- 1. HTML to define the content of web pages
- 2. CSS to specify the layout of web pages
- 3. JavaScript to program the behavior of web pages

JavaScript is one of the 3 languages all web developers must learn:

jQuery

jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.



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 and put in your server folder <head> <script src="jquery-3.3.1.min.js"></script> </head>

Link to it in the head of the document from jQuery.com:

<script src="http://code.jquery.com/jquery-3.3.1.min.js"></script>

Link to it from a CDN, like Google:

<script src="http://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>



jQuery Syntax

The jQuery syntax is tailor-made for some action on the element(s).

Basic syntax is: \$(selector).action()

A \$ sign to define/access jQueryA (selector) to "query (or find)" HTML elementsA jQuery action() to be performed on the element(s)

Examples:

\$(this).hide() - hides the current element.
\$("p").hide() - hides all elements.
\$(".test").hide() - hides all elements with class="test".
\$("#test").hide() - hides the element with id="test".

The jQuery syntax is tailor-made for selecting HTML elements and performing

Document Ready Function

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

It is good practice to wait for the document to be fully loaded and ready before working with it. This also allows you to have your JavaScript code before the body of your document, in the head section.

\$(document).ready(function(){

// jQuery methods go here...

});

jQuery Selectors

jQuery selectors allow you to select and manipulate HTML element(s).

jQuery selectors are used to "find" (or select) HTML elements based on their name, id, classes, types, attributes, values of attributes and much more. It's based on the existing CSS Selectors, and in addition, it has some own custom selectors.

All selectors in jQuery start with the dollar sign and parentheses: ().

Element Selector

The jQuery element selector selects elements based on the element name. You can select all elements on a page like this: \$("p")

When a user clicks on a button, all elements will be hidden:

\$(document).ready(function(){ \$("button").click(function(){ **\$("p").hide();** });

Events All the different visitors' actions that a v

An event represents the precise moment when something happens.

Examples:

moving a mouse over an element selecting a radio button clicking on an element

The term "fires/fired" is often used with events. Example: "The keypress event is fired, the moment you press a key".

All the different visitors' actions that a web page can respond to are called events.



Mouse Events click dblclick mouseenter mouseleave

Keyboard Events keypress keydown keyup

Form Events submit change focus blur

Document/Window Events load resize scroll unload



Events To assign a click event to all paragraphs on a page, you can do this: \$("p").click();

The next step is to define what should happen when the event fires. You must pass a function to the event:

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

```
common example:
$("button").click(function(){
  $(this).hide();
});
```

Effects Hide, Show, Toggle, Slide, Fade, and Animate.

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. (more advanced)



\$("#hide").click(function(){ **\$("p").hide();** });



\$("#show").click(function(){ \$("p").show(); });

Event

Event

Effect