

#OUER TO MOTE

## jQuery

Effects, Chaining function calls, jQuery Plugins

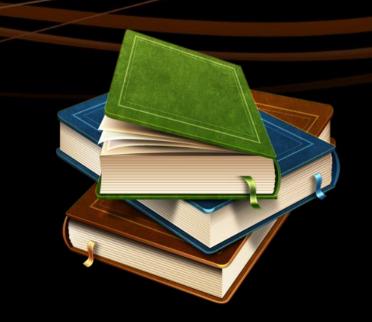
Au Mau Duong Technical Trainers

1	September 2013					•
Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	31
1	2	3	4	5	6	7
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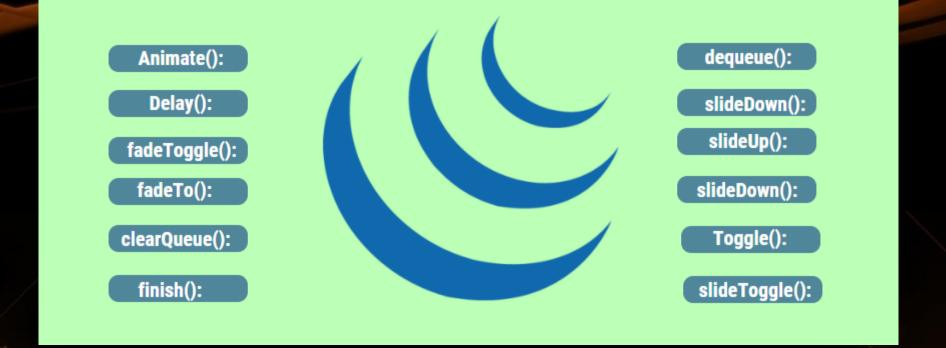


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# jQuery Efects

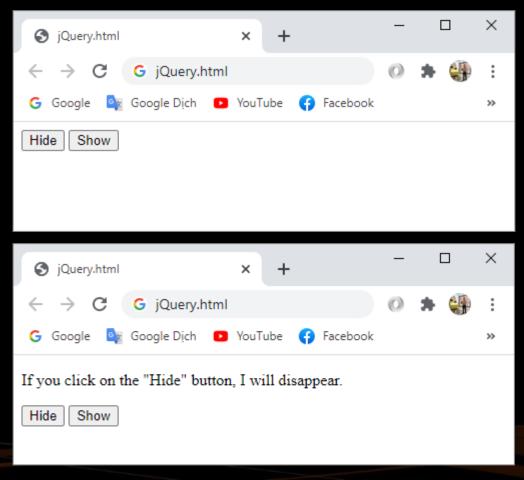
#### jQuery Efects - Hide and Show

- Syntax
  - \$(selector).hide(speed,callback);
  - \$(selector).show(speed,callback);
- The optional speed parameter specifies the speed of the hiding/showing, and can take the following values: "slow", "fast", or milliseconds.
- The optional callback parameter is a function to be executed after the hide() or show() method completes (you will learn more about callback functions in a later chapter)

## jQuery Efects - Hide() and Show()

```
If you click on the "Hide" button, I will disappear.
<button id="hide">Hide</button>
<button id="show">Show</button>
```

```
<script>
$(document).ready(function(){
  $("#hide").click(function(){
    $("p").hide();
 });
  $("#show").click(function(){
    $("p").show();
 });
</script>
```



## jQuery Efects - Hide() with speed

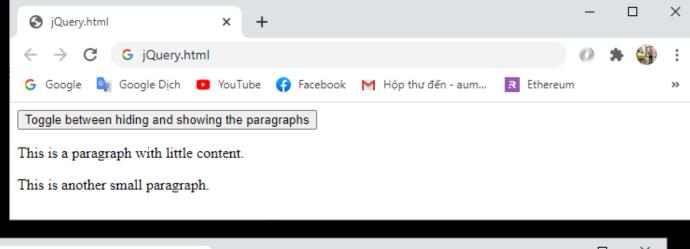
```
<button>Hide</button>
This is a paragraph with little content.
This is another small paragraph.
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").hide(1000);
  });
                                        jQuery.html
});
                                                G jQuery.html
</script>
                                                Google Dịch 🔼 YouTube 👍 Facebook M Hộp thư đến - aum...
                                        Hide
                                       This is a naragraph with little content
                                       This is another small naragraph
```

