

Installing Wordpress:

Create and Edit wp-config

```
// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define('DB_NAME', 'wp_test');

/** MySQL database username */
define('DB_USER', 'root');

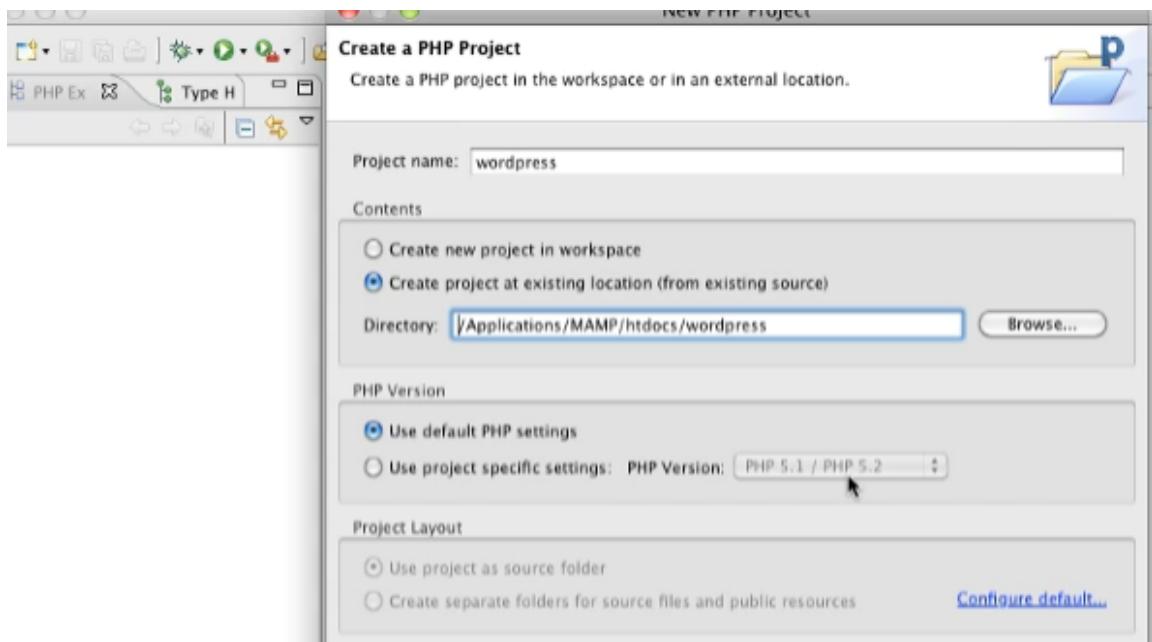
/** MySQL database password */
define('DB_PASSWORD', 'password_here');

/** MySQL hostname */
define('DB_HOST', 'localhost');

/**#@+
 * Authentication Unique Keys and Salts.
 *
 * Change these to different unique phrases!
 * You can generate these using the {@link https://api.wordpress.org/secret-key/1.1/salt/} WordPress.org
 * secret-key service
 * You can change these at any point in time to invalidate all existing cookies. This will force all users
 * to have to log in again.
 *
 * @since 2.6.0
 */
define('AUTH_KEY',         'put your unique phrase here');
define('SECURE_AUTH_KEY',  'put your unique phrase here');
define('LOGGED_IN_KEY',    'put your unique phrase here');
define('NONCE_KEY',        'put your unique phrase here');
define('AUTH_SALT',        'put your unique phrase here');
define('SECURE_AUTH_SALT', 'put your unique phrase here');
define('LOGGED_IN_SALT',   'put your unique phrase here');
define('NONCE_SALT',       'put your unique phrase here');

/**#@-
```

Setup Development Environment



Securing Wordpress

- Use Strong Password
- Don't Use Admin username
- You can Change the Table Prefix
- Move the wp-config one directory up

To protect your wp-config.php file, place this in your .htaccess file:

```
<Files wp-config.php>
order allow,deny
deny from all
</Files>
```

}

- For SSL Sites

put this in your wp-config.php file:

