# How to Subclass a WordPress Theme

Creating WordPress Child Themes for Fun and Profit

Version 2.0

## What is a WordPress Theme?

- WordPress Themes are a collection of files that work together to create the design and functionality of a WordPress site.
- Each Theme may be different, offering many choices for site owners to instantly change their website look.

# Basic WordPress Theme Anatomy

- WordPress Themes live in subdirectories of the WordPress themes directory (wpcontent/themes/ by default).
- The Theme's subdirectory holds all of the Theme's stylesheet files, template files, and optional functions file (functions.php), JavaScript files, and images.
- For example, a Theme named "test" would reside in the directory wpcontent/themes/test/.

# Theme files reside in theme specific subfolders in the [wp-content/themes] folder



## Theme folders contain subfolders and files.

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mod6assign6A		CSS	4 KB	Dec 18, 2015 3:06 PM	httpd/unix-directory	0
- ⊡ mod7activity7		genericons	4 KB	Dec 18, 2015 3:06 PM	httpd/unix-directory	0
modules		inc	4 KB	Dec 18, 2015 3:06 PM	httpd/unix-directory	0
multilingualtest1		js	4 KB	Dec 18, 2015 3:06 PM	httpd/unix-directory	0
musicdemo01		languages	4 KB	Dec 18, 2015 3:06 PM	httpd/unix-directory	
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mywildlifeinprint2	PHP	archive.php	1.87 KB	AM	application/x-httpd-php	,
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□	PHP	content-link.php	1.71 KB	Dec 16, 2014 1:00 PM	application/x-httpd-php	0
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±	eng	page.php	902 bytes	Nov 19, 2014 8:28 PM	application/x-httpd-php	0
<sup>].</sup> i wp-includes	T	readme.txt	3.07 KB	Dec 6, 2015 10:10 PM	text/plain	0
picturetest1		rti.css	12.09 KB	Sep 26, 2015 10:49	text/css	0
profiles				AM		
recyclerycm1 recyclerycm2		screenshot.png	367.8 KB	Oct 28, 2014 4:23 PM	image/x-generic	(
responsivetables	<u>ehr</u>	search.php	1.37 KB	Dec 16, 2014 1:00 PM	application/x-httpd-php	0
scripts	PHP	sidebar.php	1.28 KB	Nov 19, 2014 8:28 PM	application/x-httpd-php	0
seotest1	PHP PHP	single.php	1.49 KB	Dec 12, 2014 6:37 PM	application/x-httpd-php	0
ites sites	(ESS)	style.css the stye.css file	94.9 KB	Dec 6, 2015 10:10 PM	text/css	

# WordPress Themes typically consist of three main types of files

- The stylesheet called style.css, which controls the presentation (visual design and layout) of the website pages.
- WordPress template files which control the way the site pages generate the information from your WordPress database to be displayed on the site.
- The optional functions file (functions.php) as part of the WordPress Theme files.

## WordPress Themes Typical File Extensions

- .php
- .js Java Script files
- .txt- Text files
- .css Cascading Style Sheet files
- .pot Internationalization (i18n) Files
- .png Image files
  - Portable Network Graphics (PNG / pɪŋ/) is a raster graphics file format that supports lossless data compression

## WordPress Themes Typical File Extensions

- .ttf True Type Font files (raster font)
- .eot Open Type Font Embedded file
- .svg— Scalable Vector Graphics file
  - XML-based vector image format for two-dimensional graphics with support for interactivity and animation
- .woff Web open font files
  - WOFF files are Open-Type or TrueType with compression and additional metadata.

## Theme Stylesheet

- In addition to the theme CSS style information,
   style.css provides details about the Theme
  - These details are in the form of comments.
  - The WordPress system requires that the stylesheet (style.css)
     provide details about the Theme in the form of comments.
- No two Themes are allowed to have the same details listed in their comment headers.
- If you make your own Theme by copying an existing one, make sure you change the detail information before submitting the stylesheet (style.css) to the WordPress site theme folder.