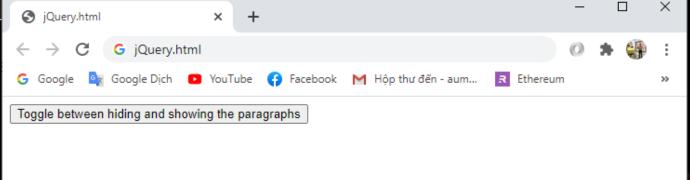
#### jQuery Efects - toggle()

```
<button>Toggle between hiding and showing the paragraphs</button>
This is a paragraph with little content.
This is another small paragraph.
```

```
<script>
$(document).ready(function(){
    $("button").click(function(){
        $("p").toggle();
    });
});
</script>
```

Shown elements are hidden and hidden elements are shown





## jQuery Efects - Fading

- With jQuery you can fade an element in and out of visibility.
- jQuery has the following fade methods
  - fadeIn()
  - fadeOut()
  - fadeToggle()
  - fadeTo()

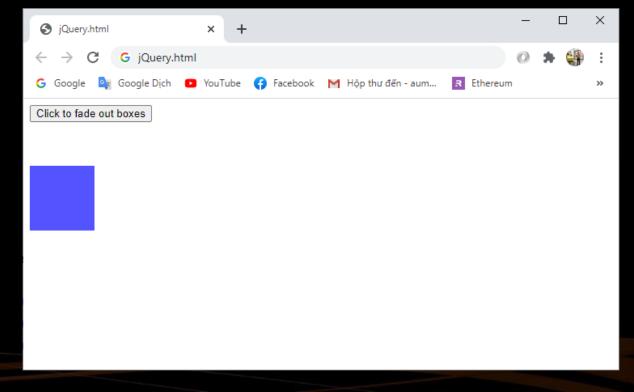
## jQuery Efects - Fading - fadeln()

```
<button>Click to fade in boxes/button><br>
<div id="div1" style="width:80px;height:80px;display:none;background-</pre>
color:red;"></div><br>
<div id="div2" style="width:80px;height:80px;display:none;background-</pre>
color:green;"></div><br>
<div id="div3" style="width:80px;height:80px;display:none;background-</pre>
color:blue;"></div>
                                                                               G jQuery.html
<script>
                                               Google Dịch 🔼 YouTube 😝 Facebook M Hộp thư đến - aum... 🕄 Ethereum
$(document).ready(function(){
                                        Click to fade in boxes
  $("button").click(function(){
    $("#div1").fadeIn();
    $("#div2").fadeIn("slow");
    $("#div3").fadeIn(3000);
  });
</script>
```

## jQuery Efects - Fading - fadeOut()

```
<button>Click to fade out boxes</button><br><div id="div1" style="width:80px;height:80px;background-
color:red;"></div><br><div id="div2" style="width:80px;height:80px;background-
color:green;"></div><br><div id="div3" style="width:80px;height:80px;background-color:blue;"></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>
```

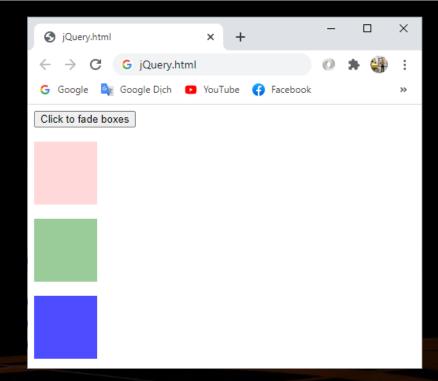
```
<script>
$(document).ready(function(){
    $("button").click(function(){
        $("#div1").fadeOut();
        $("#div2").fadeOut("slow");
        $("#div3").fadeOut(3000);
    });
});
</script>
```



