

# WordPress Greece Online

## WordPress REST API

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For all resources, slides etc please go to:

**[wp-html.co.uk/workshop](http://wp-html.co.uk/workshop)**

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# Agenda

- Understand WP REST API, AJAX, JSON.
- How to use the FETCH API to get/post data.
- Know how to create custom WP REST API Endpoints
- Use them for GET/POST requests
- Create forms that use these endpoints
- Secure forms with WP NONCE.
- Using endpoints from other sites.

# 7 plus or minus 2

“The Magic number 7 (plus or minus two) provides evidence for the capacity of short term memory. Most adults can store between 5 and 9 items in their short-term memory. This idea was put forward by Miller (1956) and he called it the magic number 7. He thought that short term memory could hold 7 (plus or minus 2 items) because it only had a certain number of “slots” in which items could be stored.”

# Expectations

- I do a lot of courses so I know the challenges.
- View this workshop as an overview. As developers we know that some concepts take some time and effort.
- After the workshop you can use the resources to help you understand the concepts more fully.
- All code files are available and they are well documented as well as the video series.

# JavaScript, Fetch API and Promises

- The good news is that there is essentially just one JavaScript code snippet that is used over and over again.
- However, it does involve some concepts that may be new to you.
- Remember, this is an overview to show you how all the parts fit together.

# JavaScript, Fetch API and Promises

- The videos supplied and recommended will enable you to spend the necessary time to understand these more fully.
- Nonetheless, you can implement the code snippets without much understanding...I did!

# Decoupled WordPress Sites

- There are now many decoupled WP architectures...
- Most CMS cloud services have ready made WP importing of data.
- Separation between Model (data) and View (theme).
- They will depend on WP REST API or GraphQL, which is another type of API architecture.

# Trainer JS, PWAs, Web Components & RxJS



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Brighton, UK

1980: At University, I studied Chemistry and used MS-DOS, client/server main frame systems, ZX-Spectrum computer and Jupiter Ace recreationally.

Former careers as accountant, SQL Server DBA and Business Information Architect.

And a (proud) plumber!



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# WordPress REST API

- What is REST?
- This was formulated by Roy Fielding for his thesis in 2000.
- An architectural style not a protocol.
- HTTP by its nature is implicitly RESTful.
- [https://www.ics.uci.edu/~fielding/pubs/dissertation/rest\\_arch\\_style.htm](https://www.ics.uci.edu/~fielding/pubs/dissertation/rest_arch_style.htm)

# Endpoints

HTTP VERB + URL = ENDPOINT

GET/POST + same URL = 2 ENDPOINTS

<https://wpjs.co.uk/wpb/wp-json/wp/v2/posts> GET/POST/DELETE

# AJAX

AJAX = **A**ynchronous **J**avaScript **A**nd **X**ML.

Read data from a web server *without reloading the page*

Update a web page

Send data to a web server - in the background

# JSON – JavaScript Object Notation

Essentially arrays of arrays.

JSON is a lightweight format for storing and transporting data

JSON is often used when data is sent from a server to a web page

JSON is "self-describing" and easy to understand.

Data is in name/value pairs separated by commas.

# JSON – Data Types

Strings – Booleans – Numbers

Null – Object - Array

<https://wp-html.co.uk/greece/wp-json/wp/v2/posts>

# Workshop resources

The following link has the workshop manual, code and also the ability to clone the WP site.

We will go through how to clone the site.

<https://github.com/iwswordpress/WordCampGreece>

# Wrap Up

There is free online course covering what we have done today.

The link is valid for 3 days.

If you have any questions please feel free to contact me: **craig@wpjs.co.uk**