

Objectives

- ◆ In this session, you will learn to:
 - ◆ Explore jQuery
 - ◆ Add visual effects using jQuery
 - ◆ Add visual effects using jQuery



◆ jQuery:

- ◆ Is an open source and cross-browser library of JavaScript codes that was created to make the JavaScript programming simpler.
- ◆ Can be used to enhance the look and feel of a Web page.
- ◆ Bridges the gap between extensive coding and Web designing.



- ◇ jQuery can be referred by downloading the light-weight jQuery JavaScript library.
- ◇ Once the library is downloaded, it can be referred to in a Web page using the following syntax:

```
<SCRIPT type="text/javascript" src="<path>/jquery-  
1.8.3.js">  
</SCRIPT>
```



- ◆ jQuery provides the `document.ready()` function for preventing failure of actions that should be performed on an HTML element.
- ◆ The following syntax is used to specify the `document.ready()` function:

```
<SCRIPT type="text/javascript">  
$(document).ready(function() {  
  // jquery code...  
});  
</SCRIPT>
```



◆ jQuery selectors:

- ◆ Are used to select and manipulate the HTML elements using the following ways:

Element name

Attribute name

CSS selectors



- ◇ jQuery provides predefined functions to perform modifications on the content of HTML elements.
- ◇ Some of the jQuery predefined functions are:

`html()`

`remove()`

`after()`

`val()`

`empty()`

`append()`

`before()`

`attr()`

`text()`

`prepend()`



- ◆ The following embedded Notepad file contains the code for modifying the inner content of HTML elements:



Inner Content

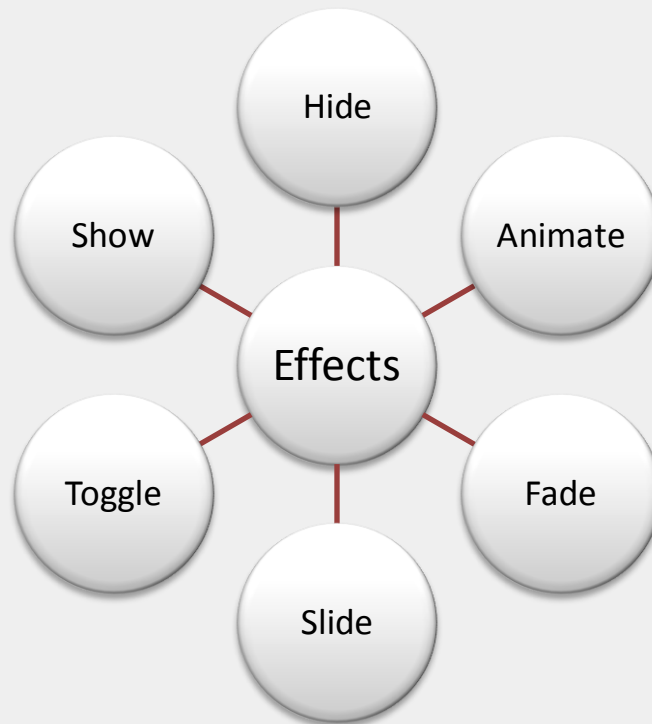


- ◆ In jQuery, events are handled by using the event methods.
- ◆ An event method is used to detect an event and trigger a function when that event occurs.
- ◆ Some of the event methods are:
 - ◆ `$(document).load(function)`
 - ◆ `$(selector).click(function)`
 - ◆ `$(selector).dblclick(function)`
 - ◆ `$(selector).mouseenter(function)`
 - ◆ `$(selector).mouseleave(function)`
 - ◆ `$(selector).keydown(function)`
 - ◆ `$(selector).submit(function)`
 - ◆ `$(selector).focus(function)`
 - ◆ `$(selector).blur(function)`
 - ◆ `$(selector).resize(function)`
 - ◆ `$(selector).unload(function)`
 - ◆ `$(selector).mousedown(function)`
 - ◆ `$(selector).mouseup(function)`



◆ Visual effects:

- ◆ Help to enrich the browsing experience of a user.
- ◆ Are used to add visual appeal to a Web page.
- ◆ Can be added using the following predefined jQuery effects:



- ◆ The `hide()` function:
 - ◆ Is used to make an element disappear when an event occurs.
 - ◆ Has the following syntax:
`$(selector).hide(speed)`
- ◆ The following embedded Notepad file contains the code to implement the hide effect:



Hide Effect



- ◆ The `show()` function:
 - ◆ Is used to make a hidden element visible when an event occurs.
 - ◆ Has the following syntax:

```
$(selector).show(speed)
```
- ◆ The following embedded Notepad file contains the code to implement the show effect:



Show Effect



- ◆ The `toggle()` function:
 - ◆ Can be used to switch between the show and hide effects of an element.
 - ◆ Has the following syntax:
`$(selector).toggle(speed)`
- ◆ The following embedded Notepad file contains the code to implement the toggle effect:

