In Tutorial 03 we will practice extending WordPress CMS with content, themes, and plugins.   
First, we will extend our WordPress site by adding a new main (primary) menu.  
Next we will add images to the media library.  
After that, we extend our WordPress site with Pages and Posts.   
We will create Page and Post content with bot the Classic editor and the new Gutenberg editor. After adding Page and Post content, we will use best practices to extend our WordPress site with themes, and plugins.  
  
After WordPress we will continue our PHP education.  
We will work through PHP arithmetic operators, concatenation operator,

Note: There is a tutorial template file to download, rename and submit to D2L. Tutorials are required.

Web host tools used in the Tutorial:  
(1) Shared Web Host SiteGround

(2) Pantheon as a Service (PaaS)   
 – Substitute for Shared web host for those with PaaS accounts.

(3) Cloud Web Host – Codeanywhere

**Tutorial Parts Index:**Part A – Getting started Student Contact Information

Part B.1 – Create a WordPress site on a shared web host

Part B.2 – Create a WordPress site on Pantheon (PaaS)

Part C – Extend WordPress with Images

Part D – Extend WordPress with Menus

Part E – Extend WordPress with Themes

Part F – Extend WordPress with Page Content– Classic vs. Gutenberg

Part G – Extend WordPress with Post, Category, and Tag Content

Part H – Extend WordPress with Plugins

Part I – Create a WordPress site on Codeanywhere

Part J – Extend the Codeanywhere WordPress site with Forms

Part K – PHP QUESTIONS   
Part L – Questions or problems with this tutorial?

**Part A – Getting started with this tutorial**

1. Download the Tutorial 03 assets zip file, template and instruction files from D2L.
2. Expand the asset file on your computer
3. Rename the template file by adding your full name to the front of the template file name.
4. Open the renamed template file for editing.   
   Go to **Part A** and add your name and contact info to **Part A**.

Part B - Create a WordPress CMS on Shared Web Host or Pantheon

Create a WordPress CMS on your shared web host (or Pantheon PaaS) account.

(B.1) If using a Share web host account:

* 1. **Software setup:**
     1. Protocol: http:
     2. Domain: Select the default domain
     3. In Directory: “**mod3tutorial3**” (***all lower case***)
  2. **Site Settings:**

1. Site Name: [**Your First Name]** - **Tutorial 03**
   1. Substitute your first name for **[Your First Name]**
2. Site Description: **Tutorial 03 WordPress CMS**
3. **Enable Multisite (WPMU): Do not enable Multisite** 
   1. **Admin Account:**
4. **Admin Username:** select default or create one
5. **Admin Password:** select default or create one
6. **Admin Email:** Accept default or add one
   1. Only use default email if you established an admin email on your web host
   2. **Choose Language:** - **Set language to the default of English**
   3. **Select Plugins**
      1. **Limit Login Attempts – Uncheck this option**
      2. **Classic Editor – Unchecked this option (Do not select)**
   4. Advanced Options:
      1. Database Name: select default
      2. Table Prefix: select default
      3. Do not change the Backup location
   5. ***Before you press the install button***, open the Tutorial 03 Template and record web host account and site login credentials in Part B [B.1]
   6. ***Press the Install button and wait for confirmation page to display***
   7. Open the Tutorial 03 Template and record website URL in Part B.1

**-OR, if using Parthenon instead of a shared web host-**

**(B.2) If using Pantheon:**

1. Create Your Pantheon Site
   * + Name Your Pantheon Site: **[Your Initials]–Tutorial 03 PA**
     + Choose an Organization for the Site: Set to None
2. Choose Your CMS: Select the Deploy button for WordPress
3. Select the "Visit your Pantheon Site Dashboard" button
4. Select the Install WordPress button
5. Configure your WordPress Site as follows:
   * + Language: English (United States)
     + Site Title: **[Your Initials]–Tutorial 03 PA**
     + Username: enter in a username
     + Password: use default or enter a strong password
     + Email: use your Pantheon login email
6. Press Install the WordPress site
7. ***Before you press the “Install WordPress” button***, open the Tutorial 03 Template and record following information in Part B [B.2]  
   PaaS WordPress site Admin username:   
   PaaS WordPress site Admin password:
8. ***Press the Install button and wait for confirmation***
9. Open the Tutorial 03 Template and record following information in Part B.2

**Part C - Extend WordPress with Images**

1. Add the following images (one or two at a time, but not all at once) from the Assets “Tutorial Site Page Images” folder to the WordPress **Media Library**

