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> Bootstrap and WordPress Theme Integration in 8 Easy Steps

Bootstrap and WordPress Theme Integration in 8 Easy Steps

May 10, 2018, By Ahmed Bouchefra (https://www.sitepoint.com/author/abouchefra/)

This tutorial explains the key steps for using Bootstrap and WordPress together, integrating the latest release of the Bootstrap library with a WordPress theme.

Both Bootstrap and WordPress are highly popular: 3.7 websites on the internet are built with Bootstrap (https://trends.builtwith.com/docinfo/Twitter-Bootstrap) and 29% of the web uses WordPress (https://wordpress.org/). Clearly, knowing how to build websites and apps using these two robust and mature, open-source technologies can be a valuable skill for developers in the workplace.

There's quite a lot to cover, so let's dive in!

Why WordPress?

<u>WordPress (https://wordpress.org/)</u> is open-source software you can use to create a beautiful website, blog or app.

The popularity of WordPress is mostly due to its ease of use and powerful options for appearance, customization, and extensibility (via themes and plugins).

Thanks to WordPress themes, webmasters with little to no coding experience can power their websites with a professional appearance and custom functionality. Users can easily select different themes with a few clicks using the *Appearance* menu in the administration dashboard or copy theme files directly into the *wp-content* > *themes* folder. Themes can be purchased from dedicated marketplaces, individual developers, or can also be freely installed from the <u>WordPress.org themes directory</u>

(https://wordpress.org/themes/).

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Why Bootstrap?

Bootstrap is a robust and comprehensive UI library for developing responsive and mobile-first websites and apps. Here are some advantages of using Bootstrap as the styling framework for a WordPress theme.

Advantages of Using Bootstrap and WordPress Themes Together

In my view, there are many advantages of using Bootstrap to style a WordPress theme.

Bootstrap is a popular, open-source project with extensive development and continuous maintenance, which over time has resulted in fewer bugs.

It's a cross-browser framework that supports major browsers with a good CSS baseline called [Reboot] (http://getbootstrap.com/docs/4.0/content/reboot/).

It has an extensive and thorough documentation.

It deals with reset, grids, typography, utilities, and media queries, thereby freeing up development time.

It's widely used by developers to style websites, so it's easy to find tutorials, demos, and open-source projects to learn from or extend.

Bootstrap can be used to quickly create a mobile-first and mobile-optimized WordPress theme without reinventing the wheel.

There are tons of starter themes made available by the community, such as <u>Understrap (https://understrap.com/)</u>, which aim to provide a quick starting point for developers to create WordPress themes with Bootstrap.

Although it's not created with WordPress in mind, Bootstrap can be easily integrated with WordPress.

We can easily customize Bootstrap to meet specific project requirements, once we have enough knowledge of the available classes.

We can take advantage of hundreds of JavaScript/jQuery plugins already integrated with Bootstrap.

Starting with Bootstrap 4, plugins use modern ES6.

With the release of Bootstrap 4, the library now uses Sass instead of Less as the preprocessor of choice, which makes it more widely compatible with a huge number of developer workflows.

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Layout (https://www.sitepoint.com/bootstrap-card-component-introduction) such as the Masonry-style interface.

The Bootstrap 4 grid system is built on top of <u>flexbox (https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Flexible_Box_Layout/Basic_Concepts_of_Flexbox)</u>, which makes the grid even more flexible, developer-friendly and clean.

Are There Any Disadvantages of Using Bootstrap and WordPress Together?

As for the disadvantages, the developer community has raised a few concerns, including the following.

Bootstrap isn't designed for straightforward integration with WordPress, but that shouldn't be a huge obstacle for most developers.

If we need to override a lot of predefined Bootstrap styles to meet the design requirements, it might not be worthwhile to use a CSS framework at all.

It's true that Bootstrap makes it easy to quickly add responsive styling to our theme. However, we also need to invest time learning about Bootstrap to be able to add our customizations so that our themes look different from the numerous Bootstrap-based websites on the Internet.

Bootstrap depends on jQuery, so in some situations we might have to deal with problems related to jQuery — such as outdated plugins, or having to include the whole jQuery library, even if our project only needs a small feature like \$.ajax().

