

## Custom Website Development with WordPress

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### Class Goals:

- Introduction to customization possible through WordPress
- Walkthrough of options available through WordPress (.org vs. .com)
- Introduction to HTML/CSS/PHP

### WordPress Introduction

- WordPress is open source software
- History of WordPress, parent company Automattic
- Difference between wordpress.com and wordpress.org
- “WordPress powers over one-fifth of the web. It’s the single most popular content management system and blogging platform in the world by a significant margin.”
- Show demo WP sites that are robust
  - <https://livebouldercreek.com>
  - <https://cretcarrier.com/>
  - <http://www.lc10k.com/>

### Glossary

#### General web terminology

- CMS = Content management system – software that allows you to edit the content on your website without touching the code
- Code editor = program used to write and edit code
- Web server = a remote computer running software that servers web pages to users (for this workshop your computer is the web server)
- Web browser = an application that allows your computer to connect to the internet and view web pages (Google Chrome, Mozilla Firefox, Microsoft Internet Explorer)
- HTML = Hypertext Markup Language
  - This is the “structure” of a web page made up of tags and symbols that tell the web browser.
- CSS = Cascading Style Sheets
  - This is the style of a web page, the look and feel. This is where you define colors, fonts, etc.

- PHP = Personal Home Page
  - Programming language that provides logic and displays information from the database in an HTML format.
- MySQL = Database language for storing information on a web server

## WordPress terminology

- [Plugin](#) = code provided by someone else you can add to your WordPress site to provide additional functionality
- [Theme](#) = code that provides the look and feel of your site (images, colors, style and layout)
- Post = a blog or journal entry, can have categories and tags
- Page = a content page, e.g. “About”
- Menu = navigation/links to other parts of the site
- Widget = an item in the blog sidebar, such as “Most Recent Posts” or “Archives”
- Template = a PHP file that can be re-used to display different pages and posts

## Getting your system ready

\* Have Sublime Text installed on machines and ready for workshop

For this workshop you will need a code editor, I recommend one of the following:

- [Sublime Text 3](#) (Macintosh OS X or Windows)
- [TextWrangler](#) (Macintosh OS X)
- [Adobe Brackets](#)

To edit code you need what is known as a “plain text” editor. You can’t use a rich-text application such as Microsoft Word for writing or editing code files.

Install your development environment (i.e., MAMP from [mamp.info](http://mamp.info)) so the programming language (PHP) and database (MySQL) can run on your computer the same as it would a web server (Apache). MAMP stands for “Mac, Apache, PHP, and MySQL”. If you are a Windows user, WAMP is also available.

Follow instructions to install MAMP on your computer

Open MAMP

- Applications > MAMP > MAMP.app
- Launch the MAMP application

- Go to Preferences > PHP > select version 7.0.15 and click “OK”
- Go to Preferences > Web Server > Document Root: > select new directory to use
- If you haven’t already, click “Start Servers” button (click “Allow” if you see a dialog window appear asking about incoming connections)
- You now have a web server running at <http://localhost:8888/>. Note this is only visible on your computer, no one else can see this address. “Localhost” means “My Computer”.

## Installing WordPress

\* We will have MAMP setup and WordPress installed prior to the workshop.

1. Download WordPress application from [wordpress.org](http://wordpress.org) to edit websites locally (on your computer)
2. Unzip the WordPress application
3. Move the wordpress folder into Applications/MAMP/htdocs (the WordPress code files should be located at Applications/MAMP/htdocs/wordpress/)
4. Creating a new database:
  - a. **For MAMP Pro:**
    - i. In MAMP, click on MySQL under Servers & Services
    - ii. Double-click on phpMyAdmin
  - b. **For MAMP Free:**
    - i. Go to <http://localhost:8888/phpMyAdmin/?lang=en> in your browser
  - c. Click on the Databases tab
  - d. Enter a database name (i.e. test\_database) and click Create
5. Open a browser and go to <http://localhost:8888/wordpress/>
6. Select a language
7. Enter the database connection information
  - a. Database name (same as what you used for when you created the database, i.e., test\_database)
  - b. Username is “root”
  - c. Password is “root”
8. Give your website a name and create a username and password for this website. Since this isn’t a public website you can use something memorable like “admin” and “admin”, but I recommend using something more secure for a public-facing website.