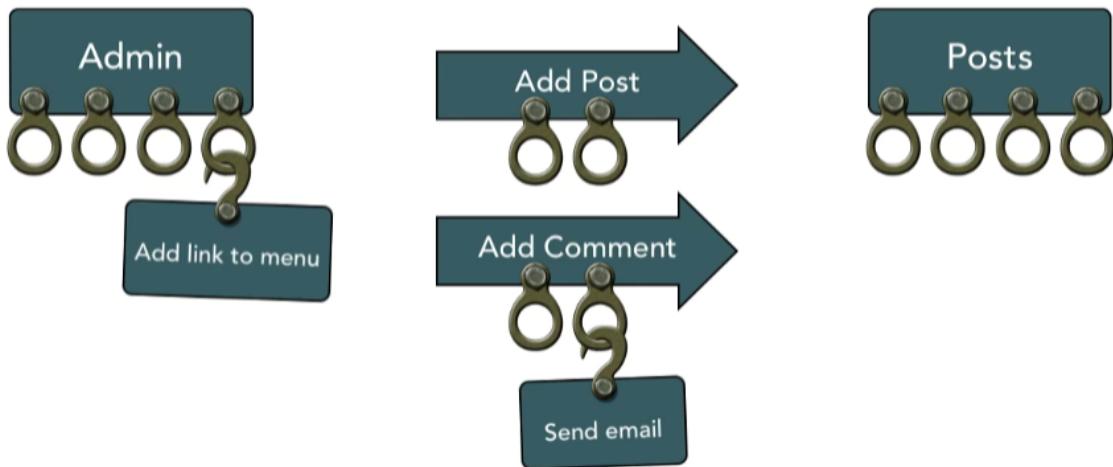
```
define('FORCE_SSL_ADMIN', true);
```

o

RSS Feeds: <http://feedburner.google.com/fb/a/emailsyndicationSubmit>

0204 Introduction to hooks http://codex.wordpress.org/Plugin_API

WORDPRESS: HOOKS



http://adambrown.info/p/wp_hooks

http://codex.wordpress.org/Writing_a_Plugin#License

0301 Creating the plugin PHP file(s).mov

Steps:

- 0301 Creating the plugin PHP file(s).mov Create a Unique Plugin Folder
- Create an index.php

```
1 <?php
2 /*
3 Plugin Name: Drew's Awesome Widget
4 Plugin URI: http://www.falkonproductions.com/first_plugin
5 Description: This plugin does awesome things
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com
9
10 Copyright 2010 Drew Falkman
11
12 This program is free software; you can redistribute it and/or modify
13 it under the terms of the GNU General Public License, version 2, as
14 published by the Free Software Foundation.
15
16 This program is distributed in the hope that it will be useful,
17 but WITHOUT ANY WARRANTY; without even the implied warranty of
18 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
19 GNU General Public License for more details.
20
21 You should have received a copy of the GNU General Public License
22 along with this program; if not, write to the Free Software
23 Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
24 */
```

0302 More on hooks Actions and filters.mov

1. [Actions](http://codex.wordpress.org/Plugin_API/Action_Reference): Actions are the hooks that the WordPress core launches at specific points during execution, or when specific events occur. Your plugin can specify that one or more of its PHP functions are executed at these points, using the Action API.
 1. http://codex.wordpress.org/Plugin_API/Action_Reference
2. [Filters](http://codex.wordpress.org/Plugin_API/Filter_Reference): Filters are the hooks that WordPress launches to modify text of various types before adding it to the database or sending it to the browser screen. Your plugin can specify that one or more of its PHP functions is executed to modify specific types of text at these times, using the Filter API.
 1. http://codex.wordpress.org/Plugin_API/Filter_Reference

0303 Installation and activation.mov

Example Code To Check Wordpress Version

```
P *copyright_plugin.php X
1 <?php
2 /*
3 Plugin Name: My copyright plugin
4 Plugin URI: http://www.falkonproductions.com/copyright_plugin/
5 Description: This plugin leaves a copyright stamp.
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11 global $wp_version;
12
13 if ( !version_compare($wp_version,"3.0",">=") )
14 {
15     die("You need at least version 3.0 of Wordpress to use the copyright plugin");
16 }
```

0304 Writing activation code.mov

```
activate_plugin.php X
1 <?php
2 /*
3 Plugin Name: Drew's Activated Plugin
4 Plugin URI: http://www.falkonproductions.com/activatedPlugin/
5 Description: This plugin will get activated
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11 function my_plugin_activate()
12 {
13     // db create, create options, etc.
14     error_log("my plugin activated");
15 }
16
17 register_activation_hook(__FILE__,"my_plugin_activate");
```

