

WPooW

WordPress Object Oriented Wrapper

For rapid development of WordPress plugins and themes

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About Me

- Chido Warambwa
- Php developer by night
- Python by day (j5int)
- Love javascript (es6 upwards:P)
- Helping out is society, church stuff etc



Overview

1. WPooW?
 - a. History
 - b. What it is
2. Getting practical
 - a. Part 1
 - b. Part 2 (might not get there)



WPooW?

A story of a client

WordPress and complex sites



- Basic Configuration

- **Option 1:-** Looking and Installing appropriate Plugins and Themes
- **Option 2:-** Creating client specific Plugins/Theme



Option 1 - Looking and Installing

Developer

Advantages

- *Not much coding. Just configuration.*

Disadvantages

- *Time to find the right plugins/theme*

End User

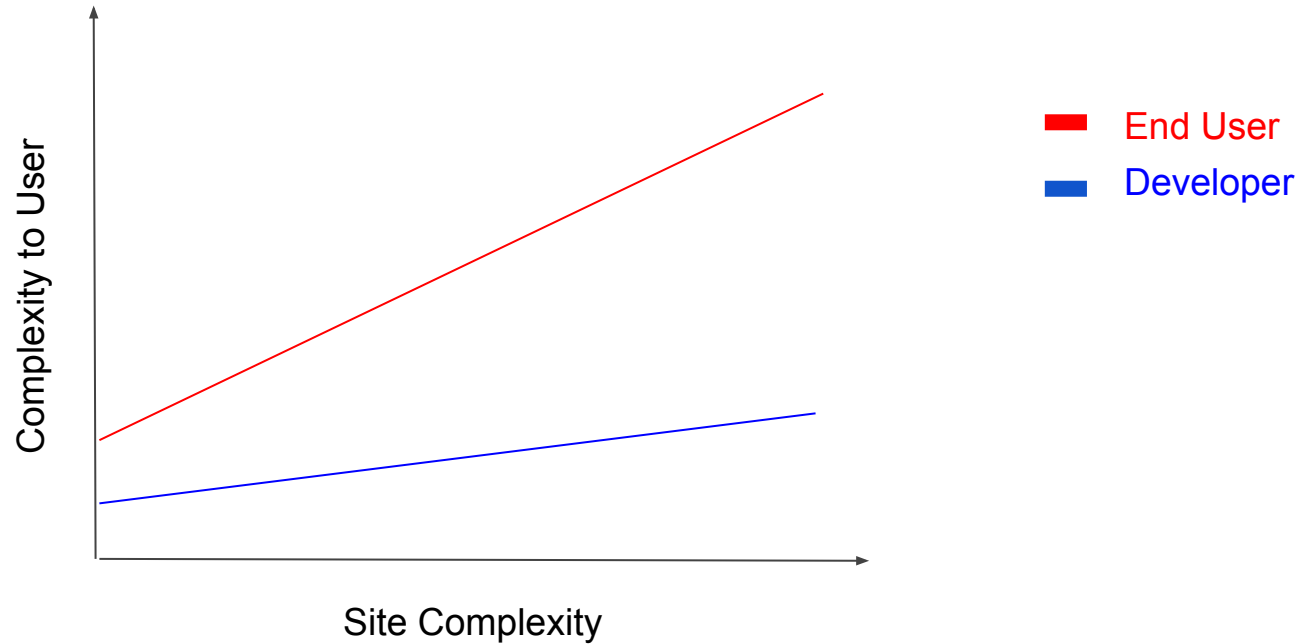
Advantages

- *Site Works*
- *Plugins well supported (but through developers)*

Disadvantages