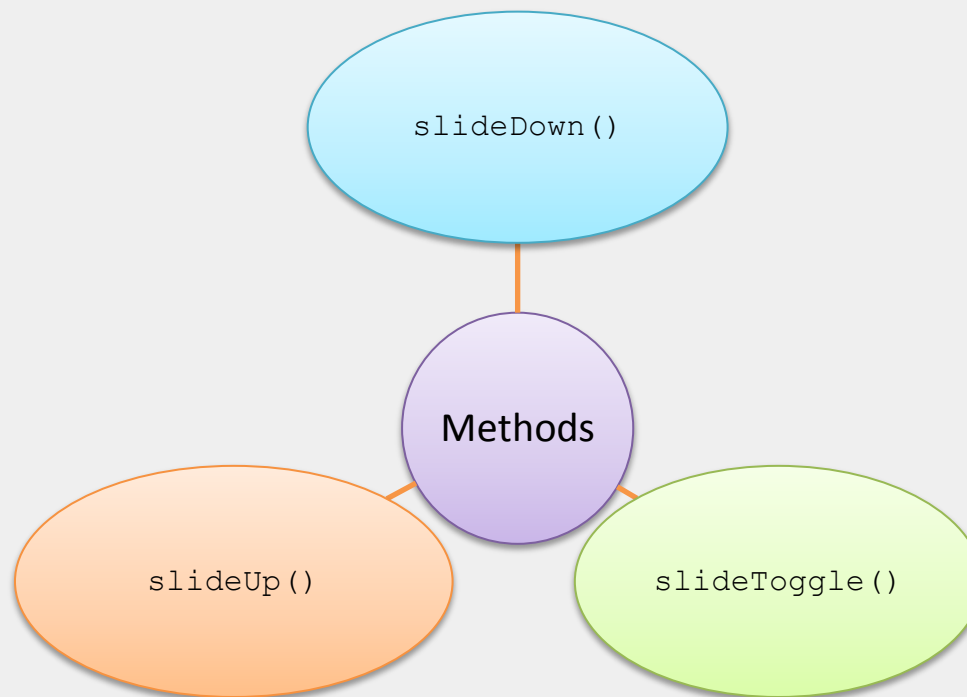


Toggle Effect



◆ The slide effect:

- ◆ Can be used to produce a sliding effect on the selected elements.
- ◆ Can be implemented using the following functions:



- ◆ The following embedded Notepad file contains the code to implement the slide effect:

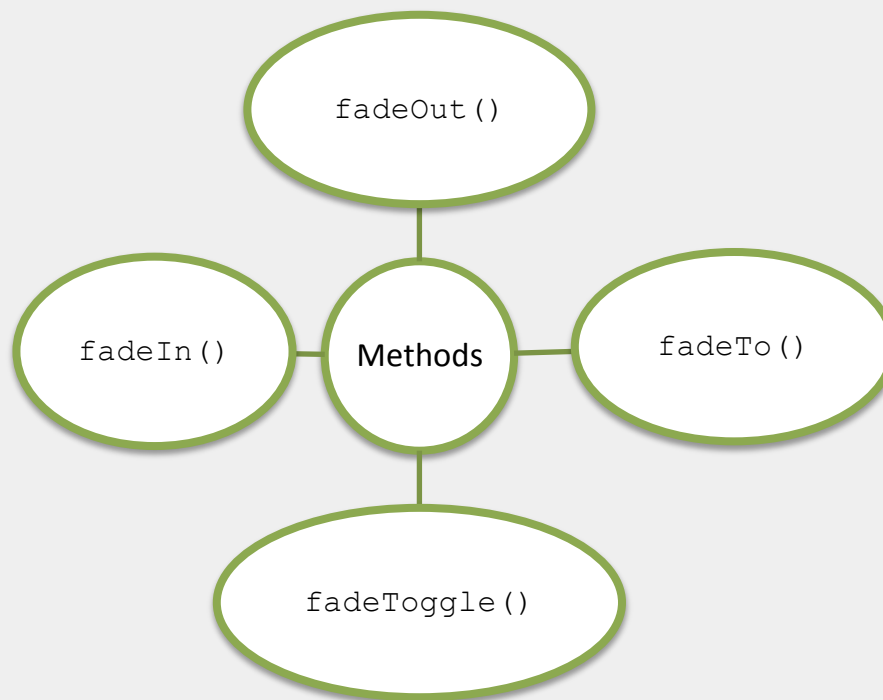


Slide Effect



◆ The fade effect:

- ◆ Is used to gradually reduce the opacity of the selected elements.
- ◆ Can be implemented using the following functions:



- ◆ The animate effect:
 - ◆ Is used to create custom animations.
 - ◆ Is implemented using the `animate()` function having the following syntax:

```
animate({params}, speed, callback);
```
- ◆ The following embedded Notepad file contains the code to implement the animate effect:



Animate Effect



- ◆ In this session, you learned that:
 - ◆ The fade effect is used to gradually reduce the opacity of the selected elements.
 - ◆ The animate effect is used to create custom animations.
 - ◆ Image rollover is an effect in which the appearance of an image changes when the mouse pointer is placed or moved on it.
 - ◆ The backward compatible rollover helps capture mouse events on images in all the browsers.



◆ In this session, you learned that:

- ◆ jQuery is an open source and cross-browser library of JavaScript codes that was created to make the JavaScript programming simpler.
- ◆ jQuery can be referred by downloading the light-weight jQuery JavaScript library.
- ◆ jQuery provides the `document.ready()` function for preventing failure of actions that should be performed on an HTML element.
- ◆ jQuery selectors are used to select and manipulate the HTML elements.
- ◆ An event method is used to detect an event and trigger a function when that event occurs.
- ◆ Visual effects help to enrich the browsing experience of a user.
- ◆ The `hide()` function is used to make an element disappear when an event occurs.
- ◆ The `show()` function is used to make a hidden element visible when an event occurs.
- ◆ The `toggle()` function can be used to switch between the show and hide effects of an element.
- ◆ The slide effect can be used to produce a sliding effect on the selected elements.