PHP error log in MAMP: /Applications/MAMP/logs/

PHP error log in WAMP: c:\Program Files\WAMP\logs

```
function my_plugin_deactivate()
{
    error_log("my plugin deactivated");
}

register_deactivation_hook(__FILE__, "my_plugin_deactivate");
```

0305 Writing an action.mov

```
cc_comment.php ✘
1 <?php
2 /*
3 Plugin Name: CC Comment Plugin
4 Plugin URI: http://www.falkonproductions.com/ccComment/
5 Description: This plugin sends an email when a comment is made
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11 function cc_comment()
12 {
13     global $_REQUEST;
14
15     $to = "drew@somewhere.com";
16     $subject = "New comment posted @ yourblog " . $_REQUEST['subject'];
17     $message = "Message from: " . $_REQUEST['name'] . " at email " . $_REQUEST['email'] .
18             ": \n" . $_REQUEST['comments'];
19     mail($to,$subject,$message);
20 }
21
22 add_action('comment_post','cc_comment');
```

0306 Writing a filter.mov

```
*feed_copyrighter.php ✘
1 <?php
2 /*
3 Plugin Name: Content Watermark Plugin
4 Plugin URI: http://www.falkonproductions.com/ccComment/
5 Description: This plugin will add a "watermark" to content
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11 function cwp_add_content_watermark( $content )
12 {
13     if ( is_feed() )
14     {
15         return $content . ' Created by Falkon Productions, copyright ' .
16                     date('Y') .
17                     ' all rights reserved.';
18     }
19
20     return $content;
21 }
22
23 add_filter('the_content','cwp_add_content_watermark');
```

See: <http://localhost:8888/wordpress/?feed=rss2>

0307 About pluggable functions.mov

<http://core.trac.wordpress.org/browser/tags/3.0.1/wp-includes/pluggable.php>

For Example: wp_mail

```
<?php wp_mail( $to, $subject, $message, $headers, $attachments ); ?>
```

Original Code From Previous Exercise

```
cc_comment.php ✘
1 <?php
2 /*
3 Plugin Name: CC Comment Plugin
4 Plugin URI: http://www.falkonproductions.com/ccComment/
5 Description: This plugin sends an email when a comment is made
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11@ function cc_comment()
12 {
13     global $_REQUEST;
14
15     $to = "drew@somewhere.com";
16     $subject = "New comment posted @ yourblog " . $_REQUEST['subject'];
17     $message = "Message from: " . $_REQUEST['name'] . " at email " . $_REQUEST['email'] .
18             ": \n" . $_REQUEST['comments'];
19     mail($to,$subject,$message);
20 }
21
22 add_action('comment_post','cc_comment');
```

Using the Pluggable PHP

```
cc_comment.php ✘
1 <?php
2 /*
3 Plugin Name: CC Comment Plugin
4 Plugin URI: http://www.falkonproductions.com/ccComment/
5 Description: This plugin sends an email when a comment is made
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11@ function cc_comment()
12 {
13     global $_REQUEST;
14
15     $to = "drew@somewhere.com";
16     $subject = "New comment posted @ yourblog " . $_REQUEST['subject'];
17     $message = "Message from: " . $_REQUEST['name'] . " at email " . $_REQUEST['email'] .
18             ": \n" . $_REQUEST['comments'];
19     wp_mail($to,$subject,$message);
20 }
21
22 add_action('comment_post','cc_comment');
```

0308 Writing a pluggable function.mov

Copy the Original Pluggable Functions from Pluggable php file

```

  welcome.php      pluggable.php X
1193 function wp_new_user_notification($user_id, $plaintext_pass = '') {
1194     $user = new WP_User($user_id);
1195
1196     $user_login = stripslashes($user->user_login);
1197     $user_email = stripslashes($user->user_email);
1198
1199     // The blogname option is escaped with esc_html on the way into the database in sanitize_option
1200     // we want to reverse this for the plain text arena of emails.
1201     $blogname = wp_specialchars_decode(get_option('blogname'), ENT_QUOTES);
1202
1203     $message = sprintf__(__('New user registration on your site %s'), $blogname) . "\r\n\r\n";
1204     $message .= sprintf__(__('Username: %s'), $user_login) . "\r\n\r\n";
1205     $message .= sprintf__(__('E-mail: %s'), $user_email) . "\r\n";
1206
1207     @wp_mail(get_option('admin_email'), sprintf__( "[%s] New User Registration"), $blogname), $message);
1208
1209     if ( empty($plaintext_pass) )
1210         return;
1211
1212     $message = sprintf__(__('Username: %s'), $user_login) . "\r\n";
1213     $message .= sprintf__(__('Password: %s'), $plaintext_pass) . "\r\n";
1214     $message .= wp_login_url() . "\r\n";
1215
1216     wp_mail($user_email, sprintf__( "[%s] Your username and password"), $blogname), $message);
1217
1218 }

