Theme Development

06 Theme dev

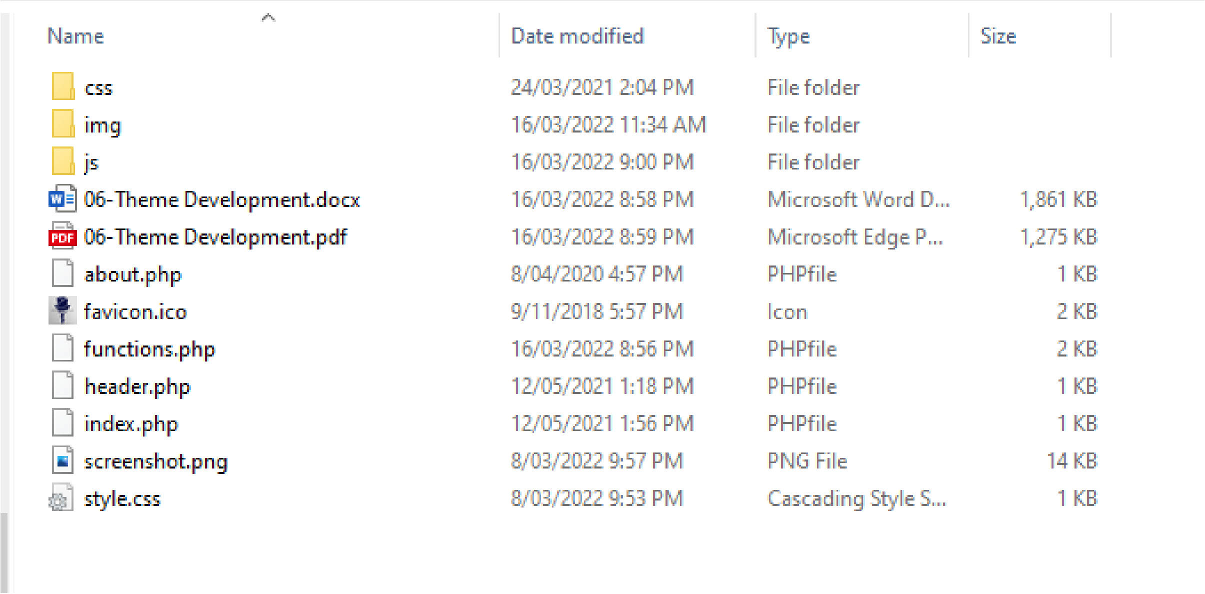
Place holder Screenshot

Tony Evans

Remove head Junk

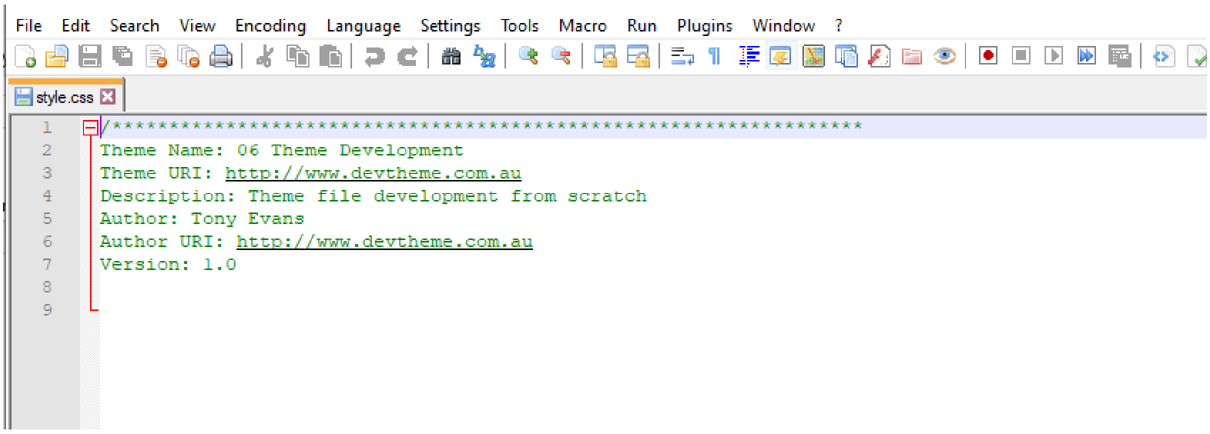
See next page for screenshots of what your page should look like

In this folder you can see the following:



Name	Date modified	Type	Size
css	24/03/2021 2:04 PM	File folder	
img	16/03/2022 11:34 AM	File folder	
js	16/03/2022 9:00 PM	File folder	
06-Theme Development.docx	16/03/2022 8:58 PM	Microsoft Word D...	1,861 KB
06-Theme Development.pdf	16/03/2022 8:59 PM	Microsoft Edge P...	1,275 KB
about.php	8/04/2020 4:57 PM	PHPfile	1 KB
favicon.ico	9/11/2018 5:57 PM	Icon	2 KB
functions.php	16/03/2022 8:56 PM	PHPfile	2 KB
header.php	12/05/2021 1:18 PM	PHPfile	1 KB
index.php	12/05/2021 1:56 PM	PHPfile	1 KB
screenshot.png	8/03/2022 9:57 PM	PNG File	14 KB
style.css	8/03/2022 9:53 PM	Cascading Style S...	1 KB

The files in this folder should look like 05 Theme Development. The root folder style.css file is still the same but just updated for the theme name.