- *Hard to maintain/Change items (to many plugins, makes it a bit confusing)*

Option 1 - Looking and Installing



Option 2 - Creating client specific Plugin/Themes

Developer

Advantages

- *Full Control. Can make it as specific as you want.*

Disadvantages

- *You have to write code.*

End User

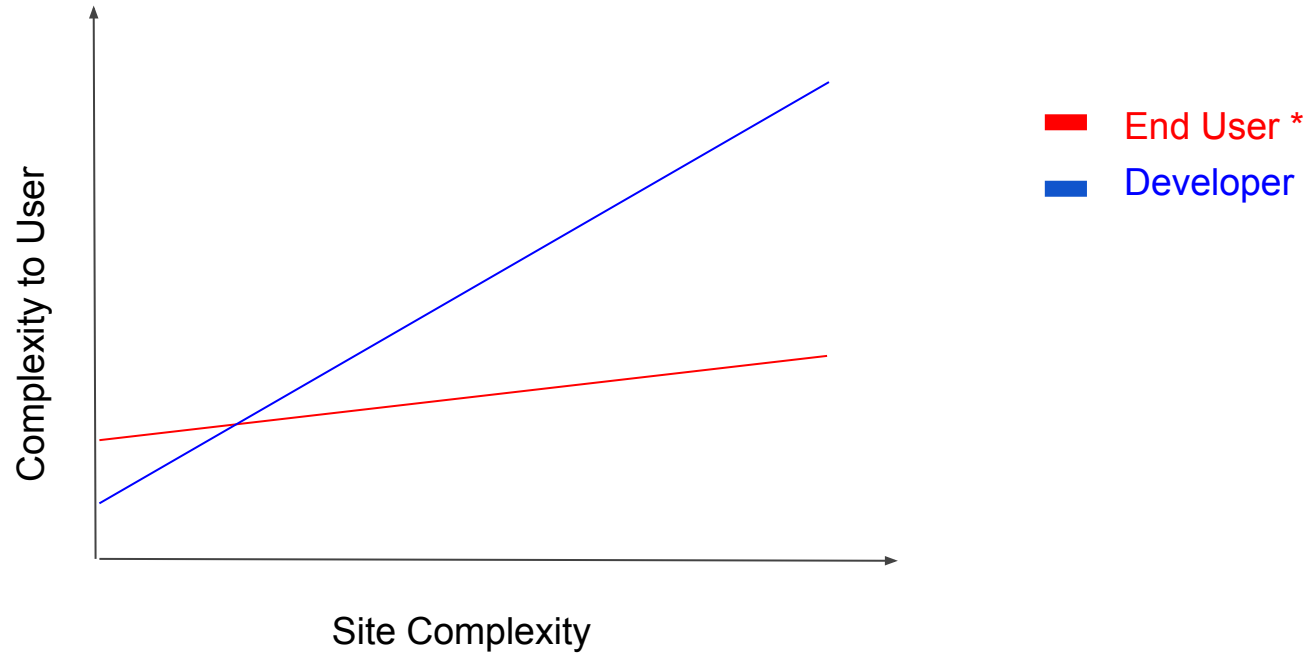
Advantages

- *Specific to their needs.*
- *More immediate support base.*

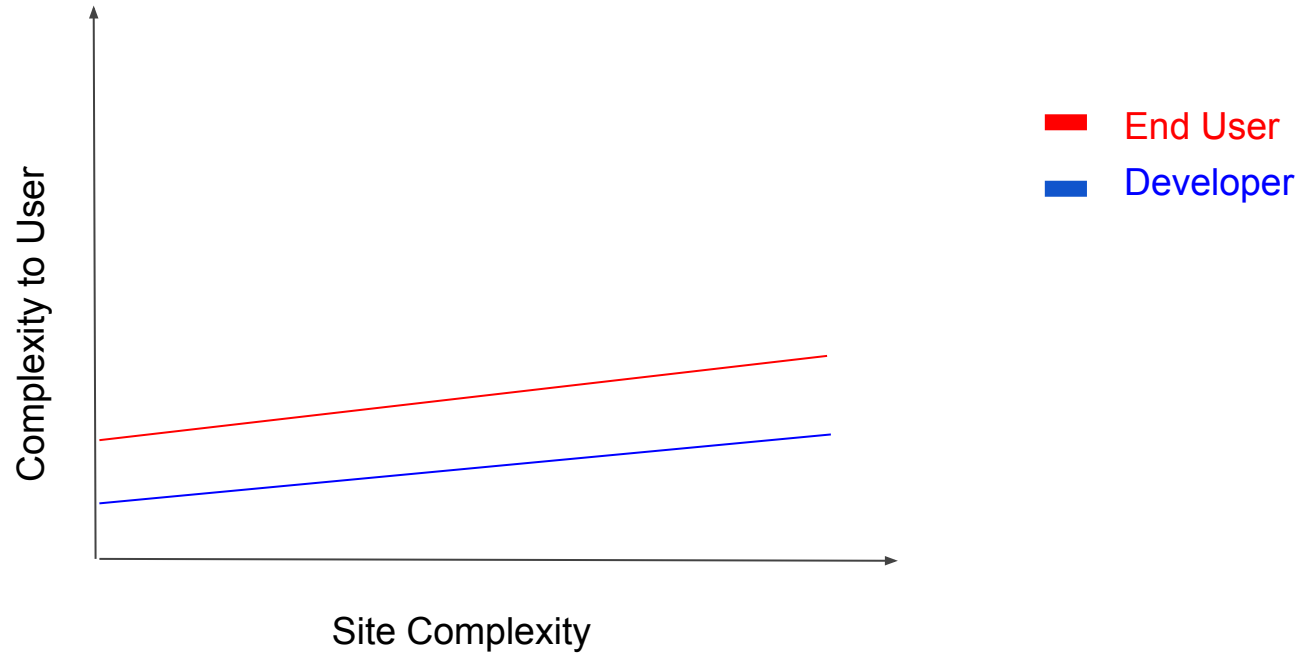
Disadvantages

- *Could miss out on better plugins/theme features.*

Option 2 - Creating client specific Plugins/Theme



Objective (is it possible?)



WPooW

- WPooW is a WordPress **Object Oriented** Wrapper aims to simplify the process of creating custom plugins and themes by providing a object-oriented api which **abstracts common tasks** associated with this.
- The goal was to create a library that would make it easy for developers to create plugins/themes, so as to empower them to meet client specific requirements.