```

Modify the Original Pluggable Functions in your plugin

```

15     $user_login = stripslashes($user->user_login);
16     $user_email = stripslashes($user->user_email);
17
18     // The blogname option is escaped with esc_html on the way into the database in sanitize_option
19     // we want to reverse this for the plain text arena of emails.
20     $blogname = wp_specialchars_decode(get_option('blogname'), ENT_QUOTES);
21
22     $message = sprintf__(__('New user registration on your site %s'), $blogname) . "\r\n\r\n";
23     $message .= sprintf__(__('Username: %s'), $user_login) . "\r\n\r\n";
24     $message .= sprintf__(__('E-mail: %s'), $user_email) . "\r\n";
25
26     @wp_mail(get_option('admin_email'), sprintf__( "[%s] New User Registration"), $blogname), $message);
27
28     if ( empty($plaintext_pass) )
29         return;
30
31     $message = __('Welcome to mmmStuff.com') . "\r\n\r\n";
32     $message .= __('Here is your information for future reference: ') . "\r\n\r\n";
33     $message .= sprintf__(__('Username: %s'), $user_login) . "\r\n";
34     $message .= sprintf__(__('Password: %s'), $plaintext_pass) . "\r\n";
35     $message .= wp_login_url() . "\r\n";
36     $message .= __('Feel free to come back and check on stuff often');
37
38     wp_mail($user_email, sprintf__( "[%s] Your username and password"), $blogname), $message);
39

```

Make sure to check if the function already exist, So there is no conflict

```

11 // override the wp_new_user_notification pluggable function
12 if ( !function_exists('wp_new_user_notification'))
13 {}
14@ function wp_new_user_notification($user_id, $plaintext_pass = '') {

```

0309 Using template tags.mov

http://codex.wordpress.org/Template_Tags

0310 Introducing shortcode.mov

```
*smp_map_it.php ✘
1 <?php
2 /*
3 Plugin Name: Map plugin using shortcode
4 Plugin URI: http://www.falkonproductions.com/shortcodeMaps/
5 Description: This plugin will get a map of whatever parameter is passed.
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11@function smp_map_it()
12 {
13     $addr = "1600 Pennsylvania Ave. Washington, D.C.";
14     $base_map_url = 'http://maps.google.com/maps/api/staticmap?sensor=false&size=2
15     ?>
16     <h2>Your map:</h2>
17     
19     <?php
20 }
21
22 add_shortcode('map-it','smp_map_it');
23
```

[map-it]

A shortcode that takes argument

```
*smp_map_it.php ✘
1 <?php
2 /*
3 Plugin Name: Map plugin using shortcode
4 Plugin URI: http://www.falkonproductions.com/shortcodeMaps/
5 Description: This plugin will get a map of whatever parameter is passed.
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11@function smp_map_it($atts,$content=null)
12 {
13     shortcode_atts( array('title'=>'Your Map:', 'address'=>''), $atts);
14     $base_map_url = 'http://maps.google.com/maps/api/staticmap?sensor=false&size=256x256&fo
15     return '
16     <h2>'.$atts['title']. '</h2>
17     ';
19 }
20
21
22 add_shortcode('map-it','smp_map_it');
23
```

[map-it title="Our Location:" address="100 Main St, Santa Monica, CA"]

0401 Widgets and the WordPress Widgets SubPanel.mov

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0402 Comparing widgets and plugins.mov

Widgets are always a plugin, but a plugin is not always a widget

0403 Using and customizing built-in widgets.mov

Registering Widgets Area inside functions.php

```
function twentyeleven_widgets_init() {  
  
    register_widget( 'Twenty_Eleven_Ephemera_Widget' );  
  
    • register_sidebar( array(  
        'name' => __( 'Header Logo', 'twentyeleven' ),  
        'id' => 'header-1',  
        'description' => __( 'An optional widget area for your site Header', 'twentyeleven' ),  
        'before_widget' => '<aside id="%1$s" class="widget %2$s">',  
        'after_widget' => "</aside>",  
        'before_title' => '<h3 class="widget-title">',  
        'after_title' => '</h3>',  
    ) );  
    • add_action( 'widgets_init', 'twentyeleven_widgets_init' );
```