* AMushroom0001.png
* BlackSquirrel001.png
* BlackSquirrel002.png
* FoxSquirrel001.png
* FoxSquirrel002.png
* GraySquirrel001.png
* GraySquirrel002.png
* RedSquirrel001.png
* RedSquirrel002.png

Open the Tutorial 03 Template and record following information in Part C

Part D – Extend WordPress with Menus

1. Create a new main menu “**My Menu**”
   1. Select: **Dashboard > Appearance >Menus**
   2. Enter a Menu Name of “My Menu” where it says “enter menu name here” and press the “Create menu” button
   3. After creating the menu, select (check) all the check boxes at the bottom of the menu page then press the “**Save menu**” button
   4. Checking the boxes at the bottom:  
      (1) Auto add pages – Select Automatically add new top-level pages to this menu   
      (2) Display location – Select Desktop Horizontal Menu & Mobile Menu.
   5. Create a menu test page, see the tutorial video for details.   
      The tutorial demonstrates modifying an existing sample page and creating a quick Page to test the menu.   
      It’s always a good idea to test the menu after creating it.
   6. Open the Tutorial 03 Template and record following information in Part D

Part E – Extend WordPress with Themes

1. On the WordPress site Administrative Back-End dashboard select Appearance
2. Under Appearance select Themes
3. Select “Add New”

|  |
| --- |
|  |

1. Enter “**Standard Lite**” in the search block

|  |
| --- |
|  |

1. To select a theme, hover over it, then select the install button

|  |
| --- |
|  |

1. Once installed, select (click) the Activate button

|  |
| --- |
|  |

1. Once Activated, the theme is in the first slot (upper left) on the Theme page

|  |
| --- |
|  |
|  |

1. After changing themes, it’s always a good idea to re-check the menus settings page and check if the theme has different menu settings than the last theme. In this case, the only menu display area is the Primary menu.

Open the Tutorial 03 Template and record following information in Part E

**Part F - Extend WordPress with Page Content**

[**https://www.wpbeginner.com/glossary/page/**](https://www.wpbeginner.com/glossary/page/)

A page in WordPress usually refers to the page post type.   
It is one of the default pre-defined WordPress post types.   
WordPress started out as simple blogging tool, which allowed users to write posts.  
  
Pages are static one-off type of documents, which are not tied to the blog's reverse chronological order of content.

Pages have a menu item associated with them. They do not have categories or tags.

EXPLAINED: DIFFERENCE BETWEEN POSTS & PAGES IN WORDPRESS:  
<https://www.shoutmeloud.com/wordpress-pages-vs-posts.html>

WordPress Gutenberg Editor - Quick Start Tutorial:  
<https://www.youtube.com/watch?v=rld_XRvAOfs>

We will be entering Page content using the Classic Editor & Gutenberg Editor.

Recommended IPUM Site: <https://hipsum.co/>

1. Make sure your WordPress site is Version 5
2. Keep the theme at Standard Lite
3. Find, Install and Activate the Classic Editor
4. Create 2 Pages titled “Test Page 1” and Test Page 2” using the Classic Editor
   1. Add a different Squirrel picture to each page
   2. Add 1 paragraph of IPSUM content to the Body
5. Verify that t he Pages were added to the menu
6. Open the Tutorial 03 Template and take screen captures for part F.1
7. Deactivate the Classic Editor
8. Delete the Classic Editor
9. Change the theme back to Twenty Twenty
10. Create a new Page titled “How it works” using the new Gutenberg editor
    1. Add a title block of “How it works”
    2. Open the “How it works Content” assets file and use it to add several different types of block content to the page to demonstrate using the Gutenberg editor
11. Verify that the new Page were added to the menu
12. Open the Tutorial 03 Template and take screen captures for part F.2

**Part G - Extend WordPress with Post, Category and Tag Content**

<https://ithemes.com/tutorials/wordpress-posts-vs-pages/>

EXPLAINED: DIFFERENCE BETWEEN POSTS & PAGES IN WORDPRESS:  
<https://www.shoutmeloud.com/wordpress-pages-vs-posts.html>

WordPress Gutenberg Editor - Quick Start Tutorial:  
<https://www.youtube.com/watch?v=rld_XRvAOfs>

We will be entering Post content using the Gutenberg Editor.

Recommended IPUM Site: <https://hipsum.co/>

A WordPress post is what makes up the blog aspect of your site.   
These are generally news or informational updates about a certain topic or talking point. Posts are listed in reverse chronological order and can be **tagged, categorized** and even archived on your site.

