

jQuery

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What is JQuery?

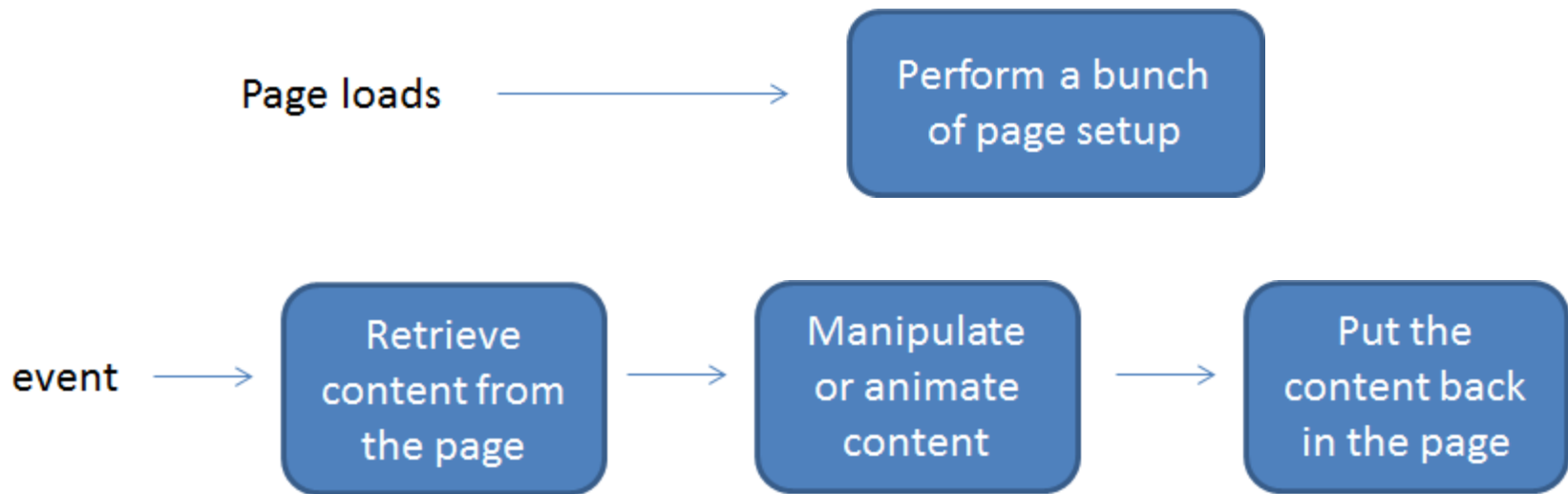
- Is a free, open JavaScript library
- Simplifies the task of creating highly responsive web pages
- Works across modern browsers
- Abstracts away browser-specific features, allowing you to concentrate on design

What is jQuery?

- Focuses on simplifying common scripting tasks
 - Getting and manipulating page content
 - Working with the modern browser event model
 - Adding sophisticated effects

What is jQuery?

- Most modern web development scenarios involve common patterns



- jQuery makes these scenarios easy

Benefits of using jQuery

- Leverages your existing knowledge of CSS
- Works with sets of elements
- Performs multiple operations on a set of elements with one line of code (known as statement chaining)
- Hides various browser quirks (so, you can concentrate on the end result)
- Is extensible (so, you can use third-party-plugins to perform specialized tasks, or write your own)

jQuery browser compatibility

- Currently compatible with modern versions of all the main browsers in use today

Browser	Works with	Known issues with
Internet Explorer	6.0 and greater	1.0 through 5.x
Safari	3 and greater	1.0 through 2.1
Chrome	1 and greater	N/A
Firefox	2 and greater	1.0.x
Opera	9 and greater	1.0 through 8.x

Downloading and installing jQuery

- jQuery comes with two versions: Production (which is compressed and minified) and Development
- Typically, you download both versions, and then use each one for its intended purpose

<http://jquery.com/>

jQuery is a new kind of JavaScript Library.

jQuery is a fast and concise JavaScript Library that simplifies HTML document traversing, event handling, animating, and Ajax interactions for rapid web development. **jQuery is designed to change the way that you write JavaScript.**

✓ [Lightweight Footprint](#) ✓ [CSS3 Compliant](#) ✓ [Cross-browser](#)

GRAB THE LATEST VERSION!

CHOOSE YOUR COMPRESSION LEVEL:

- PRODUCTION (29KB, Minified and Gzipped)
- DEVELOPMENT (207KB, Uncompressed Code)



Download(jQuery);

Current Release: **v1.5**

Creating a simple jQuery-enabled page

- For the first jQuery example, we are going to keep things simple:
 - Include a reference to the jQuery library
 - Write an event handler that responds to the page loading in the browser window
 - Display an alert that indicates that the event handler was called and that jQuery is therefore working

Creating a simple jQuery-enabled page

- Typically, the code you want to execute when the page is loaded is written like this:

```
function runOnLoad() {  
  alert("the page just loaded!");  
}  
window.onload = runOnLoad;
```

- The onload event only fires after all of the page content has downloaded, including images
- It is also harder to add multiple load functions

Creating a simple jQuery-enabled page

- jQuery provides a way to run code, when the DOM of the page is ready
- This is called the `document.ready` event
- The `document.ready` event is written like this:

```
$( "document" ).ready( function () {  
    alert("the page just loaded!");  
});
```

- This code will now execute, when the DOM has loaded, instead of waiting for all the page content finish downloading.
- Also, you can call the `document.ready` function multiple times, and jQuery will chain together each one to be called in succession

DEMO



Overview of jQuery features

- jQuery's features break down across eight major categories

Core Functionality

Implements core jQuery functions as well as commonly used utilities

Selection and Traversal

Provides functions for finding content in documents and navigating among the contents of the document

Manipulation & CSS

Provides functions for editing and changing documents content and working with CSS data such as positioning info

Events

Simplifies working with the modern DOM events and provides common event helper functions

Effects

Provides functions for creating basic animations and effects, such as hiding and showing elements and moving objects around

Ajax

Provides utilities for working with Ajax, such as loading content from pages and dealing with JSON data

User Interface

Provides an official plug-in with commonly used interface widgets, like slider controls, progress bars, accordions, etc

Extensibility

Enables the construction of jQuery plug-ins that enhance the functionality of the base library

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