## jQuery Efects - Fading - fadeToggle()

```
<button>Click to fade boxes</button><br><div id="div1" style="width:80px;height:80px;background-
color:red;"></div><br><div id="div2" style="width:80px;height:80px;background-
color:green;"></div><br><div id="div3" style="width:80px;height:80px;background-color:blue;"></div></div></div></div></div></div></div>
```

```
<script>
$(document).ready(function(){
   $("button").click(function(){
      $("#div1").fadeTo("slow", 0.15);
      $("#div2").fadeTo("slow", 0.4);
      $("#div3").fadeTo("slow", 0.7);
   });
});
</script>
```



## **jQuery Efects - Sliding**

- With jQuery you can create a sliding effect on elements.
- jQuery has the following slide methods
  - slideDown()
  - slideUp()
  - slideToggle()

#### jQuery Efects - Sliding - slideDown()

```
<div id="flip">Click to slide down panel</div>
<div id="panel">Hello world!</div>
```

```
<script>
$(document).ready(function(){
  $("#flip").click(function(){
     $("#panel").slideDown("slow");
  });
});
</script>
                                  💁 Google Dịch 🔼 YouTube 👍 Facebook
                                       Click to slide down panel
                                         Hello world!
```

```
<style>
#panel, #flip {
  padding: 5px;
  text-align: center;
  background-color: #e5eecc;
  border: solid 1px
#c3c3c3;}
#panel {
  padding: 50px;
  display: none;}
</style>
```

## jQuery Efects - Sliding - slideUp()

```
<div id="flip">Click to slide up panel</div>
<div id="panel">Hello world!</div>
```

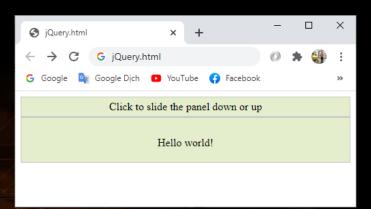
```
<script>
$(document).ready(function(){
  $("#flip").click(function(){
     $("#panel").slideUp("slow");
  });
});
</script>
                    jQuery.html
                             G jQuery.html
                             Google Dich D YouTube G Facebook
                                  Click to slide up panel
                                     Hello world!
```

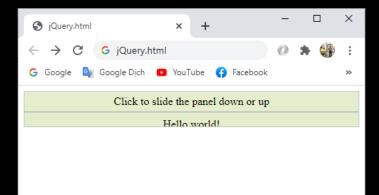
```
<style>
#panel, #flip {
  padding: 5px;
  text-align: center;
  background-color: #e5eecc;
  border: solid 1px
#c3c3c3;}
#panel {
  padding: 50px;}
</style>
```

#### jQuery Efects - Sliding - slideToggle()

```
<div id="flip">Click to slide the panel down or up</div>
<div id="panel">Hello world!</div>
```

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





```
<style>
#panel, #flip {
  padding: 5px;
  text-align: center;
  background-color: #e5eecc;
  border: solid 1px
#c3c3c3;}
#panel {
  padding: 50px;
  display: none;}
</style>
```

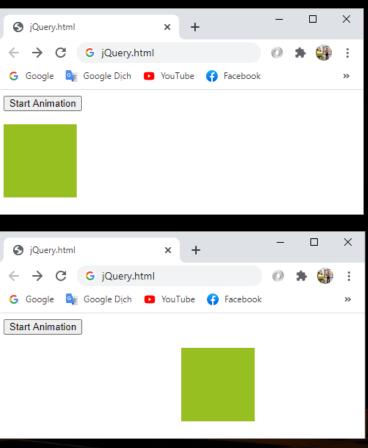
## **jQuery Effects - Animation**

- With jQuery, you can create custom animations
- Syntax
  - \$(selector).animate({params},speed,callback);