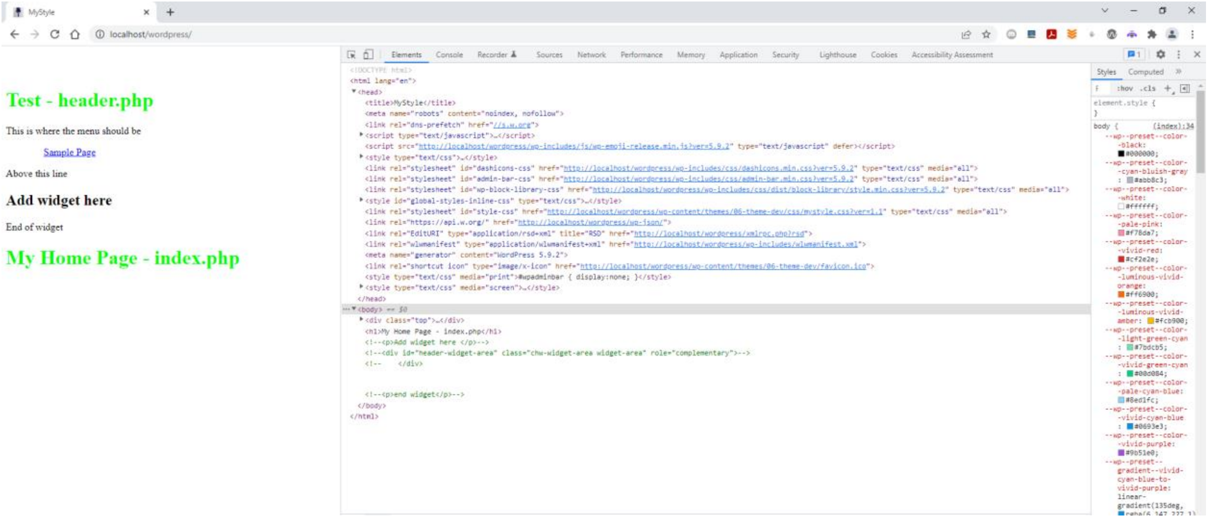

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
style.css

```
/*******************************************************************
Theme Name: 06 Theme Development
Theme URI: http://www.devtheme.com.au
Description: Theme file development from scratch
Author: Tony Evans
Author URI: http://www.devtheme.com.au
Version: 1.0
```

For this tutorial there are two issues to be addressed. One is the head information in WordPress and the other is pages to be included that link to the menu.

Head Junk

WordPress comes with a lot of information in the head of a page. As the example shows below.



Test - header.php

This is where the menu should be

Sample Page

Above this line

Add widget here

End of widget

My Home Page - index.php

```
<!DOCTYPE html>
<html lang="en">
▼<head>
   <title>MyStyle</title>
   <meta name="robots" content="noindex, nofollow">
   <link rel="dns-prefetch" href="//s.w.org">
  ▶<script type="text/javascript">…</script>
   <script src="http://localhost/wordpress/wp-includes/js/wp-emoji-release.min.js?ver=5.9.2" type="text/javascript" defer></script>
  ▶<style type="text/css">…</style>
   <link rel="stylesheet" id="dashicons-css" href="http://localhost/wordpress/wp-includes/css/dashicons.min.css?ver=5.9.2" type="text/css" media="all">
   <link rel="stylesheet" id="admin-bar-css" href="http://localhost/wordpress/wp-includes/css/admin-bar.min.css?ver=5.9.2" type="text/css" media="all">
   <link rel="stylesheet" id="wp-block-library-css" href="http://localhost/wordpress/wp-includes/css/dist/block-library/style.min.css?ver=5.9.2" type="text/css" media="all">
  ▶<style id="global-styles-inline-css" type="text/css">…</style>
   <link rel="stylesheet" id="style-css" href="http://localhost/wordpress/wp-content/themes/06-theme-dev/css/mystyle.css?ver=1.1" type="text/css" media="all">
   <link rel="https://api.w.org/" href="http://localhost/wordpress/wp-json/">
   <link rel="EditURI" type="application/rsd+xml" title="RSD" href="http://localhost/wordpress/xmlrpc.php?rsd">
   <link rel="wlwmanifest" type="application/wlwmanifest+xml" href="http://localhost/wordpress/wp-includes/wlwmanifest.xml">
   <meta name="generator" content="WordPress 5.9.2">
   <link rel="shortcut icon" type="image/x-icon" href="http://localhost/wordpress/wp-content/themes/06-theme-dev/favicon.ico">
   <style type="text/css" media="print">#wpadminbar { display:none; }</style>
  ▶<style type="text/css" media="screen">…</style>
 </head>
…▼<body> == $0
  ▶<div class="top">…</div>
   <h1>My Home Page - index.php</h1>
   <!--<p>Add widget here </p>-->
   <!--<div id="header-widget-area" class="chw-widget-area widget-area" role="complementary">-->
   <!--    </div>


   <!--<p>end widget</p>-->
 </body>
</html>
```

```
element.style {
}
body {                    (index):34
    --wp--preset--color--black: #000000;
    --wp--preset--color--cyan-bluish-gray: #abb8c3;
    --wp--preset--color--white: #ffffff;
    --wp--preset--color--pale-pink: #f78da7;
    --wp--preset--color--vivid-red: #cf2e2e;
    --wp--preset--color--luminous-vivid-orange: #ff6900;
    --wp--preset--color--luminous-vivid-amber: #fcb900;
    --wp--preset--color--light-green-cyan: #7bdcb5;
    --wp--preset--color--vivid-green-cyan: #00d084;
    --wp--preset--color--pale-cyan-blue: #8ed1fc;
    --wp--preset--color--vivid-cyan-blue: #0693e3;
    --wp--preset--color--vivid-purple: #9b51e0;
    --wp--preset--gradient--vivid-cyan-blue-to-vivid-purple: linear-gradient(135deg, rgba(6,147,227,1)
```

In amongst this information is JavaScript which should not be in the head and is deprecated because it contains “type=text/javascript”. There is also the WordPress version which is a security issue showing anyone who wants to hack the site what version to look up and find vulnerabilities – Simple google search will do this.

