

# Diploma in Web Development – Part II



Front-End Development – Week 3  
jQuery

Presented by:  
**Julian Quirke**  
Web Development Educator





## Object-Oriented JavaScript

- Object-Oriented Programming
- Properties & Methods
- Building a Prototype Object
  
- Summary
- Q&A





# Today's Lesson

---

## JQuery

- JQuery: The JavaScript Library
- Getting Started with JQuery
- Event Handling
- Summary
- Q&A

AGENDA





# Let's Begin!

---



# JQuery: The JavaScript Library

---

## JQuery





## JQuery

is a Javascript library that can be used to simplify event handling, HTML document traversal, AJAX, and animation



# JQuery: The JavaScript Library

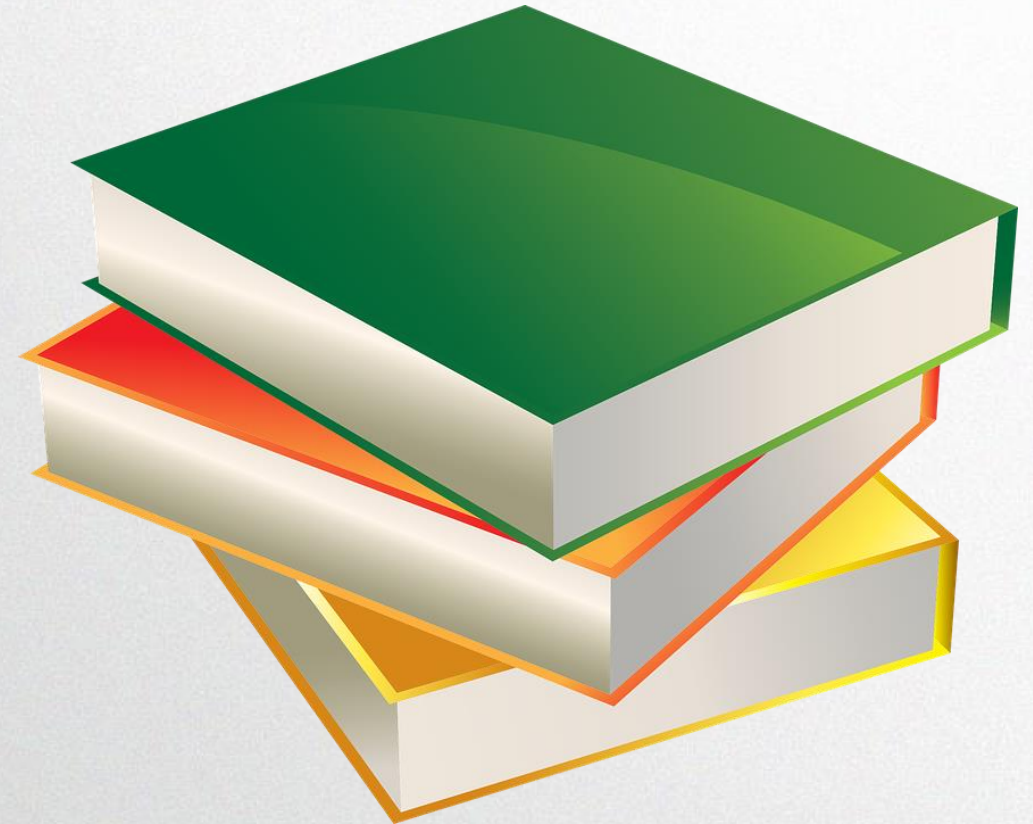
## What is a Library?

Set of declared functions/methods

Can be called at any time in your code

Can be a general toolbox, or...