**WordPress Posts display on the home page**

1. Create a new Category “Squirrel” and “Mushroom”
2. Create a new Tags “Black”, “Fox”, “Gray”, “Red”, and “Yellow”
   1. These Tags represent types of Squirrels, and Yellow is a Mushroom
3. Create 6 Posts with 1 Paragraph of IPSUM content and Title of “Post Test 1” through “Post Test 6”
4. From WYSIWYG, insert a “**Read** **More** ”, block that adds a “**Continue Reading**” link to the content. (Please put the Read More Tag on all 6 Posts)
5. Add Categories and Tags – We want the following Categories and Tags

|  |  |  |  |
| --- | --- | --- | --- |
| Title | Image | Category | Tag |
| Post Test 1 | BlackSquirrel001 | Squirrel | Black |
| Post Test 2 | BlackSquirrel002 | Squirrel | Black |
| Post Test 3 | FoxSquirrel001 | Squirrel | Fox |
| Post Test 4 | GraySquirrel001 | Squirrel | Gray |
| Post Test 5 | RedSquirrel001 | Squirrel | Red |
| Post Test 6 | AMushrooml001 | Mushroom | Yellow |

1. Verify the Posts on the Home page and review how the Categories and Tags display and how they filter and aggregate the Posts display.
2. Open the Tutorial 03 Template and take screen captures for Part G

**Part H - Extend WordPress with Plugins**

For more information on choosing WordPress Plugins please review the following:  
<https://ivycat.com/wordpress-101-how-to-choose-wordpress-plugins/>

For details about working with WordPress plugins, please review the following   
**Module 03 Presentations:**

M03 -04- WordPress Plugins - Best Practices

M03 -06- More WordPress Plugins – Forms

1. Always verify your plugin is compatible with your WordPress version before installing it on your site.

|  |
| --- |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2019-12-20_09-11-22.png |

1. In this activity we will be adding plugins that are not compatible.   
   We will be activating and using WP plugins that are untested (but not incompatible) with our version of Word Press and have other issues and do not follow Best Practices.   
   However, we will use these plugins, for demonstration purposes only.   
   **If this were a production environment, we would not install these plugin or any plugin that is not compatible with the current WordPress version or one that had not been updated within the last few weeks.**
2. When adding plugins Find, verify name, select, install and activate the plugin.   
     
   Please be sure you search for these plugin terms below.   
    **Easy FAQ with Expanding Text and** Basic SEO Pack  
   NOTE: If you spell the plugin name wrong or use the wrong case you may end up installing the wrong plugin or you may end up not finding the plugin.

|  |
| --- |
|  |
| HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2019-12-09_16-39-20.png |

1. Review the above plugin grid and determine which plugins are safe and should be installed and which ones are unsafe (risky) to install and list the reasons why.
   1. **Easy FAQ with Expanding Text**
   2. **Basic SEO Pack**
2. Create a ***FAQ*** **page** named “FAQ”
3. To investigate compatibility with our version of WordPress, we will create the FAQ using both Classic and Gutenberg editors and examine how they look and function
4. For **FAQ** content please use the file “**WordPressFAQHTML.txt**”, located in the “**Tutorial Site Page Content**” folder
5. **Make sure your WordPress page is in** “**Text**” mode before you paste in the FAQ HTML content. If you do not set the body to “**Text**” mode you will corrupt the HTML content and make it non-functional.
6. **Does work with Both Guttenberg and Classic Editor**
7. Active the SEO module and create basic SEO for a 1 of the Test Pages and 1 of the Posts and review how this plugin extends WordPress.
   1. Keywords: Add a comma separated list of keywords to the Keywords section.
      * 1. squirrel facts,
        2. squirrel,
        3. squirrels,
        4. red squirrel,
        5. black squirrel,
        6. fox squirrel,
        7. gray squirrel,
        8. what do squirrels look like,
   2. Description: all about squirrels

Open the Tutorial 03 Template take remaining screen captures for Part H.