Using the Registered Widgets Area

```
• <div id="widget-logo"><?php if ( !function_exists('dynamic_sidebar') || !dynamic_sidebar('header-1') ) : ?>  
    • <?php endif;?></div>
```

0404 Creating a new widget.mov

Developing Widgets Before wordpress 2.8

```
• http://codex.wordpress.org/Widgets\_API#Developing\_Widgets\_before\_2.8  
  
    function widget_myuniquewidget($args) {  
        extract($args);  
    ?>  
        <?php echo $before_widget; ?>  
        <?php echo $before_title  
            , 'My Unique Widget'  
            , $after_title; ?>  
        Hello, World!  
        <?php echo $after_widget; ?>  
    <?php  
    }  
    register_sidebar_widget('My Unique Widget',  
        'widget_myuniquewidget');
```

Developing Widgets on or after wordpress 2.8

- [http://codex.wordpress.org/Widgets API](http://codex.wordpress.org/Widgets_API)

```

class My_Widget extends WP_Widget {

    public function __construct() {
        // widget actual processes
    }

    public function form( $instance ) {
        // outputs the options form on admin
    }

    public function update( $new_instance, $old_instance ) {
        // processes widget options to be saved
    }

    public function widget( $args, $instance ) {
        // outputs the content of the widget
    }

}

register_widget( 'My_Widget' );

```

- Example:

```

11@ class SimpleWidget extends WP_Widget
12{
13@     function SimpleWidget()
14{
15
16}
17
18@     function widget($args, $instance)
19{
20        extract( $args, EXTR_SKIP );
21        $title = ( $instance['title'] ) ? $instance['title'] : 'A simple widget';
22
23}
24
25@     function update()
26{
27
28}
29
30@     function form()
31{
32
33}

```

- The extract() function imports variables into the local symbol table from an array.

- extract(array,extract_rules,prefix)

```

18  function widget($args, $instance)
19  {
20      extract( $args, EXTR_SKIP );
21      $title = ( $instance['title'] ) ? $instance['title'] : 'A simple widget';
22      $body = ( $instance['body'] ) ? $instance['body'] : 'A simple message';
23      ?
24      <?php echo $before_widget; ?>
25      <?php echo $before_title . $title . $after_title ?>
26      <p><?php echo $body ?></p>
27      <?php |
28
29  }

```

- Register the Widget: `widget_init`

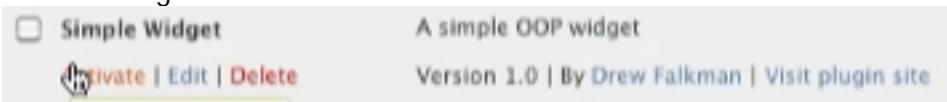
- Make this outside the class

```

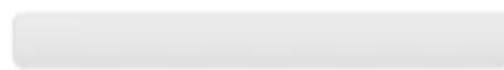
41  function simple_widget_init()
42  {
43      register_widget("SimpleWidget");
44  }
45  add_action('widgets_init','simple_widget_init');

```

- View in Plugins Area



- View in Widgets Page



- View when widgets is used

A simple widget

A simple message

- Setting up the constructor

```

13  function SimpleWidget()
14  {
15      $widget_options = array(
16          'classname'    => 'simple-widget',
17          'description'  => 'Just a simple widget');
18
19      parent::WP_Widget('simple_widget','Simple Widget', $widget_options);
20  }

```

- http://phpdoc.wordpress.org/trunk/WordPress/Widgets/WP_Widget.html
- `WP_Widget __construct ([string $id_base = false], string $name, [array $widget_options = array()], [array $control_options = array()])`
- View in Widgets Page

