: ACE kế tiếp
- ❖ `nextAll()`: tất cả ACE kế tiếp
- ❖ `nextUntil("h6")`: ACE giữa phần tử được chọn và `<h6>`
- ❖ `prev()`:
- ❖ `prevAll()`:
- ❖ `prevUntil()`:

# HTML/CSS

## Siblings

div (parent)

p

span

h2

h3

h4

h5

h6

```
<style>
.siblings * {
  display: block;
  border: 2px solid lightgrey;
  color: lightgrey;
  padding: 5px;
  margin: 15px;
}
</style>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("h2").nextUntil("h6").css({"color": "red", "border": "2px solid red"});
});
</script>
</head>
<body class="siblings">
<div>div (parent)
  <p>p</p>
  <span>span</span>
  <h2>h2</h2>
  <h3>h3</h3>
  <h4>h4</h4>
  <h5>h5</h5>
  <h6>h6</h6>
```

# HTML/CSS

---

- ❖ `first()`:
- ❖ `last()`:
- ❖ `eq (index)`: trả về phần tử tại vị trí `index`
- ❖ `filter(criteria)`: Lọc dựa vào điều kiện
  - ❖ `$(“p”).filter(“.intro”)`
- ❖ `not(criteria)`: ngược lại với `filter`

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("p").eq(1).css("background-color", "yellow");
});
</script>
</head>
<body>

<h1>Welcome to My Homepage</h1>

<p>My name is Donald (index 0).</p>
<p>Donald Duck (index 1).</p>
<p>I live in Duckburg (index 2).</p>
<p>My best friend is Mickey (index 3).</p>

</body>
</html>
```

## Welcome to My Homepage

My name is Donald (index 0).

Donald Duck (index 1).

I live in Duckburg (index 2).

My best friend is Mickey (index 3).

# HTML/CSS

```
<html>
<head>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
<script>
$(document).ready(function(){
  $("p").not(".intro").css("background-color", "yellow");
});
</script>
</head>
<body>

<h1>Welcome to My Homepage</h1>

<p>My name is Donald.</p>
<p class="intro">I live in Duckburg.</p>
<p class="intro">I love Duckburg.</p>
<p>My best friend is Mickey.</p>

</body>
</html>
```

## Welcome to My Homepage

My name is Donald.

I live in Duckburg.

I love Duckburg.

My best friend is Mickey.

Thank you and  
happy learning !!!