**Part I - Create a WordPress CMS on Cloud Host Codeanywhere**  
For detailed screen captures on how to build WordPress site on Codeanywhere, refer back to the Module 02 Presentation: **M02 -02- Creating WordPress Websites on Codeanywhere**

1. Open a web browser and navigate to the Codeanywhere website - <https://codeanywhere.com/>
2. Select the Login link
3. Login using your email and password – established in previous weeks tutorial
4. If your intent is to create a new WordPress site, and a site container already exists, you must delete the container – our student accounts allow only 1 live container at a time
5. Create a new Connection > Container
6. Fill out the Connection Wizard container form
   1. Name: [your lower case initials]tutorial3ca - no spaces all lowercase
   2. Choose a WordPress stack: **I use WordPress Ubuntu 14.03**
   3. Do not enable **Always on** – This wont work with our accounts
7. Wait and be patient while Codeanywhere deploys your container server
   1. This may take a while, so please be patient
8. Select the link to access your web application over HTTPS protocol  
   - this loads the WordPress build script
9. Configure your WordPress Site as follows:
   1. Select English and continue
   2. Site Title: **[Your Initials] –Tutorial 03 CA**
   3. Username: enter your username – do not use the word admin
   4. Password: enter a strong password
   5. Email: use your Codeanywhere account email
   6. Search Engine Visibility – Select (check) Discourage indexing
10. ***Before you press the “Install WordPress” button***, open the Tutorial 03 Template and record the host account and site credentials in Part I
11. ***Press the “Install WordPress” button and wait for confirmation***
12. Update the Word press to version 5 + Update Themes and Plugins
13. Change active theme to Twenty Twenty
14. Update the config files to fix the file upload Max issue
15. Open the Tutorial 03 Template take remaining screen captures for Part I

**Part J – On Codeanywhere Site - Extend WordPress Form Plugins**

For best practices and details on WordPress Form Plugins, please refer to the Module 03 presentations:  
M03 -04- WordPress Plugins - Best Practices  
M03 -06- More WordPress Plugins - Forms

|  |  |
| --- | --- |
| **Simple Basic Contact Form** | **Contact Form 7** |
| **HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2020-01-24_19-21-10.png** | **HD:private:var:folders:vh:lbh1qypx7zldldk1l9f6tpsc0000gn:T:2019-12-20_09-18-42.png** |

**J.1 – Simple Basic Contact Form**

1. Find, install and activate the “Simple Basic Contact Form” plugin
2. Review making Simple Basic Contact us forms
3. Open the Tutorial 03 Template take remaining screen captures for Part J.1

**J.2 – Contact Form 7 + Honeypot**

1. Deactivate the Simple Basic Contact form plugin
2. Delete Simple basic Contact plugin from the plugin list
3. Find, install and activate the “Contact Form 7” plugin
4. Review making Contact Form 7 Contact us forms
5. Install the Contact Form 7 Honeypot plugin – review how it works
6. Open the Tutorial 03 Template take screen captures for Part J.2

**Part K: PHP**Topic Covered:  
Comparison operators, Change control, Introduction to PHP functions, Introduction to Arrays (Index and Associative)  
 **Testing PHP Programs using PHP Emulation Websites:**

* Online PHP test sites:
  + <http://phptester.net>
  + <http://sandbox.onlinephpfunctions.com/>
* How you test your script depends on which test site you use.
* **Each PHP emulation test site works slightly different**.
* Please read the site instructions before testing your PHP code.

**Review the Module 03 presentations   
M03 -07-Introduciton to PHP Part 3 – which covers** Compare vs. Assignment Operators, Change control, introduction to functions.  
**M03 -08- PHP Arrays Part 1** – which covers PHP Arrays (Index and Associative) and For and For each iteration techniques.

Please review and use the example PHP code located in the Module 03 PHP Examples section.   
Go to the Tutorial 03 Template file and answer the PHP questions for Part K.

**Part L – Questions or problems with this tutorial?**

Congratulations on completing this tutorial.   
Please submit the renamed and completed template to D2L for review and grading.

**If you have questions or issues about this tutorial please contact the instructor immediately.**

**To get help, either submit an IRT, or make an appointment with the DePaul tutor or connect to BlueStar and make an appointment for an office hours appointment for help.  
  
If you find errors with this tutorial, please fill out a BRECT form and submit it to the instructor ASAP for Extra Credit points.**

Michael H Chase

Mobile: 847-878-6225

Office: 312-362-1352

Email: [mchase2@cdm.depaul.edu](mailto:mchase2@cdm.depaul.edu)

Submit your completed tutorial template to D2L dropbox for the current weeks tutorial. If you prefer not to navigate by hand to the D2L dropbox, take advantage of the dropbox link in the current D2L Module Tutorial section. The D2L link will take you to the correct tutorial dropbox location.