Object Oriented Programming (OOP)

- Interacting models that have properties/methods
- Interactions governed by the 4 pillars of OOP
 - Inheritance,
 - Encapsulation
 - Abstraction,
 - Polymorphism
- Easily mappable to real life scenarios





Let's get practical - Part 1

Use Case

- WordCamp 2019 site
- Requirements
 - Have a plugin that allows us capture sponsors and speakers data easily
 - Sponsor (Name, Logo, Url, Blurb)
 - Speaker (Name, WordPress username, Picture, Blurb)
 - Need this within the hour



1.1 Setup Environment

- Working Installation of WordPress
- Download or clone the repository

<https://github.com/walisc/WPooWWorkshop.git>

- Theme (boilerplate) - wpoow_ws
- Plugin (boilerplate) - wc_content_manager
- WPooW (Built version - v1.3.5). Source <https://github.com/walisc/WPooW.git>
- Add the wpoow_ws to the theme folder and activate it
- Add the wc_content_manager folder to plugins and activate it



1.2 Setup Environment - Check

[illegible]

2. Set up WPooW

- Copy WPooW folder into the wc_content_folder
- Include and instantiate



3.1 Create PostType for sponsor's

- Create a Custom PostType for sponsor and Render
- Add a field to capture the sponsors name



3.2 Flesh Out Sponsor PostType

Filed	Id	Type
Name	_name	Text
Description	_description	TextArea
Logo	_logo	Uploader
Url	_url	Text
Sponsorship Level	_sponsorship_level	Select(options - Bronze, Silver, Gold)

Documentation:- <http://wpoow.devchid.com>

3.2 Flesh Out Sponsor PostType - Check

Add New Post

Name

Description

Logo

Filename:

Upload

Url

Sponsorship Level

Bronze ▾



3.3 Modify Sponsors menu item

- Change the icon of the sponsors menu item.



4.1 Display Data

- Replace the template code for sponsors in [wp-content/themes/wpoo_ws/index.php](#) with the saved data.



4.2 Display Data - Check




The logo for Mandor Brand Agency features the word "MANDOR" in a bold, sans-serif font at the top. Below it is a stylized graphic of two crossed arrows. At the bottom, the words "Brand Agency" are written in a cursive script.

Mandor

Mandor is a great company
that provided amazing tailor
IT service

[Find Out More!](#)



The logo for Full Spoon features three dots above the words "FULL SPOON" in a bold, sans-serif font. Below the text is a graphic of a spoon and a fork crossed.

Full Spoon

Amazing Sponsor. First time
in it



[Find Out More!](#)

5.1 Create Speakers PostType and Display Data

Filed	Id	Type
Name	_name	Text
WP username	_wp_username	Text
Description	_description	RichTextArea
Photo	_photo	Uploader
Presenting As	_presenting_as	MultiSelect(options - Developer, Entrepreneur, Techie)
Is Active	_is_active	Checkbox

* **Note:-** For displaying data use commented out template

5.2 Speakers PostType and Display Data - Check

Speakers Add New					
All (2) Published (2) Trash (0)					
Bulk Actions ▾	Apply	All dates ▾	Filter		
Name	WP username	Description	Photo	Presenting As	Is Active
Racheal Linmore	@realRache	Love blogging on new technologies. Enjoying using WordPress to this end	 Filename: speaker-02.jpg	Entrepreneur, Techie	<input checked="" type="checkbox"/>
Megs Malibu	@megMalibu	Passionate about Software. Enjoy surfing and music.	 Filename: speaker-01.jpg	Developer	<input checked="" type="checkbox"/>
Name	WP username	Description	Photo	Presenting As	Is Active
Bulk Actions ▾	Apply				

WordCamp 2019

[Home](#) [Speakers](#)

Speakers



Racheal Linmore @realRache

Love blogging on new technologies. Enjoying using WordPress to this end

Entrepreneur, Techie



Megs Malibu @megMalibu

Passionate about Software. Enjoy surfing and music.

Developer

6. Menus

- Group new PostType's into a menu which will have our plugin name



Part 2

Additional Requirements

- Add a ID field we can later link to for speakers
 - This ID field should be readonly once set
- Send email to speaker once we set them as Active
- Change choice control for sponsorship level to a slider
 - Custom control needed



7. Element Permissions

- Add additional ID field for the speaker's PostType.
- Make this ID field readonly once set on create.

```
//Default Permissions
$permissions = [
    wpAPIPermissions::AddPage => "cru",
    wpAPIPermissions::EditPage => "ru",
    wpAPIPermissions::ViewPage => "r"
]
```

8.1 Events - RegisterBeforeSaveEvent

- Since we know the format of our ID fields (sanitized version of name), can we not do this automatically?
- RegisterBeforeSaveEvent takes in a method and a class (optional) to call before saving.
- We can use this method to to modify data before saving.



8.2 Events - RegisterBeforeDataFetch

- Order speaker data by name using the RegisterBeforeDataFetch method



8.3 Events - RegisterBeforeSaveEvent

- Send email when speaker is set as active using the RegisterBeforeSaveEvent method



9.1 Custom Elements

- Change choice control for sponsorship level to a slider



9.2 Custom Element - Final look

Sponsorship Level▲

Silver

2



Go forth and clone/download/share!

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