Prerequisites for Following Along

In this tutorial, I assume you have a development environment with PHP, MySQL and WordPress installed — such as Homestead_Improved (https://github.com/Swader/homestead_improved/). This quick tip (https://www.sitepoint.com/quick-tip-get-homestead-vagrant-vm-running/) will help you get up and running with a brand new Homestead Improved Vagrant VM in no time.

You also need to be familiar with WordPress — particularly how to install and activate themes, add WordPress Menus, create posts and pages, etc.

Finally, you need to have some knowledge of how to build a WordPress theme. In fact, this is a tutorial on integrating Bootstrap in a WordPress theme, not a tutorial on how to build a fully functional WordPress theme, which would have a much wider scope than what we have available in this article.

Key Steps to Integrate Bootstrap and WordPress

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First, let's review which files we're going to create.

The Structure of a WordPress Theme

A WordPress theme has a predetermined file structure. Some files are required for the theme to be recognized by WordPress.

The first required file is **style.css**. This CSS file contains styles for the theme. Most importantly, this file also has a special task: it provides meta information about the theme such as the theme name, description, author, and other extra details. The meta information needs to be present in the head of the file in the form of CSS comments.

The other required file is <code>index.php</code>, which is the main WordPress theme file, and the last fallback template file WordPress relies on, in case it can't find any other template file to display its content.

There are many optional files, but for our simple Bootstrap-based theme we're only going to add the following files:

header.php and footer.php, to lay out the header and footer sections of our WordPress theme respectively, which are displayed on every page of our theme functions.php, where we're going to write the code for loading our theme's custom stylesheet, Bootstrap styles and scripts, and more.

If you're curious, check out the other templates that you can customize from the <u>WordPress docs</u> (https://developer.wordpress.org/themes/template-files-section/post-template-files/).

Let's get down to business!

Step 1: Creating the Theme Folder

First, we head over to our WordPress installation folder and navigate to wp-content -> themes. Here, we create a folder for our theme. Let's call it bs-theme.

Step 2: Adding style.css

Let's create our first required file, style.css, where we're going to put our custom CSS code.

At the very top of this stylesheet document (make sure you leave no blank space at the top), we add the meta information about our theme between CSS comments (remember to replace the <THEME_URI>, <AUTHOR_NAME>, and <AUTHOR_URI> placeholders with values relating to your own project):

```
9/16/2018 (https://www.sitepoint.com/)

Theme Nome: BS 4 Theme
Theme URI: <THEME_URI>
Description: A Theme for WordPress with Bootstrap for styling.

Author: <AUTHOR_NAME>
Author URI: <AUTHOR_URI>
Version: 1.0
```

Now WordPress can display our theme's info in the admin area.

We can add our custom styles below the meta information comments. For example, let's add a few CSS rules to style the <body>:

```
@import url(https://fonts.googleapis.com/css?family=Montserrat:700);
body {
  padding-top: 4.5rem;
  font-family: 'Montserrat','Helvetica Neue',Arial,sans-serif;
  color: #001A33;
}
```

Step 3: Creating the Header Section

Let's start by creating header.php in the themes folder. Next, we add the following content:

```
9/166291% (https://www.sitepoint.com/)
                                       Bootstrap and WordPress Theme Integration in 8 Easy Steps — SitePoint
<!--[i+ 1t IE 7]><html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]><html class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]><html class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
  <head>
    <meta charset="utf-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
   <title><?php wp_title('&laquo;', true, 'right'); ?> <?php bloginfo('name'); ?></title>
   <meta name="description" content="">
    <meta name="author" content="">
   <meta name="viewport" content="width=device-width">
   <link rel="pingback" href="<?php bloginfo('pingback_url'); ?>" />
    <?php wp_head(); ?>
</head>
<body <?php body_class(); ?>>
 <nav class="navbar navbar-expand-md navbar-dark fixed-top bg-dark">
   <a class="navbar-brand" href="#">
     <?php bloginfo('name'); ?>
   </a>
   <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarCollapse" aria-</pre>
controls="navbarCollapse" aria-expanded="false" aria-label="Toggle navigation">
     <span class="navbar-toggler-icon"></span>
   </button>
    <div class="collapse navbar-collapse" id="navbarCollapse">
     <a class="nav-link" href="/">
           Home <span class="sr-only">(current)</span>
         </a>
       </div>
  </nav>
```

In the code above, most meta information for the HTML head section is added using various WordPress tags, such as bloginfo('name') (https://developer.wordpress.org/reference/functions/bloginfo/) for getting the site's name,

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We've also used different Bootstrap classes to create a responsive navigation bar. However, as it is, the navigation bar is not dynamic. That is, it's not integrated with the <u>WordPress menu functionality</u>

(https://codex.wordpress.org/WordPress_Menu_User_Guide). This means that we can't build a WordPress menu in the admin area and see it displayed on the front end of our website.

