

## WMDD 4835 Assignment 7: WordPress Theme

The purpose of this assignment is to create a WordPress theme from scratch. You will have a lot of freedom to implement the requirements as you see fit. This assignment will give you an opportunity to practice WordPress template creation, PHP, jQuery, and advanced CSS and HTML.

A good resource for starting a theme from scratch can be found here:

<https://www.taniarascia.com/developing-a-wordpress-theme-from-scratch/>

The theme that we make in the class demo will also be a good starting point.

### Setup and Handin:

- Create a new WordPress installation. In the wp-content/themes folder, create folder called **a7** for your new theme.
- Use the WordPress importer to import the xml file that has been provided with this assignment. This will provide most of the content for your site.
- In your **a7** folder, create a **style.css** file and enter the following information for your theme: **Theme Name**, **Author**, and **Description**.
  - o More info:  
<https://developer.wordpress.org/themes/basics/main-stylesheet-style-css/>
- Create the following template files in the **a7** folder: **index.php**, **single.php**, **header.php**, **footer.php**, **sidebar.php**, and **functions.php**.
- Complete the following tasks.
- When you have finished your theme, show it to me for approval.

### Task 1: Header and Footer Templates

- Set up the **header** and **footer** of the website.
- In the header, make sure the title of the page links back to the home page.
- A header image should be displayed on the home page. You can do this using a simple **img** tag. To test if the user is on the home page, you can use the **is\_home()** function.
  - o **Optional Challenge:** figure out how to allow the user to upload and display a custom header image: More info:  
<https://developer.wordpress.org/themes/functionality/custom-headers/>
- Use the **body\_class()** function to add page-specific classes to your body that will help you style the site later.

### Task 2: Index Template

- On the site home page, a preview of each the article should appear (using the **index.php** template file). Each preview should include the following information:
  - o The post thumbnail (see **task 4**)

- The title of the post with a link to the individual post. You can use the **get\_permalink()** function for this:
  - More info:
    - [https://developer.wordpress.org/reference/functions/get\\_permalink/](https://developer.wordpress.org/reference/functions/get_permalink/)
- The author of the post.
- The excerpt of the post.

### Task 3: Single Template

- When one visits each individual post, the full article should appear. (using the **single.php** template file.) The following information should be on each page:
  - The title of the post
  - The author of the post
  - The date of the post
  - The content of the post (not an excerpt)
  - The post thumbnail (see **task 4**)
  - A sidebar (see **task 5**)
  - A list of categories.
  - A list of tags. Make sure the tags display in a **ul** list as we discussed in class.
  - Links to the previous and next posts. Figure out how to do this!

### Task 4: Post Thumbnails

- Add theme support for post thumbnails in the **functions.php** file.
  - More info:
    - [https://developer.wordpress.org/reference/functions/add\\_theme\\_support/](https://developer.wordpress.org/reference/functions/add_theme_support/)
- Add post thumbnails to each post from the images provided with the assignment files. You will do this through the post editor.
- Set up your theme to display the post thumbnails in each post. You will need to edit your template files to do this. Figure out which function should be used to display the post thumbnail.

### Task 5: Sidebar

- On each **single** page, a sidebar should be displayed (using the **sidebar.php** template) Figure out which function is used to embed the sidebar into your single posts.
- The sidebar should contain the name of the author, a brief biography of the author, and the author's **gravatar**. The biography of the author should be written in **Biographical Info** section of the **Users** section in the dashboard.

### Task 6: Enqueue Styles and Scripts

- For more information on this step:  
<https://developer.wordpress.org/themes/basics/including-css-javascript/>
- Use the **functions.php** file to enqueue the **style.css** stylesheet you created. The styles for your site will go here.
- Use the **functions.php** file to load the font **Ubuntu** from Google fonts. Figure out how to do this. (hint: it's very similar to how you enqueued your stylesheet, but you will need to use a different URL.)
- Enqueue the jQuery library. Create a file called **script.js** and enqueue that as well.

### Task 7: Styles

- In your **style.css** file, implement styles for your website. Your styles don't have to exactly match the video, but there are a few things I would like to see:
  - o be sure to use flexbox for your layout.
  - o The headers on the index page and single pages should be styled differently from one another.
  - o The **categories** and **tags** should be styled differently from one another.
  - o The content of the post (the writing) should be **indented** from the rest of the content and have links that are **a different color** from the rest of the page (in my demo the links are **mediumseagreen**.)
  - o The **author** and **date** of each post should be styled slightly differently from the other text (I used bold text). The sidebar with author information should have its own visual section on the page and its content should be centered.
  - o **Tips:**
    - Look closely at the elements and classes that are added to your page by the WordPress template functions. These will help you select specific elements to style.
    - Also look closely at the classes added by the **body\_class()** function you added earlier. How can you use these classes to create different styles for your index page and single page?

### Task 8: jQuery

- Using the **script.js** file you created, set up the following functionality:
  - o When the user hovers over the thumbnail image of an article on the index page, the thumbnail should grow vertically a little bit. The font-size of the excerpt should shrink a bit. This should happen *only* when the user hovers on the *image* and not any other part of the post.
    - Use the **"mouseenter"** and **"mouseleave"** events with the **on()** method.

- Use the **animate** method in jQuery to change the property values and animate the transitions:
  - More info: [https://www.w3schools.com/jquery/jquery\\_animate.asp](https://www.w3schools.com/jquery/jquery_animate.asp)
- You may need to use the **siblings('selector')** method, and figure out how to select only certain siblings by passing in a selector.
  - More info: <https://api.jquery.com/siblings/>

**Optional Challenge Task:**

- When you click on a tag or category, you should see a page with a list of all posts that have that tag or category. Style this page to look attractive!