# The following is an example of the first few lines of the stylesheet, [style.css] called the stylesheet header for the Theme "Twenty Thirteen"

```
Theme Name: Twenty Thirteen
Theme URI: http://wordpress.org/themes/twentythirteen
Author: the WordPress team
Author URI: http://wordpress.org/
Description: The 2013 theme for WordPress takes us back to the blog, featuring a full range of post formats, each
displayed beautifully in their own unique way. Design details abound, starting with a vibrant color scheme and
matching header images, beautiful typography and icons, and a flexible layout that looks great on any device, big
or small.
Version: 1.0
License: GNU General Public License v2 or later
License URI: http://www.gnu.org/licenses/gpl-2.0.html
Tags: black, brown, orange, tan, white, yellow, light, one-column, two-columns, right-sidebar, flexible-width,
custom-header, custom-menu, editor-style, featured-images, microformats, post-formats, rtl-language-support,
sticky-post, translation-ready
Text Domain: twentythirteen
This theme, like WordPress, is licensed under the GPL.
Use it to make something cool, have fun, and share what you've learned with others.
*/
```

# WordPress Template Files List

 The following 3 slides are a list of the Theme files recognized by WordPress.

# WordPress Template Files List -1-

### style.css

 The main stylesheet. This must be included with your Theme, and it must contain the information header for your Theme.

### rtl.css

 The rtl stylesheet. This will be included automatically if the website's text direction is right-to-left. This can be generated using the RTLer plugin.

### index.php

The main template. If your Theme provides its own templates, index.php must be present.

### comments.php

The comments template.

### front-page.php

The front page template.

### home.php

 The home page template, which is the front page by default. If you use a static front page this is the template for the page with the latest posts.

# WordPress Template Files List -2-

- single.php
  - The single post template. Used when a single post is queried. For this and all other query templates, index.php is used if the query template is not present.
- single-{post-type}.php
  - The single post template used when a single post from a custom post type is queried.
     For example, single-book.php would be used for displaying single posts from the custom post type named "book". index.php is used if the query template for the custom post type is not present.
- page.php
  - The page template. Used when an individual Page is queried.
- category.php
  - The category template. Used when a category is queried.
- tag.php
  - The tag template. Used when a tag is queried.
- taxonomy.php
  - The term template. Used when a term in a custom taxonomy is queried.

# WordPress Template Files List -3-

- author.php
  - The author template. Used when an author is gueried.
- date.php
  - The date/time template. Used when a date or time is queried. Year, month, day, hour, minute, second.
- archive.php
  - The archive template. Used when a category, author, or date is queried. Note that this template will be overridden by category.php, author.php, and date.php for their respective query types.
- search.php
  - The search results template. Used when a search is performed.
- attachment.php
  - Attachment template. Used when viewing a single attachment.
- image.php
  - Image attachment template. Used when viewing a single image attachment. If not present, attachment.php will be used.
- 404.php
  - The 404 Not Found template. Used when WordPress cannot find a post or page that matches the query.

# Never Make Changes to a Themes Files

- Never make changes to any baseline theme file
- Its tempting to fix a theme display problem by editing the theme
- What you have to remember is that the theme will get updated one day, and when that update occurs, your changes will be overwritten and you will lose all your changes
- To make changes to a Theme, subclass the theme, creating child theme and make changes to the (sub-classed) child theme

## Why create a Child Theme?

- To create a unique look for your WordPress site.
- To take advantage of templates, template tags, and the WordPress Loop to generate different website results and looks.
- To provide alternative templates for specific site features, such as category pages and search result pages.
- To quickly switch between two site layouts, or to take advantage of a Theme or style switcher to allow site owners to change the look of your site.

## **Benefits of Child Themes**

- It separates the presentation styles and template files from the system files so the site will upgrade without drastic changes to the visual presentation of the site.
- It allows for customization of the site functionality unique to that Theme.
- It allows for quick changes of the visual design and layout of a WordPress site.
- It removes the need for a typical WordPress site owner to have to learn CSS, HTML, and PHP in order to have a great-looking website.