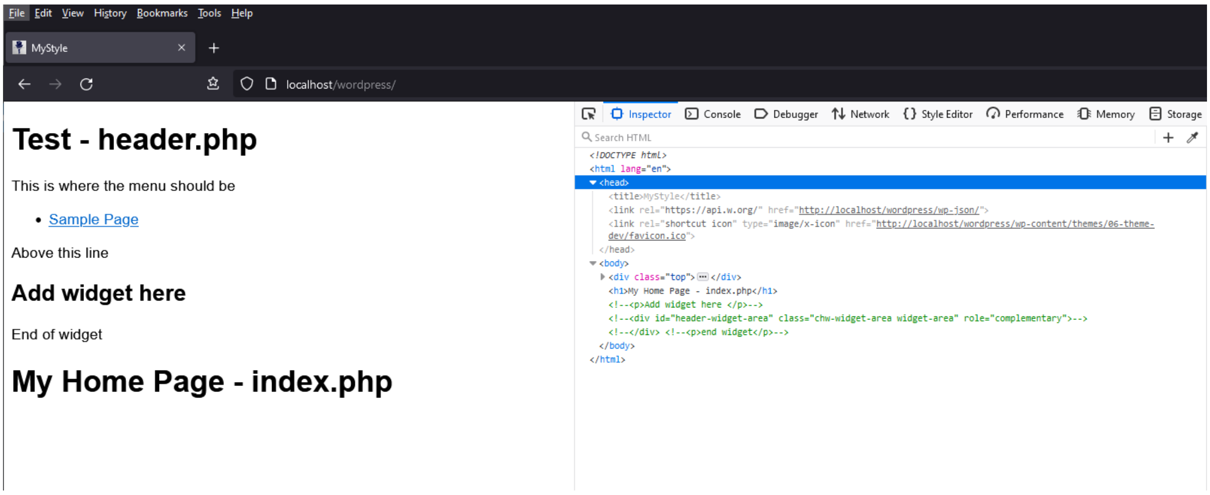
The only two that are valid is the ones that have been enqueued for the style sheet and the function for the favicon in the functions file.

There are two ways to deal with this information in the head and that is to remove some by writing more code in the “functions.php” file or just removing the “<?php wp_head(); ?>” in the “header.php” file.

In the functions.php” file add the following code:

```
// Remove junk from head
remove_action( 'wp_head', '_wp_render_title_tag', 1 );
//remove_action( 'wp_head', 'wp_enqueue_scripts', 1 );
remove_action( 'wp_head', 'wp_resource_hints', 2 );
remove_action( 'wp_head', 'feed_links', 2 );
remove_action( 'wp_head', 'feed_links_extra', 3 );
remove_action( 'wp_head', 'rsd_link' );
remove_action( 'wp_head', 'wlwmanifest_link' );
remove_action( 'wp_head', 'locale_stylesheet' );
remove_action( 'publish_future_post',
'check_and_publish_future_post', 10, 1 );
remove_action( 'wp_head', 'wp_robots', 1 );
remove_action( 'wp_head', 'print_emoji_detection_script', 7 );
remove_action( 'wp_head', 'wp_print_styles', 8 );
remove_action( 'wp_head', 'wp_print_head_scripts', 9 );
remove_action( 'wp_head', 'wp_generator' );
remove_action( 'wp_head', 'wp_shortlink_wp_head', 10, 0 );
remove_action( 'wp_head', 'wp_custom_css_cb', 101 );
remove_action( 'wp_head', 'wp_site_icon', 99 );
```

Save the file and view the code in the head of your page. It is a good idea to open another browser window so that the admin code does not appear as well.