Giving the static Bootstrap navigation bar the power of WordPress will be our next step.

Step 4: Integrating Bootstrap Navigation with the WordPress Menu

To accomplish our task, we need a <u>WordPress_walker_class (https://codex.wordpress.org/Class_Reference/Walker)</u>, which lets developers traverse tree-like data structures with a view to rendering HTML markup. There are a few Bootstrap navigation walker_classes available on the Internet. For this tutorial, we'll go with Dominic Businaro's <u>BS4navwalker</u> (https://github.com/dupkey/bs4navwalker#bs4navwalker), which is freely available on GitHub.

We grab bs4navwalker.php and save it in the root directory of our theme (which we called bs-theme earlier in this tutorial).

Next, we're going to create a **functions.php** file (this name is required by WordPress) in the theme's root folder, and we'll write this line of code:

require_once('bs4navwalker.php');

Now we can use the Bootstrap navigation walker class in our theme files.

We locate the markup for the nav element we just wrote and modify it as follows:

```
9/16/2018 (<u>set to subawww.sitepoint.com/)</u> vbar-darkp-rixed-top bg-dark Integration in 8 Easy Steps — SitePoint
 \stackrel{\sqcup}{\prec}a cl\searrowss="navbar-brand" href="#">
    <?php bloginfo('name'); ?>
  </a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarCollapse" aria-</pre>
controls="navbarCollapse" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <?php
    wp_nav_menu([
      'menu'
                          => 'primary',
                         => 'menu-1',
      'theme_location'
      'container'
                          => 'div',
      'container_id'
                          => 'navbarCollapse',
      'container_class' => 'collapse navbar-collapse',
      'menu_id'
                          => false,
      'menu_class'
                          => 'navbar-nav mr-auto',
      'depth'
      'fallback_cb'
                          => 'bs4navwalker::fallback',
      'walker'
                          => new bs4navwalker()
    ]);
  ?>
</nav>
```

The code above assumes we've already created a menu in the WordPress admin area and have a few pages stored in the WordPress database.

To display our navigation bar, we're using the wp nav menu() function.

The values for the **menu** and **theme_location** parameters we're passing to **wp_nav_menu()** are taken from the settings of our WordPress menu, which we should have created already in the admin area.

The values for the **container**, **container_id**, and **container_class** parameters are taken from the Bootstrap classes and CSS **id** attribute on the **div** element that wraps the **ul** element containing the list items for our navigation links.

The menu class parameter's value comes from the Bootstrap class on the ul element.

The **depth** parameter's value indicates how many hierarchical levels our navigation menu is going to have. We've set this to **0**, which is the default value and stands for **all**.

The walker parameter is here very important, and we've set it to a new instance of the bs4navwalker class, which is responsible for rendering the Bootstrap navigation markup. https://www.sitepoint.com/bootstrap-wordpress-theme-integration/

AHB/2019 (https://www.sitepoint.com/). Bootstrap and WordPress Theme Integration in 8 Easy Steps — SitePoint

You'll find a detailed explanation with the full list of parameters for the wp_nav_menu() function on the WordPress.org documentation page (https://developer.wordpress.org/reference/functions/wp_nav_menu/).

Step 5: Creating the Footer Section

The next step is to create the **footer.php** file and add the following content:

```
<footer>
</footer>
</php wp_footer(); ?>
</body>
</html>
```

wp_footer() is used by WordPress to dynamically place different markup elements, such as links to stylesheet and JavaScript files, at the bottom of the page.