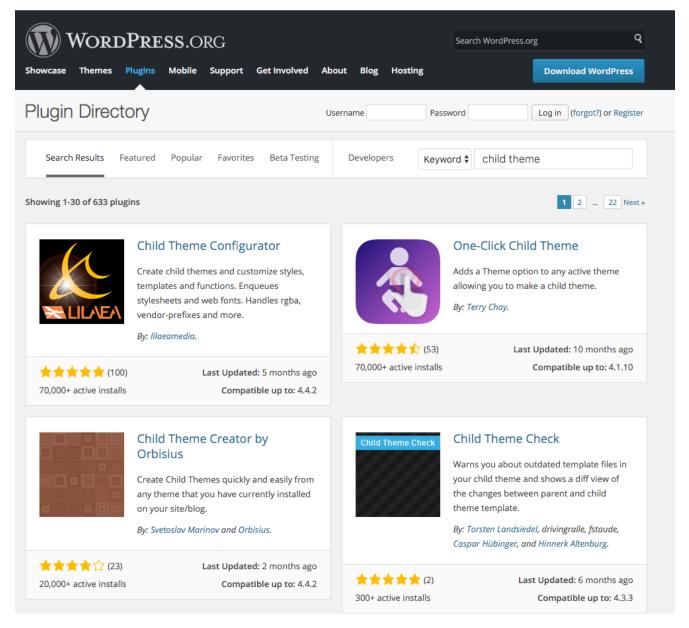
## Benefits of Child Themes

- It separates the presentation styles and template files from the system files so the site will upgrade without drastic changes to the visual presentation of the site.
  - Another way to say this is,
    - if you make changes to a theme (hack the theme) and then you apply a theme upgrade, you will lose all your changes (hacks) in the blink of an eye
  - And even if you saved your changes in a file, you still have to reapply them to the theme
  - And if the theme code changes, you may have to reimagine, re-design and recode a different hack solution

# At least 2 ways to make a WordPress Child theme

- 1. Create the files yourself, with an editor and copy and paste
  - If you do create the child theme files yourself, avoid starting or using numbers in the child theme name
    - Numbers in a theme name prevents the theme from being displayed in the available themes list on the WordPress site.
- 2. Use a WordPress Plugin
  - There are several plugins that can help you create child themes.

### Creating a WordPress Child Theme Manually



### Creating a WordPress Child Theme Manually



#### Child Theme Wizard

Creates a child theme with one click and lets you customise its options.

By: Jay Versluis.



Last Updated: 4 months ago Compatible up to: 4.4.2



### Easy Child Theme Creator

Allow people to create a child theme with best practices

By: Ashok G.



Last Updated: 9 months ago

Compatible up to: 4.2.7



#### **Child Themes**

Create a child theme really easily from any installed theme.

By: Chris Taylor.



300+ active installs

Last Updated: 11 months ago

Compatible up to: 4.2.7



### Wpp Easy Child Generator

A plugin that allows to create Child Theme of your installed wordpress theme

By: Piyushkapoor786.



20+ active installs

Last Updated: 8 months ago

Compatible up to: 4.2.7

## Creating a WordPress Child Theme Manually



### **BNS Theme Add-Ins**

Extend the capabilities of WordPress Parent-Themes and Child-Themes

By: Edward Caissie.



Last Updated: 4 months ago

Compatible up to: 4.4.2



### Childify Me

Create a child-theme from the Theme Customizer.

By: d4z\_c0nf.



8,000+ active installs

Last Updated: 4 months ago

Compatible up to: 4.4.2



### **Child Themify**

Create child themes at the click of a button.

By: John P. Bloch.



Last Updated: 4 months ago

Compatible up to: 4.4.9



### xili floom slideshow

xili-floom-slideshow integrates the floom slideshow in WordPress theme or child theme.

By: Michel - xiligroup dev and MS xiligroup.



400+ active installs

Last Updated: 11 months ago

Compatible up to: 4.1.10

## Use Plugins to Create a WordPress Child Theme

## Child Theme Configurator

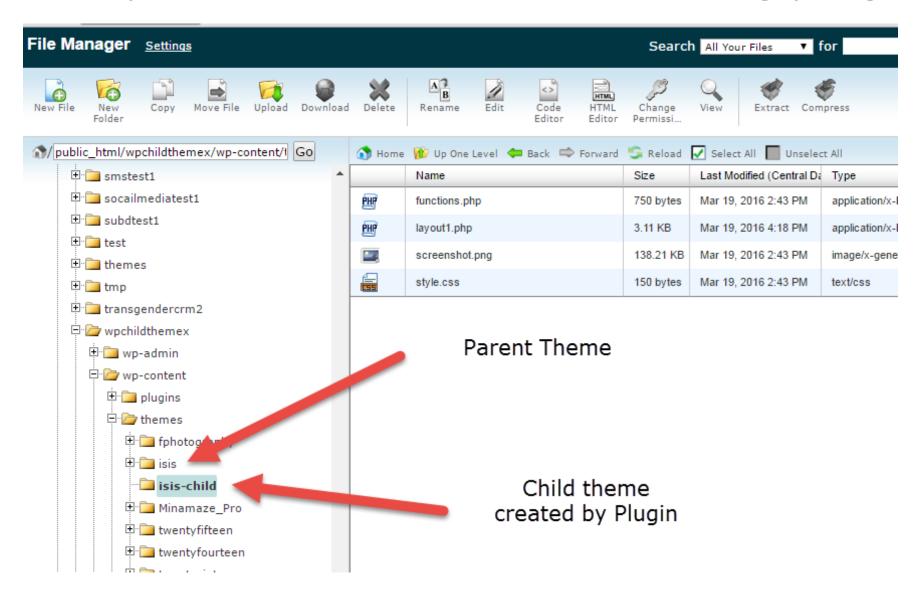
- Create child themes and customize styles, templates and functions. Enqueues stylesheets and web fonts. Handles rgba, vendor-prefixes and more.
- 70,000+ active installs
- Compatible up to 4.4.2
- Help Page: http://www.childthemeconfigurator.com/how-touse/#stylesheet handling
  - (Has installation guide and usage guide, and training videos)

