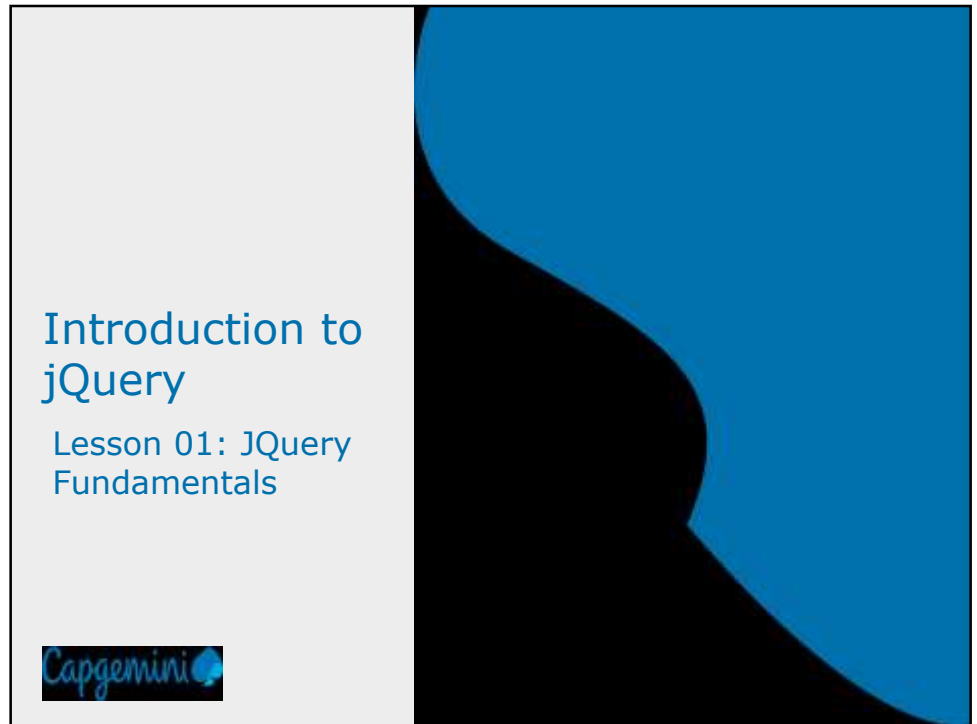


**Instructor Notes:**



## Instructor Notes:

Explain the lesson coverage

## Lesson Objectives

- jQuery Introduction
- Why jQuery?
- About jQuery.com
- Using jQuery
- Using Content Delivery Network(CDN)



Instructor Notes:

Additional notes for instructor

1.1: jQuery Introduction

How webpage works

The diagram illustrates the process of how a webpage works, showing the flow from the browser loading the HTML file to the final rendered page.

1. The browser loads the HTML File from the server.

2. Browser layout engine goes through HTML and CSS to build the document using HTML DOM and the browser displays the rendered page.

3. JS interpreter reference DOM to make change without reloading the webpage.

Add the notes here.

## Instructor Notes:

Additional notes for  
instructor

1.1: jQuery Introduction



## jQuery Introduction

- jQuery is a JavaScript library (single file)
- It supports cross browser
- Select HTML elements
- Handle Events
- Animate HTML elements
- Make Ajax calls
- 1000's of plug-ins available

## Instructor Notes:

Additional notes for  
instructor

1.2: Why jQuery?

## Why jQuery?



- JavaScript is great for a lot of things especially manipulating the DOM but it's pretty complex stuff.
- jQuery abstracts away a lot of the complexity involved in dealing with the DOM, and makes creating effects super easy.
- It can locate elements with a specific class
- It can apply styles to multiple elements
- It solves the cross browser issues
- It supports method chaining
- It makes the client side development very easy


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Instructor Notes:

Additional notes for instructor

1.3. About jQuery.com

jquery.com (Official Website for jQuery)



write less, do more.

Download

API Documentation

Blog

Plugins

Browser Support

Search

Q




**Lightweight Footprint**  
Only 27KB minified and gzipped.  
Can also be included as an AMD module.



**CSS3 Compliant**  
Supports CSS3 selectors to find elements as well as to style properly.



**Cross-Browser**  
IE, Firefox, Safari, Opera, Chrome, and Node.js.



**Download jQuery**  
v1.12.1 or v2.2.1

[View Source on GitHub](#)  
[How jQuery Works](#)

What is jQuery?