#### jQuery Effects - Animation - Example

```
<button>Start Animation/button><br/>
<div
style="background:#98bf21;height:100px;width:100px;position:absolute;">
</div>
```

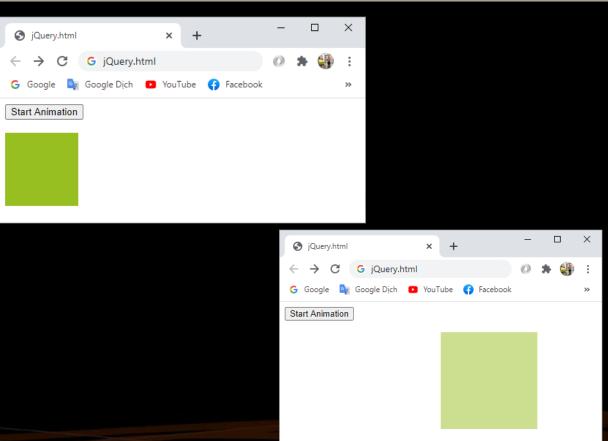
```
<script>
$(document).ready(function(){
    $("button").click(function(){
        $("div").animate({left: '250px'});
    });
});
</script>
```



#### jQuery Effects - Animation - Manipulate Multiple Properties

```
<button>Start Animation/button><br/>
<div
style="background:#98bf21;height:100px;width:100px;position:absolute;">
</div>
```

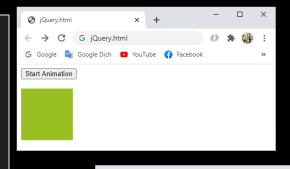
```
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("div").animate({
      left: '250px',
      opacity: '0.5',
      height: '150px',
      width: '150px'
    });
  });
</script>
```

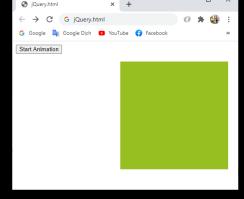


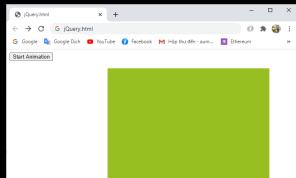
## jQuery Effects – Animation - Using Relative Values

```
<button>Start Animation/button><br/>
<div
style="background:#98bf21;height:100px;width:100px;position:absolute;">
</div>
```

```
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("div").animate({
      left: '250px',
      height: '+=150px',
      width: '+=150px'
    });
  });
</script>
```



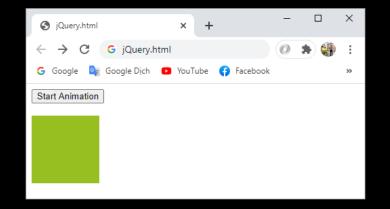


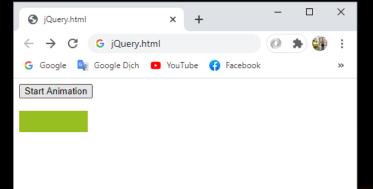


## jQuery Effects - Animation - Using Pre-defined Values

```
<button>Start Animation</button><br/><div
<br/>style="background:#98bf21;height:100px;width:100px;position:absolute;">
</div>
```

```
<script>
$(document).ready(function(){
    $("button").click(function(){
        $("div").animate({
        height: 'toggle'
        });
    });
});
</script>
```





## jQuery Effects - Animation - Uses Queue Functionality

```
<button>Start Animation</button><br/><br/>>
<div
style="background:#98bf21;height:100px;width:100px;position:absolute;">
</div>
                                                           → C G jQuery.html
                                                           Google 🌬 Google Dịch 🔼 YouTube 👍 Facebook
<script>
                                                          Start Animation
$(document).ready(function(){
  $("button").click(function(){
    var div = ("div");
    div.animate({height: '300px', opacity: '0.4'}, "slow");
    div.animate({width: '300px', opacity: '0.8'}, "slow");
    div.animate({height: '100px', opacity: '0.4'}, "slow");
    div.animate({width: '100px', opacity: '0.8'}, "slow");
  });
</script>
```