## Use Plugins to Create a WordPress Child Theme

### One-Click Child Theme

- Adds a Theme option to any active theme allowing you to make a child theme.
- -70,000+ active installs
- Compatible up to: 4.1.10

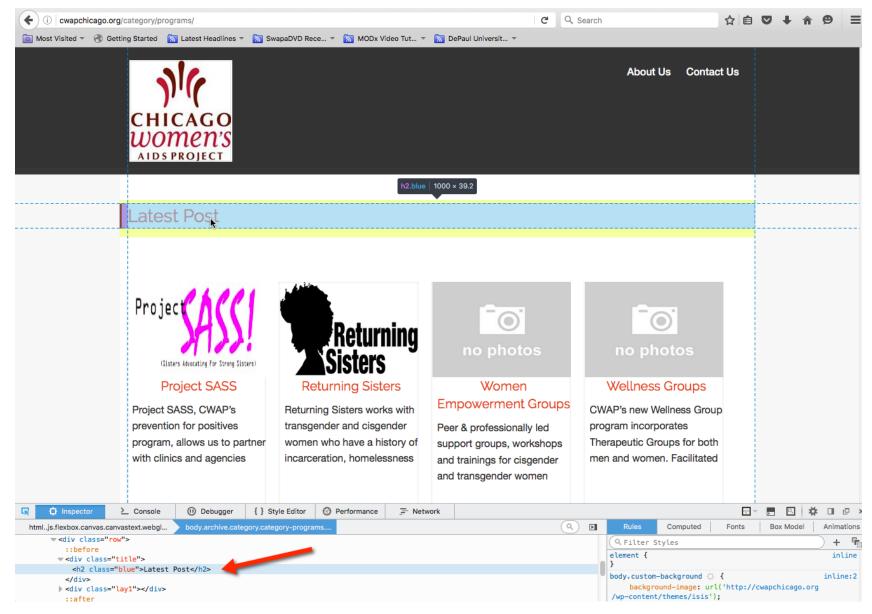
# Example – Create child theme using plugin



## Once you have the Child theme...

- Once you have the child theme, you can concentrate on finding the parent theme code that you want to change (to fix a problem or just change the theme)
- I recommend Firefox developer tools
- The Inspector tool is good at finding what code is responsible for a specific part of the page display
- Once you find the responsible code, you must file the file where the code resides

# Using Firefox Developer Tools, Inspector



## grep to find the file that has "Latest Post"

Michael-Chases-Mac-Pro:Downloads mchase\$ grep -lr "Latest Post" \* hendsn.service-cdm.org-20160315-134436-842.wpress hendsn.service-cdm.org-20160315-171950-795.wpress isis/dummy/dummy-layout1.php isis/layout1.php <<- This is the file isis/options.php

- Grep on Linux systems My SiteGround Account is a Linux web server
- Or use a file search utility on Windows This means you will have to download the parent them to your computer so you can search the files for specific content

## Reference Links

- Child Theme Plugins
  - https://wordpress.org/plugins/search.php?q=child+theme
- Example How to Child 2011 Theme
  - http://www.hongkiat.com/blog/wordpress-child-themes-dev/
  - http://code.tutsplus.com/tutorials/child-themes-basics-and-creating-child-themes-in-wordpress--wp-27475
  - http://theme.fm/2011/07/how-to-create-a-child-theme-basedon-twenty-eleven-791/
- Info on Child Themes A very long and dry overview of how themes and child themes work
  - http://techblog.kjodle.net/2014/04/12/wordpress-childthemes-the-whys-and-hows/