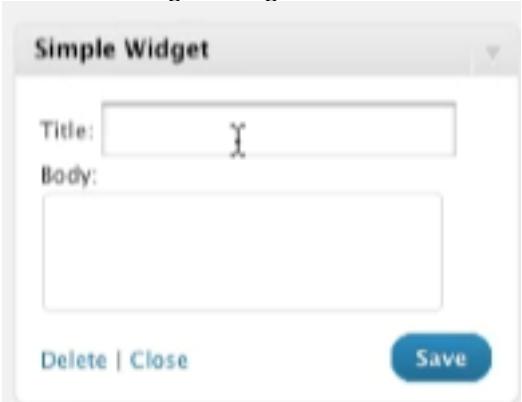
Simple Widget

Just a simple widget

0406 Enabling configuration of widgets.mov

```
39  function form( $instance )
40  {
41      ?>
42      <label for=<?php echo $this->get_field_id('title');?>>
43      Title:
44      <input id=<?php echo $this->get_field_id('title');?>" name=<?php echo $this->get_field_name('title'); ?>" value=<?php echo esc_attr($instance['title']); ?>" />
45      </label>
46      <label for=<?php echo $this->get_field_id('body');?>>
47      Body:
48      <textarea id=<?php echo $this->get_field_id('body');?>" name=<?php echo $this->get_field_name('body'); ?>"><?php echo esc_attr($instance['body']);?></te
49      </label>
50      <?php
51  }
52
53
54 }
```

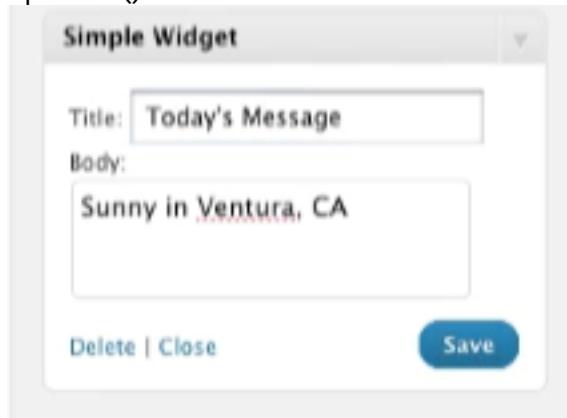
- View in Widgets Page



- Delete

```
34  function update()
35  {
36
37  }
38
```

- Because all we want is to save the data inputted in Simple Widget
- If update() is deleted, the plugin will use the wp_widgets default updated()



- Today's Message
- Sunny in Ventura, CA
- Update()
 - This is optional if you want to use data scrubbing
 - It takes 2 argument the old and new instance

0501 Creating an admin interface.mov

```

11 function cc_comment()
12 {
13     global $_REQUEST;
14
15     $to = "drew@somewhere.com";
16     $subject = "New comment posted @ yourblog " . $_REQUEST['subject'];
17     $message = "Message from: " . $_REQUEST['name'] . " at email " . $_REQUEST['email'] .
18             ": \n" . $_REQUEST['comments'];
19     wp_mail($to,$subject,$message);
20 }
21
22 add_action('comment_post','cc_comment');
23
24 function cccomm_option_page()
25 {
26     ?>
27     <div class="wrap">
28     <?php screen_icon(); ?>
29     <h2>CC Comments Options</h2>
30     <p>Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.</p>
31     </div>
32     <?php
33 }
```

http://codex.wordpress.org/Roles_and_Capabilities

Registering Admin Pages For Plugin

```

35 function cccomm_plugin_menu()
36 {
37     add_options_page('CC Comments Settings','CC Comments','manage_options','cc-comments-plugin','cccomm_option'.
38 } ?
```

- The last words are cut because it is too long, but all it is, is to call the function name

Calling the registered page

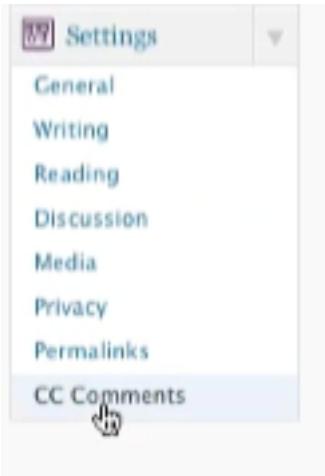
- `add_action('admin_menu','cccomm_plugin_menu');`

View in Settings

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A screenshot of a web browser displaying the CC Comments Options page. The URL is http://localhost:8888/wordpress/wp-admin/options-general.php?page=cc-comments-plugin. The page title is 'CC Comments Options'. A sub-header says 'Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.' There is a form with a text input field and a submit button.

