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Introduction

- jQuery is a lightweight, "write less, do more", free, open JavaScript library.
- Simplifies the task of creating highly responsive web pages
- jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

Why jQuery?

- There are lots of other JavaScript libraries out there, but jQuery is probably the most popular, and also the most extendable.
- Many of the biggest companies on the Web use jQuery, such as:
- Google
- Microsoft
- IBM
- Netflix

Adding jQuery to Your Web Pages

There are several ways to start using jQuery on your web site. You can:

- Download the jQuery library from jQuery.com
- Include jQuery from a CDN, like Google

jQuery Syntax

■ The jQuery syntax is 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)

Basic selectors

TagName

```
document.getElementsByTagName("tagName");
$("tagName") - $("div"), $("p"), $("div"),.....
```

Tag ID

document.getElementById("id");

```
$("#id") - $("#name"), $("#address")
```

Tag Class

```
document.getElementsByClassName("className");
$(".className") - $(".comment"), $(".code")
```

► To select all elements - \$("*")

.class selector finds elements with a specific class.

#id selector when you want to find

a single, unique element.

JavaScript vs jQuery

Example 1 - Hide an element with id "textbox" //javascript document.getElementById('textbox').style.display = "none"; //jQuery \$('#textbox').hide();

Introduce a jQuery function

```
$(document).ready(function(){
    //Script goes here
});
```

OR shorter method

```
$(function(){
    //Script goes here
});
```

This is to prevent any jQuery code from running before the document is finished loading (is ready).

jQuery Event Methods

- ► All the different visitors' actions that a web page can respond to are called events.
- ► An event represents the precise moment when something happens

Mouse Events	Keyboard Events	Form Events	Document/Window Events
click	keypress	submit	load
dblclick	keydown	change	resize
mouseenter	keyup	focus	scroll
mouseleave		blur	unload

jQuery Event Methods

Most DOM events have an equivalent jQuery method. For example

```
$("p").click(function(){
   // action goes here!!
});
```

The on() Method

■ The on() method attaches one or more event handlers for the selected elements.

```
$("p").on({
    mouseenter: function(){
        $(this).css("background-color", "lightgray");
    },
    click: function(){
        $(this).css("background-color", "yellow");
    }
});
```

JQuery effect

JQuery effect:

- Hide and Show,
- **■**Toggle
- **■** Fade
- **■** Slide
- **■** Animate

JQuery effect- hide and show

■ With jQuery, you can hide and show HTML elements with the hide() and show() methods

```
$(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

JQuery effect- toggle

► You can also toggle between hiding and showing an element with the toggle() method.

■ Shown elements are hidden and hidden elements are shown

\$(selector).toggle(speed,callback);

jQuery HTML

One very important part of jQuery is the possibility to manipulate the DOM.

Get/set Content - text(), html(), and val()

- text() Sets or returns the text content of selected elements
- ► html() Sets or returns the content of selected elements (including HTML markup)
- val() Sets or returns the value of form fields

Get/set Attributes - attr()

The jQuery attr() method is used to get/set attribute values.

jQuery HTML

jQuery Add New HTML Content

- append() Inserts content at the end of the selected elements
- prepend() Inserts content at the beginning of the selected elements
- after() Inserts content after the selected elements
- before() Inserts content before the selected elements

jQuery - Remove Elements

- remove() Removes the selected element (and its child elements)
- empty() Removes the child elements from the selected element

jQuery Manipulating CSS

- addClass() Adds one or more classes to the selected elements
- removeClass() Removes one or more classes from the selected elements
- toggleClass() Toggles between adding/removing classes from the selected elements
- css() Sets or returns the style attribute

jQuery AJAX

- AJAX is the art of exchanging data with a server, and updating parts of a web page without reloading the whole page.
- jQuery provides several methods for AJAX functionality.
- ► With the jQuery AJAX methods, you can request text, HTML, XML, or JSON from a remote server using both HTTP Get and HTTP Post And you can load the external data directly into the selected HTML elements of your web page!
- jQuery load() Method

\$(selector).load(URL, data, callback);

jQuery - AJAX get() and post() Methods

■ GET is basically used for just getting (retrieving) some data from the server.

```
$.get(URL, callback);
```

■ POST can also be used to get some data from the server. However, the POST method is often used to send data along with the request.

```
$.post(URL, data, callback);
```

JQuery Widgets

- a jQuery UI widget is a specialized jQuery plug-in.
- Using plug-in, we can apply behaviors to the elements.
- For example:
 - Accordion: Enable to collapse the content, that is broken into logical sections
 - Autocomplete: Enable to provides the suggestions while you type into the field.
 - Datepicker: It is to open an interactive calendar in a small overlay.
 - Progressbar: It shows the progress information.
 - Tabs: It is used to swap between content that is broken into logical sections.

JQuery Interactions

- Interactions can add basic mouse-based behaviors to any element.
- Using interactions, We can create sortable lists, resizable elements, drag & drop behaviors.

Hm...done with coding ©



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takk

thanks take domo arrigato danke esignate danke signatude danke in grattitude kitos in takk mahalo danki gracias gracias dankon gracias dankon gracias thanks in merci mahalo