Test - header.php

This is where the menu should be

- Sample Page

Above this line

Add widget here

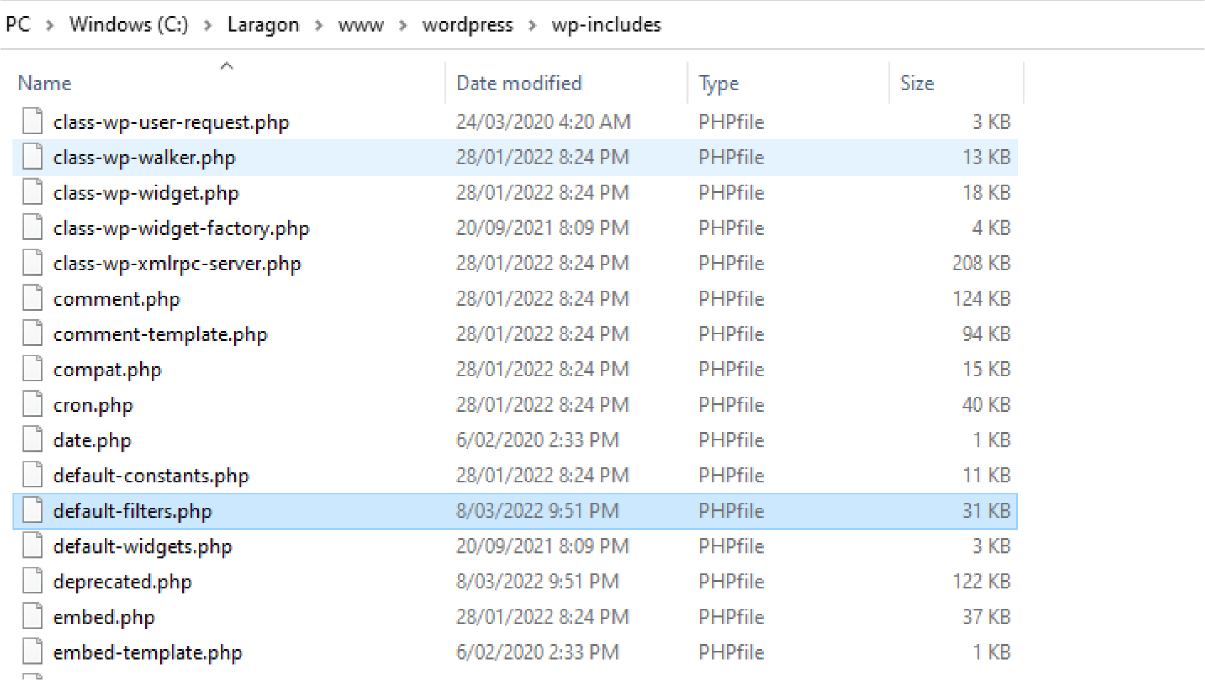
End of widget

My Home Page - index.php

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>MyStyle</title>
    <link rel="https://api.w.org/" href="http://localhost/wordpress/wp-json/">
    <link rel="shortcut icon" type="image/x-icon" href="http://localhost/wordpress/wp-content/themes/06-theme-
    dev/favicon.ico">
  </head>
  <body>
    <div class="top"> ⋯ </div>
    <h1>My Home Page - index.php</h1>
    <!--<p>Add widget here </p>-->
    <!--<div id="header-widget-area" class="chw-widget-area widget-area" role="complementary">-->
    <!--</div> <!--<p>end widget</p>-->
  </body>
</html>
```

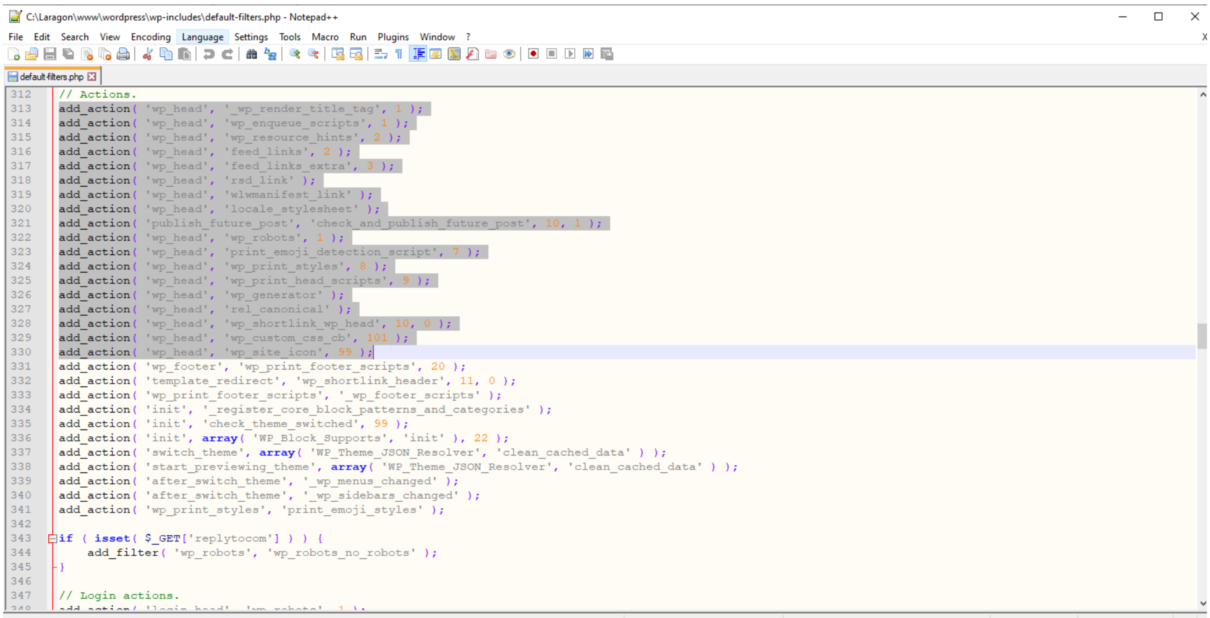
I opened this in Firefox to demonstrate. You will notice that there is a little less head information but has removed the css file. This can be tricky to work out what file should be removed. Try commenting some of them out and see what they do.

The information that is generated in the head are from a file in WordPress called “default_filters.php”. To find this file open the folder “wp-includes” and look for the file.



Name	Date modified	Type	Size
class-wp-user-request.php	24/03/2020 4:20 AM	PHPfile	3 KB
class-wp-walker.php	28/01/2022 8:24 PM	PHPfile	13 KB
class-wp-widget.php	28/01/2022 8:24 PM	PHPfile	18 KB
class-wp-widget-factory.php	20/09/2021 8:09 PM	PHPfile	4 KB
class-wp-xmlrpc-server.php	28/01/2022 8:24 PM	PHPfile	208 KB
comment.php	28/01/2022 8:24 PM	PHPfile	124 KB
comment-template.php	28/01/2022 8:24 PM	PHPfile	94 KB
compat.php	28/01/2022 8:24 PM	PHPfile	15 KB
cron.php	28/01/2022 8:24 PM	PHPfile	40 KB
date.php	6/02/2020 2:33 PM	PHPfile	1 KB
default-constants.php	28/01/2022 8:24 PM	PHPfile	11 KB
default-filters.php	8/03/2022 9:51 PM	PHPfile	31 KB
default-widgets.php	20/09/2021 8:09 PM	PHPfile	3 KB
deprecated.php	8/03/2022 9:51 PM	PHPfile	122 KB
embed.php	28/01/2022 8:24 PM	PHPfile	37 KB
embed-template.php	6/02/2020 2:33 PM	PHPfile	1 KB

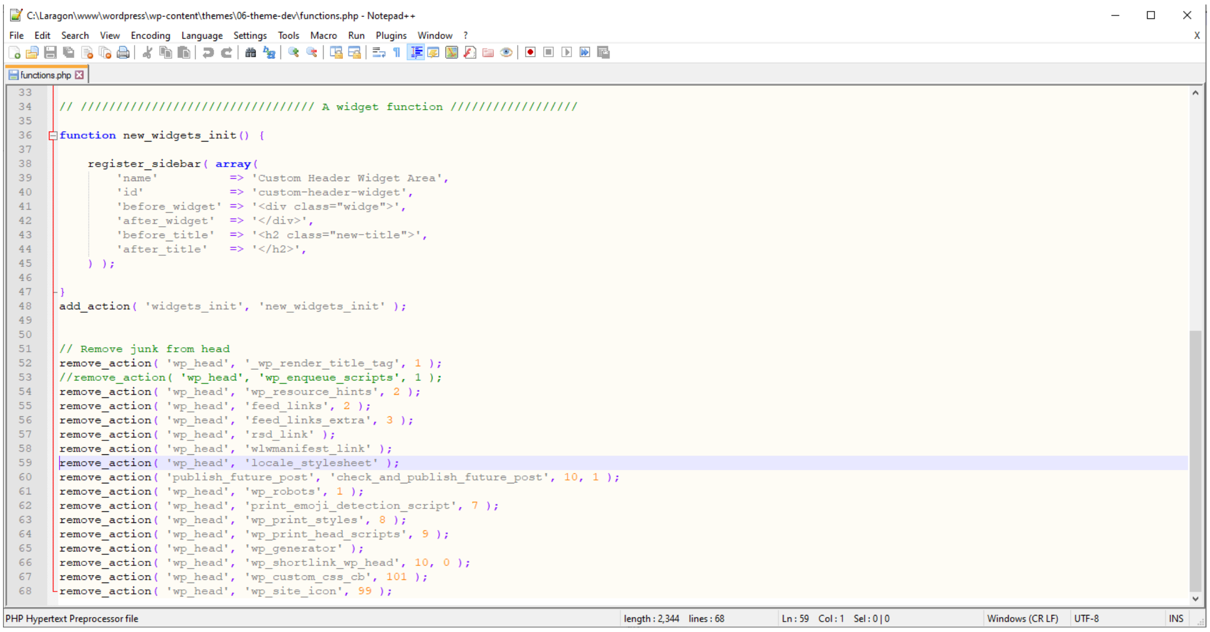
Open the file and scroll down to the comment “//Actions” around line 300.



C:\Laragon\www\wordpress\wp-includes\default-filters.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
default-filters.php