It's important to note that many plugins use the wp_head()

(https://developer.wordpress.org/reference/functions/wp_head/) and wp_footer()

(https://developer.wordpress.org/reference/functions/wp_footer/) hooks to place required elements in the head and footer of the page. Therefore, you'll need to make sure to add both hooks as shown in this tutorial. Doing so will avoid breaking these plugins' functionality when our theme is activated.

Step 6: Adding the index.php Template File

index.php is the second required file for every WordPress theme, so let's go ahead and create it. We then add the content below:

```
<?php get_header(); ?>
  <!-- Other Content here -->
<?php get_footer(); ?>
```

Using get_header() and get_footer() instructs WordPress to include the previously created templates, header.php and footer.php, inside index.php.

Step 7: Adding the WordPress Loop

To show our posts, we'll be using the famous WordPress loop (https://codex.wordpress.org/The_Loop).

Inside index.php, between the header and footer tags, let's add the following code:

This is what happens above:

We check if there are any posts by calling <code>have_posts()</code>.

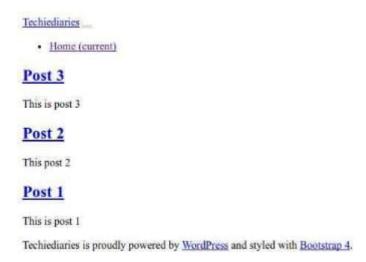
Using a <code>while</code> loop, we loop over all the existing posts.

Finally, we show the title and content for each post. We could also get extra information such as the date when the post is published, the author of the post, comments associated with each post, and so on.

Step 8: Adding Bootstrap

After adding our template files, we now have a good starting theme that we can activate via the *Appearance* menu in the admin panel.

If we preview our theme, we'll get an unstyled site, which looks like the following screenshot:



To give our theme a Bootstrap look and feel, we need to include the Bootstrap files in our project.

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Our folder structure should look like this:

```
- bs-theme
- style.css
- footer.php
- functions.php
- header.php
- index.php
- single.php
- css
- bootstrap.min.css
- js
- vendor
- bootstrap.bundle.min.css
```

Next, we'll do the following:

Enqueue (https://www.sitepoint.com/enqueuing-scripts-styles-wordpress/)
Bootstrap stylesheet and JavaScript files
use WordPress hooks (https://www.sitepoint.com/digging-deeper-wordpress-hooks-filters/) to insert the Bootstrap files into the web page.

Let's start by opening functions.php and adding the following code:

wp_enqueue_style(): this method enqueues and loads the stylesheet passed as a parameter. In the code above, we use it to load both the Bootstrap stylesheet and our custom CSS file.

wp_enqueue_script(): this method enqueues and loads a script file. We've used
it to load Bootstrap's JavaScript bundle, indicating the jQuery library
(http://jquery.com/) as a dependency. jQuery comes already bundled with
WordPress, so we don't need to load it using a URL. (WordPress knows exactly
where to get it.)

get_template_directory_uri(): this method gets the URI of the current activated theme directory.

add_action('wp_enqueue_scripts', '...'): this method hooks our functions into the wp_enqueue_scripts action (used when en-queuing styles and scripts that need to appear on the front-end of the website).

You can find more about including CSS and JavaScript files in the <u>WordPress theme docs</u> (https://developer.wordpress.org/themes/basics/including-css-javascript/#enqueuing-scripts-and-styles).

This is our theme now with its shiny Bootstrap appearance:

Our Bootstrap-based WordPress theme as it's rendered in the browser

Conclusion

In this tutorial, we've seen how to create a simple WordPress theme that integrates the latest version of Bootstrap.

With this new skill under your developer belt, you're now ready to create your own awesome, Bootstrap-based WordPress theme and share it with the world!

If you've heard about Bootstrap but have been putting off learning it because it seems too complicated, then play through our Introduction to Bootstrap 4 (https://www.sitepoint.com/premium/courses/introduction-to-bootstrap-4-2984) course for a quick and fun introduction to the power of Bootstrap.

Meet the author

med Ahmed Bouchefra (https://www.sitepoint.com/author/abouchefra/)

(https://twitter.com/techiediaries) (https://www.linkedin.com/in/ahmed-bouchefra/)

Ahmed is a web entrepreneur, developer, digital marketer and blogger. He writes about software and website development, money-making tips, SEO and more. You can find more of his writing on his

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