WordPress Greece Online

WordPress REST API

Craig West

For all resources, slides etc please go to:
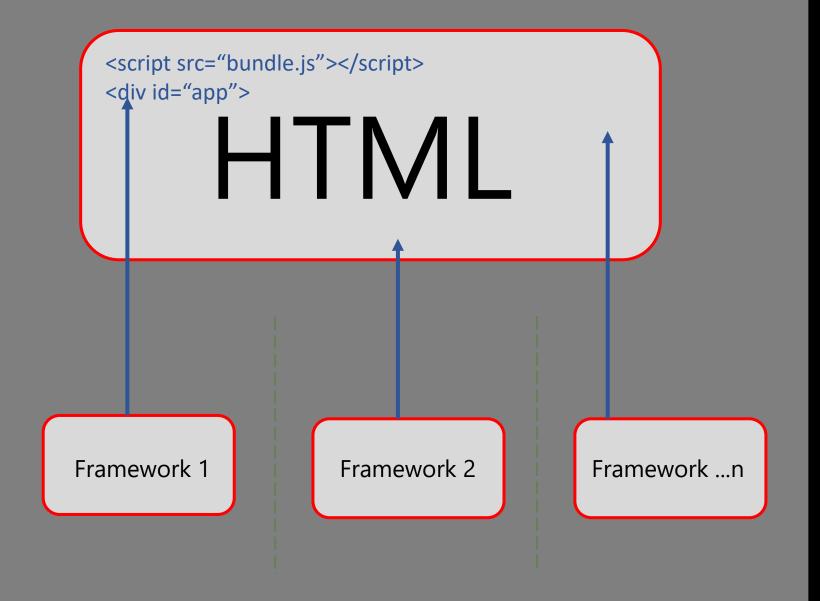
wp-html.co.uk/workshop

April 2001

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.

International JS Conference London 2018 – Key Note Speech

Online WP REST API COURSE (free)

- I have an online course with Udemy.com and you can have a free coupon.

- It covers this workshop in much more depth and detail:

- https://www.udemy.com/course/wordpress-rest-api-and-ajax-pages-and-forms-fast-track/?couponCode=GREECE2021

- COUPON: GREECE2021

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 though 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.

Implementation first approach

- Like using jQuery or any other libraries, we often use an 'implementation first' approach and later, if at all, focus on a deeper understanding.

- For this 90 minute workshop, you may need to do this for things like the FETCH API, JSON data etc.

- The code samples have full working implementation that you can break and put back to learn more.

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.
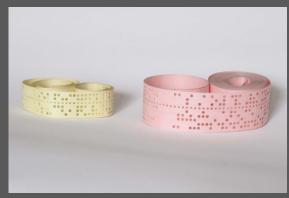
Trainer JS, PWAs, Web Components & RxJS

Source:Wikimedia Commons

Source:Wikimedia Commons

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!

Source:Wikimedia Commons

http://www.map-of-uk.co.uk/

80 km

Source:Wikimedia Commons

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

Endpoints – just another term for a URL

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**synchronous **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

{ "id": 1, "name": "Craig" }

Data is in name/value pairs separated by commas.

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.

JSON – Data Types

Strings – Booleans – Numbers

Null – Object - Array

The 'hello world of the WP REST API':

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://wp-html.co.uk/workshop - has all links.

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 – download these slides from https://wp-html.co.uk/workshop/

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