```php
// Actions.
add_action( 'wp_head', '_wp_render_title_tag', 1 );
add_action( 'wp_head', 'wp_enqueue_scripts', 1 );
add_action( 'wp_head', 'wp_resource_hints', 2 );
add_action( 'wp_head', 'feed_links', 2 );
add_action( 'wp_head', 'feed_links_extra', 3 );
add_action( 'wp_head', 'rsd_link' );
add_action( 'wp_head', 'wlwmanifest_link' );
add_action( 'wp_head', 'locale_stylesheet' );
add_action( 'publish_future_post', 'check_and_publish_future_post', 10, 1 );
add_action( 'wp_head', 'wp_robots', 1 );
add_action( 'wp_head', 'print_emoji_detection_script', 7 );
add_action( 'wp_head', 'wp_print_styles', 8 );
add_action( 'wp_head', 'wp_print_head_scripts', 9 );
add_action( 'wp_head', 'wp_generator' );
add_action( 'wp_head', 'rel_canonical' );
add_action( 'wp_head', 'wp_shortlink_wp_head', 10, 0 );
add_action( 'wp_head', 'wp_custom_css_cb', 101 );
add_action( 'wp_head', 'wp_site_icon', 99 );
add_action( 'wp_footer', 'wp_print_footer_scripts', 20 );
add_action( 'template_redirect', 'wp_shortlink_header', 11, 0 );
add_action( 'wp_print_footer_scripts', '_wp_footer_scripts' );
add_action( 'init', '_register_core_block_patterns_and_categories' );
add_action( 'init', 'check_theme_switched', 99 );
add_action( 'init', array( 'WP_Block_Supports', 'init' ), 22 );
add_action( 'switch_theme', array( 'WP_Theme_JSON_Resolver', 'clean_cached_data' ) );
add_action( 'start_previewing_theme', array( 'WP_Theme_JSON_Resolver', 'clean_cached_data' ) );
add_action( 'after_switch_theme', '_wp_menus_changed' );
add_action( 'after_switch_theme', '_wp_sidebars_changed' );
add_action( 'wp_print_styles', 'print_emoji_styles' );

if ( isset( $_GET['replytocom'] ) ) {
    add_filter( 'wp_robots', 'wp_robots_no_robots' );
}

// Login actions.
add_action( 'login_head', 'wp_robots', 1 );
```

Do not edit this page as you would be directly editing the WordPress installation. The idea of creating themes is that they are portable and does not matter on which installation of WordPress you install the theme. Instead, what we have done is to edit the functions file and copied the above code and changed the "add_action" to "remove_action". This counteracts the default action in WordPress.



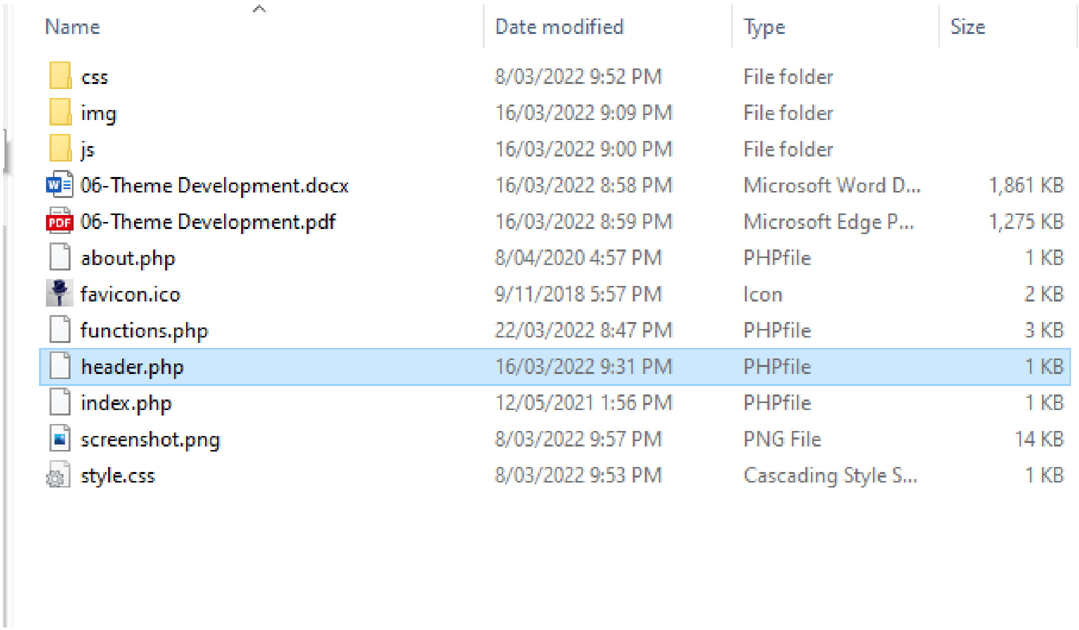
C:\Laragon\www\wordpress\wp-content\themes\06-theme-dev\functions.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
functions.php