## Tour of WordPress

- Basics of WordPress:

- Tour of the dashboard
  - Admin bar
    - Toggle between the dashboard and website view
  - Pages and Posts - what's the difference?
  - How to add a page
    - Toolbar in page editor
    - Creating content
      - Text
      - Hyperlinks
      - Images
      - Preview Changes
    - Page attributes and hierarchy
  - How to set a page as home page
    - Create a page with the title "Home"
    - Go to Settings > Reading
    - Under "Front page displays" choose "A static page" and select your page from the "Front page" drop-down menu
  - Post/blogs
    - Adding a post
    - Categories/tags
    - Featured image
  - Media
    - How to upload an image
  - Appearance
    - Overview of plugins, themes, menus, customize, widgets

## Themes

- Appearance
  - Themes
    - File structure and template files
    - Download themes and place on your computer
    - [Creating child themes](#) (best-practice)
    - <https://wordpress.org/themes/>
  - Customizer
    - Change and image/logo
  - Widgets
  - Menus

- Edit menu, add page(s)

## Plugins

- Download a plugin (here we're going to download Contact Form 7)
  - <https://wordpress.org/plugins/contact-form-7/>
- Placing the plugin
  - Unzip the file
  - Copy the folder to Documents/WordPress/.../wp-content/plugins/
- Activating the plugin
  - Go to Plugins
  - The plugin should appear in the list, click "Activate"
- A new menu item will appear on the left sidebar called "Contact", click to open the settings page to create and modify forms
- Copy the shortcode [contact-form-7 id="4" title="Contact form 1"]
- Create a new page called "Contact"
- Paste shortcode onto the page

## Coding

- Exercises:
  - Using the browser developer tools - inspect an element and remove a border or something, modify the twentyseventeen theme ([https://codex.wordpress.org/Finding\\_Your\\_CSS\\_Styles](https://codex.wordpress.org/Finding_Your_CSS_Styles))
  - Specific exercises:
    - Social media profile icons
    - Embedding video and audio

## Introduction to PHP, HTML & CSS

Visit <http://localhost:8888/omf-wordpress-workshop/> in your web browser. You should see a page that says "Welcome!" at the top

In Finder go to Documents > Sites

Click and drag the folder “omf-wordpress-workshop” down to the toolbar and open in the application Sublime Text

## Hosting and Additional Resources

- Maybe – web hosting, uploading via FTP
  - <https://wpengine.com/>
- Additional resources
  - <https://www.w3schools.com/tags/>
  - <https://www.w3schools.com/cssref/>
  - freecodecamp.com
  - Codeacademy.org
  - Code.tutsplus.com
  - [https://codex.wordpress.org/WordPress\\_Lessons](https://codex.wordpress.org/WordPress_Lessons)
  - WordPress jargon ([https://codex.wordpress.org/WordPress\\_Semantics](https://codex.wordpress.org/WordPress_Semantics))
  - Meet-up group at DPL

## Instructions for Setting Up for Class

- Download and install Sublime Text 3 and put on Dock
  - <https://www.sublimetext.com/3>
- Download and install MAMP
  - <https://www.mamp.info/en/downloads/> and put on Dock
- Set up MAMP
  - Create folder in Documents called Sites
  - Launch MAMP
  - Uncheck “Check for MAMP PRO when starting MAMP
  - Click Launch MAMP
  - MAMP > Preferences, select PHP tab, Select 7.0.15, Click OK
  - MAMP > Preferences, select Web Server tab, select Document Root:, navigate and select the Sites folder in Documents, click OK
  - Click Start Servers, which opens the MAMP WebStart page
  - Tools > phpMyAdmin, select Databases tab, enter database name (wordpress), click Create
- Download and install WordPress
  - [wordpress.org](https://wordpress.org)
  - Unzip the WordPress application
  - Move the wordpress folder into the Sites folder in Documents

- Setting up WordPress
  - Open a browser and go to <http://localhost:8888/wordpress/>
  - Select a language
  - Enter the database connection information
    - Database name (same as what you used for when you created the database, i.e., wordpress)
    - Username is root
    - Password is root
    - Click Submit
    - Click Run the Install
    - Site Title is My WordPress Site
    - Username is admin
    - Password is admin
    - Your Email is [johna@openmediafoundation.org](mailto:johna@openmediafoundation.org)
    - Click Install WordPress
    - Click Log In
    - Enter username (admin) and password (admin) and click Log In
    - Click on My WordPress Site in the top lefthand corner to make sure the site is okay