

# Diploma in Web Development – Part II



## Front-End Development – Week 4 AJAX & Event Handling

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## JQuery

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





# Today's Lesson

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## AJAX & Event Handling

- What is User Experience?
- Introduction to AJAX
- AJAX & JQuery Demonstration
- Summary

AGENDA





# Let's Begin!

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# What is User Experience?

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## User Experience (UX)





## User Experience (UX)

is the overall experience of a user of a web or computer application, particularly in terms of **ease of use** and **pleasure**



# What is User Experience?

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- Look
- Feel
- Usability

***UX***





# What is User Experience?

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Wait a minute...

- Domain of design?
- How does JavaScript help?
- **Development meets Design**

**UX**





# What is User Experience?

## For Developers

- Reduce loading times
- Create seamless interactions
- Positive **Experience**



## Asynchronous JavaScript And XML





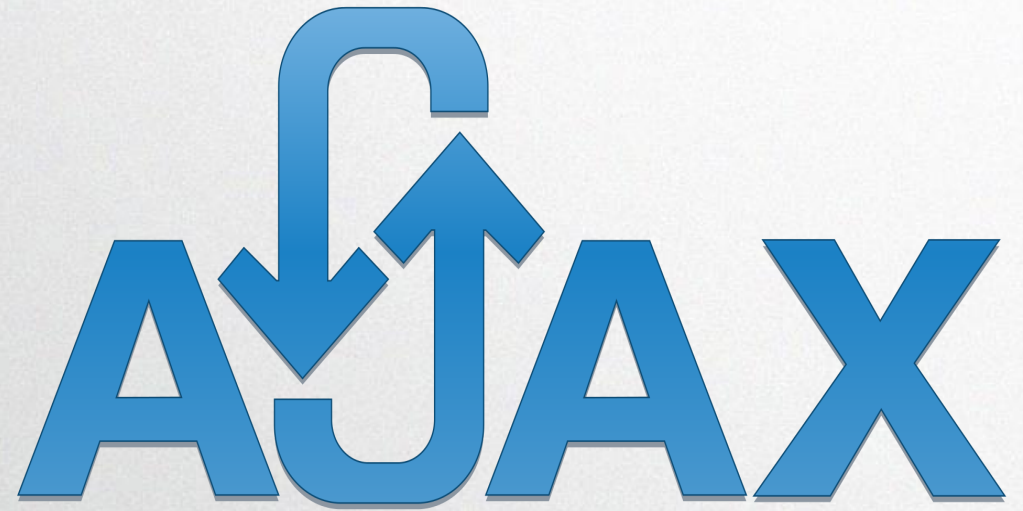
## Asynchronous JavaScript And XML

is a script that is run on the front end that can exchange data with a server and update sections of a web page *without* reloading the entire page



## Why Use AJAX

- **Callbacks:** use less network bandwidth
- **Asynchronous Calls:** allows user to act before all the data has arrived
- **User-Friendly:** AJAX applications are more responsive & dynamic
- **Increased Speed:** sending information to the server doesn't disrupt the user experience (UX)

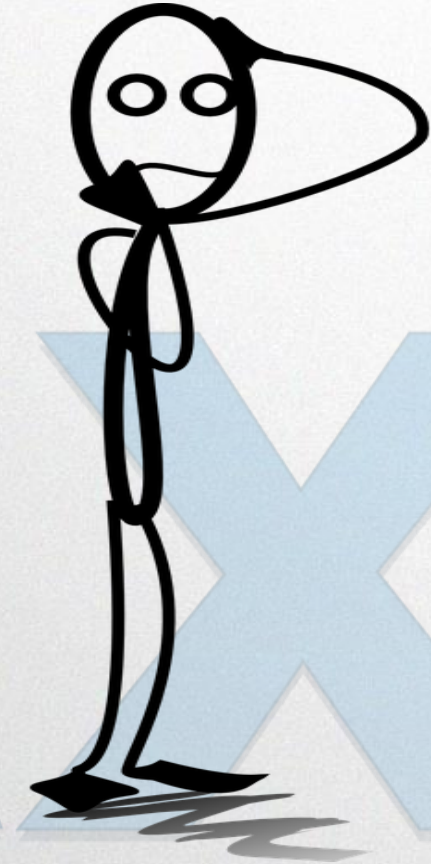




# Introduction to AJAX

## How does AJAX work?

1. Basic HTML Page is loaded
2. Event triggers a JavaScript (AJAX) function call
3. The Javascript function retrieves information from another document on the server
4. New information inserted into current HTML page



# Introduction to AJAX

## AJAX with JQuery

```
//In JQuery:  
$("#index").on("click", function() {  
    $("#main").load("index.html #myId", completeFunction);  
});
```





## Note:

- AJAX has evolved since its inception
- It is not necessary to know XML for AJAX
- Can understand different data types including **JSON**, **XML**, **HTML**, & plain text
- Cross origin requests are *not* allowed by JavaScript
  - Must be run from a server



# AJAX & JQuery Demonstration

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AJAX

Demo





## AJAX & Event Handling

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## PHP Development Semester

- The next session is “Object Oriented PHP”
  - Getting Started with PHP
  - Classes & Objects
  - Properties & Methods
  
- 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

## Object Oriented PHP

- Learn the key concepts involved in writing back-end code using PHP in order to generate dynamic content on your web application
- You will learn how to build an organised back-end using class-based architecture



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