```php

// ///////////////////////////////// A widget function /////////////////

function new_widgets_init() {

    register_sidebar( array(
        'name'          => 'Custom Header Widget Area',
        'id'            => 'custom-header-widget',
        'before_widget' => '<div class="widge">',
        'after_widget'  => '</div>',
        'before_title'  => '<h2 class="new-title">',
        'after_title'   => '</h2>',
    ) );

}
add_action( 'widgets_init', 'new_widgets_init' );


// Remove junk from head
remove_action( 'wp_head', '_wp_render_title_tag', 1 );
//remove_action( 'wp_head', 'wp_enqueue_scripts', 1 );
remove_action( 'wp_head', 'wp_resource_hints', 2 );
remove_action( 'wp_head', 'feed_links', 2 );
remove_action( 'wp_head', 'feed_links_extra', 3 );
remove_action( 'wp_head', 'rsd_link' );
remove_action( 'wp_head', 'wlwmanifest_link' );
remove_action( 'wp_head', 'locale_stylesheet' );
remove_action( 'publish_future_post', 'check_and_publish_future_post', 10, 1 );
remove_action( 'wp_head', 'wp_robots', 1 );
remove_action( 'wp_head', 'print_emoji_detection_script', 7 );
remove_action( 'wp_head', 'wp_print_styles', 8 );
remove_action( 'wp_head', 'wp_print_head_scripts', 9 );
remove_action( 'wp_head', 'wp_generator' );
remove_action( 'wp_head', 'wp_shortlink_wp_head', 10, 0 );
remove_action( 'wp_head', 'wp_custom_css_cb', 101 );
remove_action( 'wp_head', 'wp_site_icon', 99 );
```

PHP Hypertext Preprocessor file
length : 2,344 lines : 68
Ln : 59 Col : 1 Sel : 0 | 0
Windows (CR LF)
UTF-8
INS

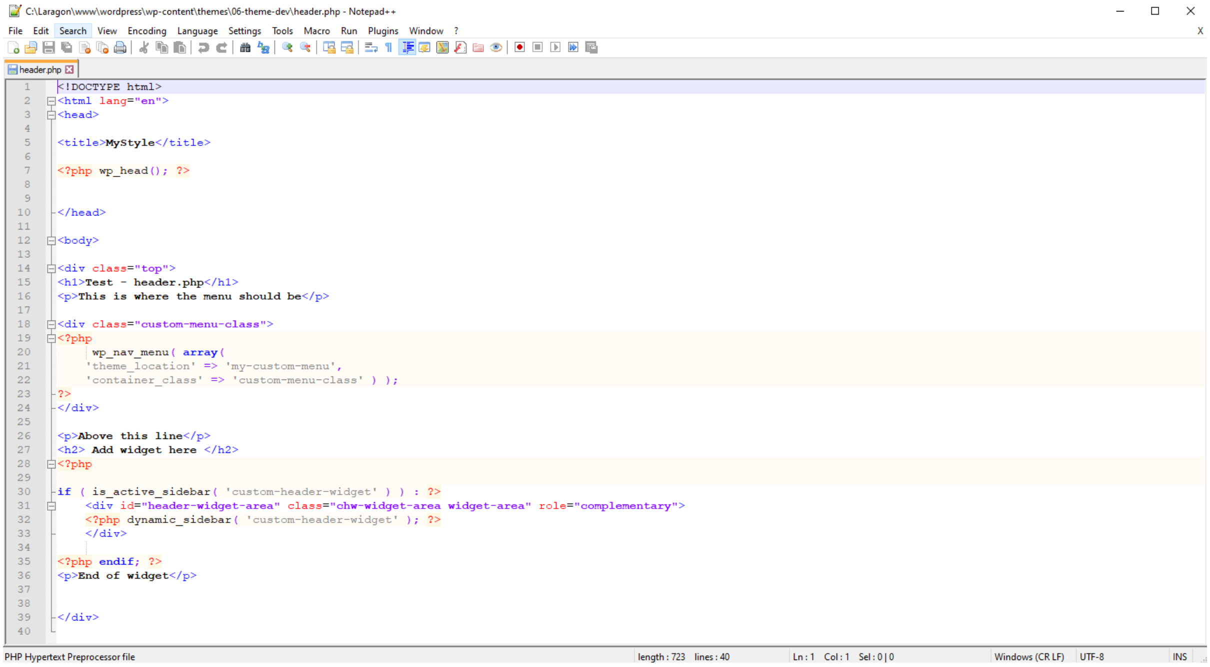
This is one way to deal with the "head Junk" and the other way is to completely remove it by not including the head.

Open the "header.php" file.



Name	Date modified	Type	Size
css	8/03/2022 9:52 PM	File folder	
img	16/03/2022 9:09 PM	File folder	
js	16/03/2022 9:00 PM	File folder	
06-Theme Development.docx	16/03/2022 8:58 PM	Microsoft Word D...	1,861 KB
06-Theme Development.pdf	16/03/2022 8:59 PM	Microsoft Edge P...	1,275 KB
about.php	8/04/2020 4:57 PM	PHPfile	1 KB
favicon.ico	9/11/2018 5:57 PM	Icon	2 KB
functions.php	22/03/2022 8:47 PM	PHPfile	3 KB
header.php	16/03/2022 9:31 PM	PHPfile	1 KB
index.php	12/05/2021 1:56 PM	PHPfile	1 KB
screenshot.png	8/03/2022 9:57 PM	PNG File	14 KB
style.css	8/03/2022 9:53 PM	Cascading Style S...	1 KB

In notepad you should see the php calling for the head “wp_head”.



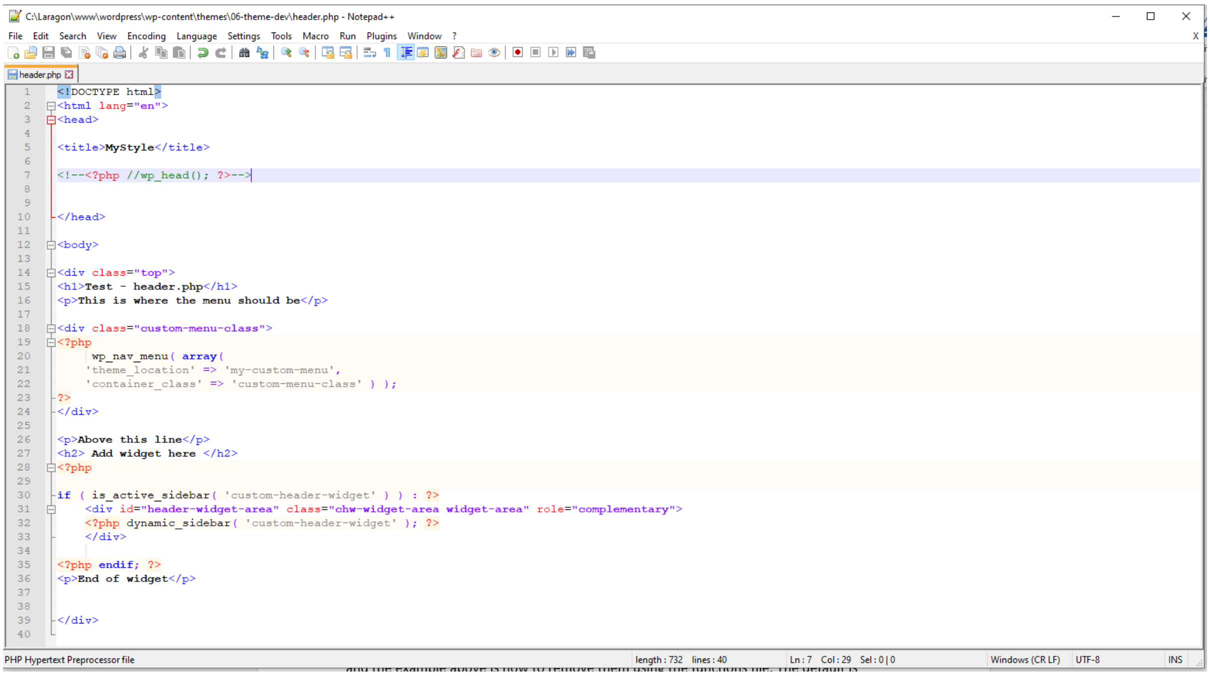
C:\Laragon\www\wordpress\wp-content\themes\06-theme-dev\header.php - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
header.php