#### **jQuery Effects - Stop Animations**

- The jQuery stop() method is used to stop an animation or effect before it is finished.
- The stop() method works for all jQuery effect functions, including sliding, fading and custom animationsSyntax
- Syntax
  - \$(selector).stop(stopAll,goToEnd);

## jQuery Effects - Stop Animations - Example

```
<style>
#panel, #flip {
  padding: 5px;
  font-size: 18px;
  text-align: center;
  background-color: #555;
  color: white;
  border: solid 1px #666;
  border-radius: 3px;
#panel {
  padding: 50px;
  display: none;
</style>
```

```
<script>
$(document).ready(function(){
  $("#flip").click(function(){
    $("#panel").slideDown(5000);
  });
  $("#stop").click(function(){
    $("#panel").stop();
  });
                       jQuery.html
});
                              G jQuery.html
</script>
                            Stop sliding
                                 Click to slide down panel
                                    Hello world!
```

```
<div id="flip">Click to slide down panel</div>
<div id="panel">Hello world!</div>
```

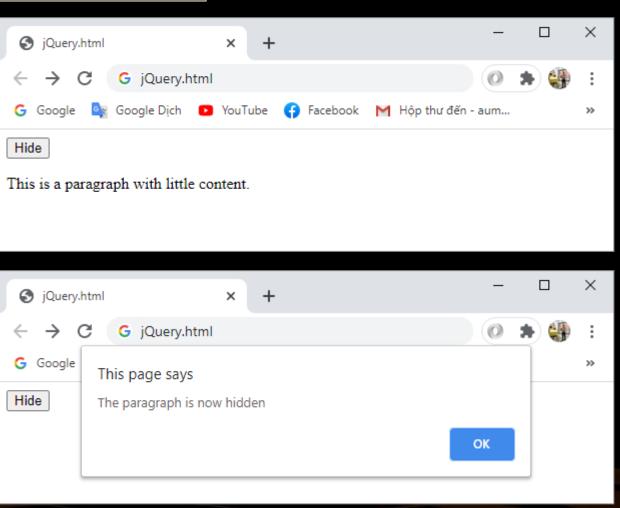
#### jQuery Effects - Callback Functions

- A callback function is executed after the current effect is 100% finished
- Syntax
  - \$(selector).hide(speed,callback);

## jQuery Effects - Callback Functions - Example

```
<button>Hide</button>
This is a paragraph with little content.
```

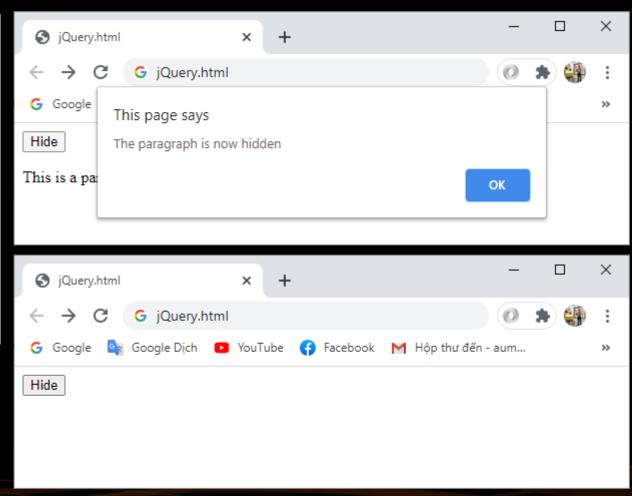
```
<script>
$(document).ready(function(){
  $("button").click(function(){
    $("p").hide("slow",
function(){
      alert("The paragraph is
now hidden");
    });
  });
</script>
```



#### jQuery Effects - Without Callback Functions - Example

```
<button>Hide</button>
This is a paragraph with little content.
```

```
<script>
$(document).ready(function(){
    $("button").click(function(){
        $("p").hide(1000);
        alert("The paragraph is now
hidden");
    });
});
</script>
```