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

Resources

- [jQuery Core API Documentation](#)
- [jQuery Learning Center](#)
- [jQuery Blog](#)
- [Contribute to jQuery](#)

Add the notes here.

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## Instructor Notes:

Additional notes for instructor

### 1.4. Using jQuery

## Using jQuery



```
<html>
<head>
<title>Test jQuery</title>
<script type="text/javascript" src="jquery-1.12.3.js"></script>
<script type="text/javascript">
    $(document).ready(function(){
        alert('Hi'); });
</script>
</head>
<body>
    jQuery Enabled
</body>
</html>
```

ready() method is called after the DOM has been initialized

The handler passed to .ready() is guaranteed to be executed after the DOM is ready, so this is usually the best place to attach all other event handlers and run other jQuery code. When using scripts that rely on the value of CSS style properties, it's important to reference external stylesheets or embed style elements before referencing this scripts., the new handler passed in will be executed immediately.

## Instructor Notes:

Additional notes for instructor

### 1.4. Using jQuery

## Window.load & Document.ready

#### ➤ \$(window).load

- Is standard event (Onload) in the DOM
- Occurs after all content (e.g. images, css, frames, etc.) also has been loaded
- Ex `$(window).load(function() {});`

#### ➤ \$(document).ready

- Is specific event to jQuery
- Occurs after the HTML document has been loaded
- Is jQuery event that is fired when DOM is loaded, so it's fired when the document structure is ready.
- Ex `$(document).ready(function(){ });`

**\$(window).load** is an event that fires when the DOM and all the content (everything) on the page is fully loaded like CSS, images and frames. One best example is if we want to get the actual image size or to get the details of anything we use it.

**\$(document).ready()** indicates that code in it need to be executed once the DOM got loaded and ready to be manipulated by script. It won't wait for the images to load for executing the jQuery script.

The purpose of the ready event is that it should occur as early as possible after the document has loaded, so that code that adds functionality to the elements in the page doesn't have to wait for all content to load.



## Instructor Notes:

Additional notes for  
instructor

### Demo

➤ [jQuery-Intro.html](#)



noConflict method :

Many JavaScript libraries use \$ as a function or variable name, just as jQuery does.

In jQuery's case, \$ is just an alias for jQuery, so all functionality is available without using \$. If we need to use another JavaScript library alongside jQuery,

we can return control of \$ back to the other library with a call to \$.noConflict

## Instructor Notes:

Additional notes for instructor

1.5: Content Delivery Network(CDN)



## Content Delivery Network(CDN)

### ➤ Script can be also accessible from

- Microsoft - <http://ajax.aspnetcdn.com/ajax/jquery/jquery-1.12.3.min.js>
- jQuery - <http://code.jquery.com/jquery-1.12.3.min.js>
- Google - <http://ajax.googleapis.com/ajax/libs/jquery/1.12.2/jquery.min.js>

### ➤ A CDN short for Content Delivery Network distributes static content across servers. When a user's browser resolves the URL for these files, their download will automatically target the closest available server in the network.

### ➤ A CDN short for Content Delivery Network distributes static content across servers in various, diverse physical locations. When a user's browser resolves the URL for these files, their download will automatically target the closest available server in the network.

### ➤ If jQuery is hosted locally then users must download it at least once. User probably already has dozens of identical copies of jQuery in their browser's cache, but those copies of jQuery are ignored when they visit your site. Even if someone visits hundreds of sites using the same CDN hosted version of jQuery, they will only need download it once!

## Instructor Notes:

Additional notes for  
instructor

### Lab

- 1.1: Creating jQuery Page
- 1.2: Accessing jQuery Script from CDN



Add the notes here.

## Instructor Notes:

Additional notes for  
instructor

### Summary

- jQuery is a cross browser java script library
- Available at <http://www.jquery.com>
- Provide a robust way to manipulate DOM elements
- The `ready()` function detects when the DOM hierarchy is loaded
- `Window.load` event fires when the DOM and all the content on the page is fully loaded.



Add the notes here.

## Instructor Notes:

Answers

Questions 1: A

Questions 2: B

## Review Question

➤ Which sign does jQuery use as a shortcut for jQuery?

- \$ Sign
- % Sign
- # Sign
- ? Sign

➤ Which jQuery function is used to prevent code from running, before the document is finished loading?

- \$(document).load()
- \$(document).ready()
- \$(body).onload()



Add the notes here.