```
<!DOCTYPE html>
<html lang="en">
<head>

<title>MyStyle</title>

<?php wp_head(); ?>


</head>

<body>

<div class="top">
<h1>Test - header.php</h1>
<p>This is where the menu should be</p>

<div class="custom-menu-class">
<?php
    wp_nav_menu( array(
    'theme_location' => 'my-custom-menu',
    'container_class' => 'custom-menu-class' ) );
?>
</div>

<p>Above this line</p>
<h2> Add widget here </h2>
<?php

if ( is_active_sidebar( 'custom-header-widget' ) ) : ?>
    <div id="header-widget-area" class="chw-widget-area widget-area" role="complementary">
    <?php dynamic_sidebar( 'custom-header-widget' ); ?>
    </div>

<?php endif; ?>
<p>End of widget</p>


</div>

```

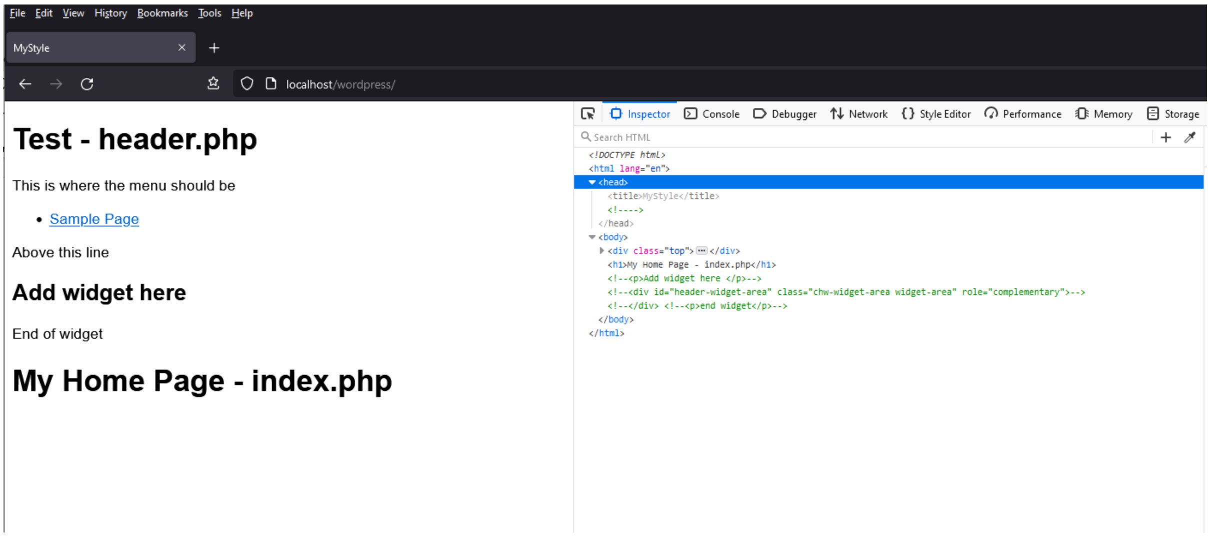
PHP Hypertext Preprocessor file
length : 723 lines : 40
Ln : 1 Col : 1 Sel : 0 | 0
Windows (CR LF)
UTF-8
INS

Comment this out.


C:\Laragon\www\wordpress\wp-content\themes\06-theme-dev\header.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
header.php
PHP Hypertext Preprocessor file
length : 732 lines : 40
Ln : 7 Col : 29 Sel : 0 | 0
Windows (CR LF) UTF-8 INS