Can offer functionality for a specific task





# JQuery: The JavaScript Library

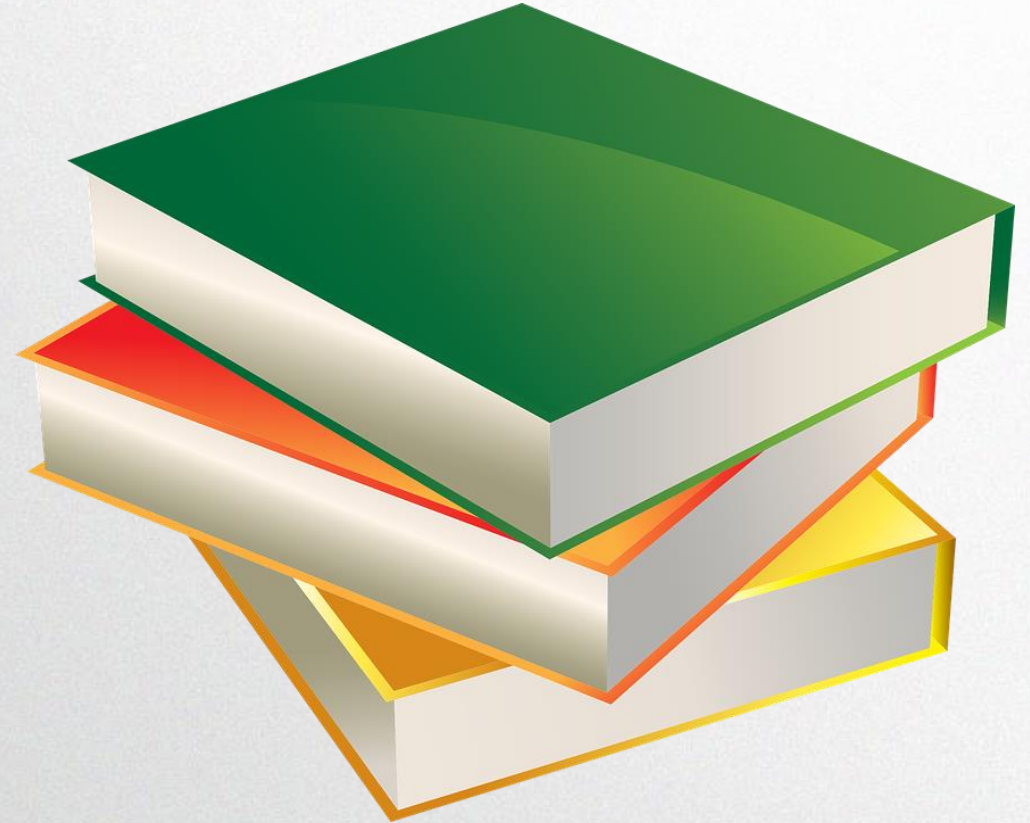
## JavaScript Libraries

React – User Interfaces

Three – 3D Library

Chart – Charts with Canvas

JQuery





# JQuery: The JavaScript Library

---



# JQuery: The JavaScript Library

To call JQuery methods on HTML elements, we need to wrap the object in a JQuery object using the following class method:

```
JQuery ();  
$ ();
```

(Note: \$ is an alias for JQuery)

Elements are selected based on JQuery parameters:

```
$ ("p"); //Elements  
$ (".class"); //"." prefix for classes  
$ ("#id"); //"#" prefix for ids
```





# JQuery: The JavaScript Library

## Vanilla vs JQuery

```
document.getElementsByTagName("p");  
document.getElementsByClassName("class");  
document.getElementById("id");
```

versus:

```
$("p"); //Elements  
$(".class"); //"." prefix for classes  
$("#id"); //"#" prefix for ids
```





## Demo





## Event



## Event

is an occurrence recognised by an application that can then be handled by it.





# Introduction to Events

## What Creates an Event?

- System trigger
  - E.g. “Window has loaded”
- User Interaction
  - E.g. “Mouse clicked”





## Event Handling(!) With JavaScript (A Quick Look)





# Today's Lesson

---

## JQuery

- ✓ JQuery: The JavaScript Library
  - ✓ Getting Started with JQuery
  - ✓ Event Handling
- 
- Summary
  - Q&A



- The next session is “AJAX & Event Handling”
  - What is User Experience?
  - Introduction to AJAX
  - AJAX & JQuery Demonstration
  
- Recordings are available within 24 hours after the live webinar
  
- Go to [www.shawacademy.com](http://www.shawacademy.com) and then the Top Right Corner – **Members Area**





Next Lesson is

## AJAX & Event Handling

- Learn about powerful tools available in JavaScript to **dynamically request** web content without disrupting user experience
- You will understand how to create **AJAX queries** in response to events



[www.shawacademy.com](http://www.shawacademy.com)



[www.facebook.com/shawacademy](http://www.facebook.com/shawacademy)



[www.twitter.com/shawacademy](http://www.twitter.com/shawacademy)



[support@shawacademy.com](mailto:support@shawacademy.com)