#### jQuery: Chaining Function Calls

- In programming, the "chaining" paradigm is as follows:
  - If a method should return result -> OK, return it
  - If a method should NOT return a result -> return this
- jQuery implements the "chaining" paradigm, so methods can be chained one after another:

```
$('<button />').remove()
.addClass('btn-success')
.html('Click me for success')
.on('click', onSuccessButtonClick)
.appendTo(document.body);
```

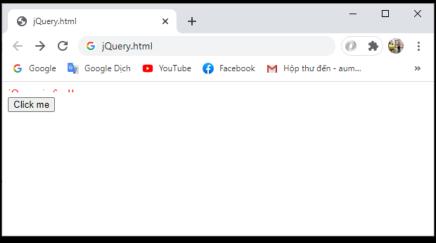
#### **jQuery Effects - Chaining**

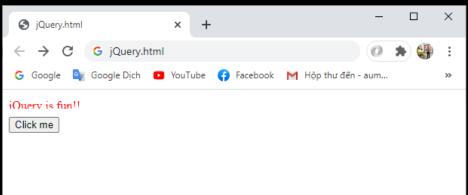
- With jQuery, you can chain together actions/methods.
- Chaining allows us to run multiple jQuery methods (on the same element) within a single statement
- Example:
  - \$("#p1").css("color", "red").slideUp(2000).slideDown(2000);

## jQuery Effects - Chaining - Example

```
jQuery is fun!!
<button>Click me</button>
```

```
<script>
$(document).ready(function(){
    $("button").click(function(){
        $("#p1").css("color",
    "red").slideUp(2000).slideDown(2
000);
    });
});
</script>
```







jQuery Plugins

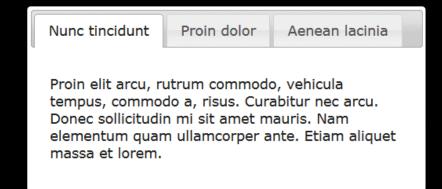
#### jQuery Plugins

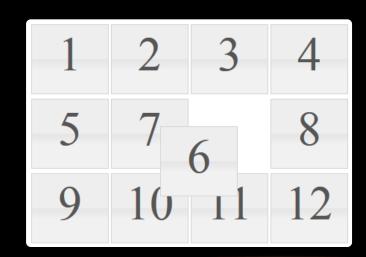
- jQuery has many ready-to-use plugins
  - E.g. the jQueryUI library for UI controls
- Plugins for UI
  - Tabs <a href="https://jqueryui.com/tabs/">https://jqueryui.com/tabs/</a>

```
$('#tabs-holder').tabs();
```

- Arrangeable elements (with drag and drop)
  - https://jqueryui.com/sortable/#display-grid

```
$('#grid').sortable();
```





#### **Creating jQuery Plugins**

```
(function($) {
  $.fn.highlight = function(className) {
    $(this).on("mouseover", function() {
      $(this).addClass(className);
    });
    $(this).on("mouseout", function() {
      $(this).removeClass(className);
    });
                 $(".item").highlight('big');
}(jQuery));
```

## Using the Highlight jQuery Plugin

```
<style>
  .item { border: 1px solid #DDD }
  .big { font-size: 1.5em; font-weight: bold; }
</style>
                                        [] jQuery Highlight Plu ×
                                          C | Q jquery-highlight-plugin.html
<span class="item">First</span>
<span class="item">Second</span>
                                        First Second Third
<span class="item">Third</span>
<script>$(".item").highlight('big');
</script>
```

#### Summary

- Effects
  - Hide/Show: \$(selector).hide/show(speed,callback);
  - Fading: fadeIn(), fadeOut(), fadeToggle(), fadeTo()
  - Sliding: slideDown(), slideUp(), slideToggle()
  - Animation: \$(selector).animate({params},speed,callback);
- Chaining function calls
- jQuery plugins





## jQuery - Effects, Chaining function calls, jQuery Plugins