```
<!DOCTYPE html>
<html lang="en">
<head>

<title>MyStyle</title>

<!--<?php //wp_head(); ?>-->


</head>

<body>

<div class="top">
<h1>Test - header.php</h1>
<p>This is where the menu should be</p>

<div class="custom-menu-class">
<?php
     wp_nav_menu( array(
    'theme_location' => 'my-custom-menu',
    'container_class' => 'custom-menu-class' ) );
?>
</div>

<p>Above this line</p>
<h2> Add widget here </h2>
<?php

if ( is_active_sidebar( 'custom-header-widget' ) ) : ?>
    <div id="header-widget-area" class="chw-widget-area widget-area" role="complementary">
    <?php dynamic_sidebar( 'custom-header-widget' ); ?>
    </div>

<?php endif; ?>
<p>End of widget</p>


</div>

```

Save it and then have a look at the page in the browser.


File Edit View History Bookmarks Tools Help
MyStyle
localhost/wordpress/
Inspector Console Debugger Network Style Editor Performance Memory Storage
Search HTML

Test - header.php

This is where the menu should be

- Sample Page

Above this line

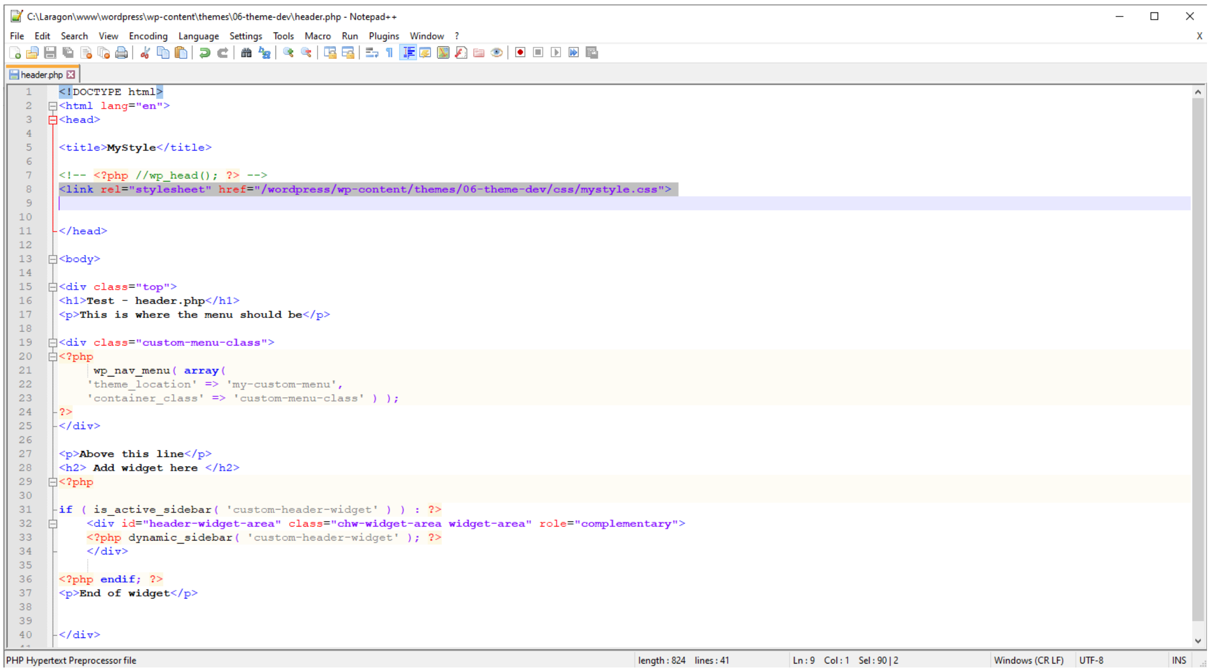
Add widget here

End of widget

My Home Page - index.php

```
<!DOCTYPE html>
<html lang="en">
▾ <head>
    <title>MyStyle</title>
    <!---->
  </head>
▾ <body>
  ▸ <div class="top"> ⋯ </div>
    <h1>My Home Page - index.php</h1>
    <!--<p>Add widget here </p>-->
    <!--<div id="header-widget-area" class="chw-widget-area widget-area" role="complementary">-->
    <!--</div> <!--<p>end widget</p>-->
  </body>
</html>
```

You can now see that there is no information in the head. This is where you can now add your own information, such as the style sheet and any JavaScript.



C:\Laragon\www\wordpress\wp-content\themes\06-theme-dev\header.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
header.php
PHP Hypertext Preprocessor file
length : 824 lines : 41
Ln : 9 Col : 1 Sel : 90 | 2
Windows (CR LF)
UTF-8
INS

```
<!DOCTYPE html>
<html lang="en">
<head>

<title>MyStyle</title>

<!-- <?php //wp_head(); ?> -->
<link rel="stylesheet" href="/wordpress/wp-content/themes/06-theme-dev/css/mystyle.css">


</head>

<body>

<div class="top">
<h1>Test - header.php</h1>
<p>This is where the menu should be</p>

<div class="custom-menu-class">
<?php
     wp_nav_menu( array(
    'theme_location' => 'my-custom-menu',
    'container_class' => 'custom-menu-class' ) );
?>
</div>

<p>Above this line</p>
<h2> Add widget here </h2>
<?php

if ( is_active_sidebar( 'custom-header-widget' ) ) : ?>
    <div id="header-widget-area" class="chw-widget-area widget-area" role="complementary">
    <?php dynamic_sidebar( 'custom-header-widget' ); ?>
    </div>

<?php endif; ?>
<p>End of widget</p>


</div>
```

This now completely negates the need for the “wp_enqueue_style” in the “functions.php” file. This is a decision that you will need to make considering WordPress default actions or hard coding for your client.

Either way looking at the code in each they are the same for the style link.

You can start to work on the next steps. See 07-Theme Development