0502 Saving data to the database.mov

Saving Inputted Options Information

```
24 function cccomm_option_page()
25 {
26     ?>
27     <div class="wrap">
28         <?php screen_icon(); ?>
29         <h2>CC Comments Options</h2>
30         <p>Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.</p>
31         <form action="" method="post" id="cc-comments-email-options-form">
32             <h3><label for="cc_email">Email to send CC to:</label>
33             <input type="text" id="cc_email" name="cc_email"
34                 value="<?php echo esc_attr(get_option('cccomm_cc_email')); ?>" /></h3>
35             <p><input type="submit" name="submit" value="Save Email" />|</p>
36         </form>
37     </div>
38     <?php
39 }
```



CC Comments Options

Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.

Email to send CC to:

Add This Line of Code

```
24@ function cccomm_option_page()
25{
26    if ( $_POST['cccomm_hidden'] == 'Y' )
27    {
28        update_option('cccomm_cc_email',$_POST['cc_email']);
29        ?>
30        <div id="message" class="updated">Email was saved for CC Comments</div>
31        <?php
32    }
33
34    ?>
35@ <div class="wrap">
36    <?php screen_icon(); ?>
37    <h2>CC Comments Options</h2>
38    <input type="hidden" name="cccomm_hidden" value="Y" />
```

Source View:

```
<div class="wrap">
    <div id="icon-options-general" class="icon32"><br /></div>
    <h2>CC Comments Options</h2>
    <p>Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.</p>
    <form action="" method="post" id="cc-comments-email-options-form">
        <h3><label for="cc_email">Email to send CC to:</label>
        <input type="text" id="cc_email" name="cc_email"
               value="" /></h3>
        <p><input type="submit" name="submit" value="Save Email" /></p>
        <input type="hidden" name="cccomm_hidden" value="Y" />
    </form>
</div>
```

Admin View:



CC Comments Options

Email was saved for CC Comments

Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.

Email to send CC to:

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 nitro^{PDF}[®] professional

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0503 Securing form submission with nonces.mov

```
24 function cccomm_option_page()
25 {
26     if ( check_admin_referer('cccomm_admin_options-update') )
27     {
28         update_option('cccomm_cc_email', $_POST['cc_email']);
29         ?>
30         <div id="message" class="updated">Email was saved for CC Comments</div>
31         <?php
32     }
33
34     ?>
35     <div class="wrap">
36     <?php screen_icon(); ?>
37     <h2>CC Comments Options</h2>
38     <p>Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.</p>
39     <form action="" method="post" id="cc-comments-email-options-form">
40     <h3><label for="cc_email">Email to send CC to:</label>
41     <input type="text" id="cc_email" name="cc_email"
42         value="<?php echo esc_attr(get_option('cccomm_cc_email')); ?>" /></h3>
43     <p><input type="submit" name="submit" value="Save Email" /></p>
44     <?php wp_nonce_field('cccomm_admin_options-update'); ?>
45     </form>
46     </div>
47     <?php
```

0504 Options editing post-WordPress 2.7.mov

```
24 function cccomm_init()
25 {
26     register_setting('cccomm_options', 'cccomm_cc_email');
27 }
28 add_action('admin_init', 'cccomm_init');

30 function cccomm_option_page()
31 {
32     ?>
33     <div class="wrap">
34     <?php screen_icon(); ?>
35     <h2>CC Comments Options</h2>
36     <p>Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.</p>
37     <form action="options.php" method="post" id="cc-comments-email-options-form">
38     <?php settings_fields('cccomm_options'); ?>
39     <h3><label for="cccomm_cc_email">Email to send CC to:</label>
40     <input type="text" id="cccomm_cc_email" name="cccomm_cc_email"
41         value="<?php echo esc_attr(get_option('cccomm_cc_email')); ?>" /></h3>
42     <p><input type="submit" name="submit" value="Save Email" /></p>
43     </form>
44     </div>
45     <?php
46 }
```

- Admin View

CC Comments Options

Settings saved.

Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.

Email to send CC to: user@oursite.com

Save Email

- Source View


```
<div class="wrap">
    <div id="icon-options-general" class="icon32"><br /></div>
<h2>CC Comments Options</h2>
<p>Welcome to the CC Comments plugin. Here you can edit the email(s) to CC your comments to.</p>
<form action="options.php" method="post" id="cc-comments-email-options-form">
<input type="hidden" name="option_page" value="cccomm_options" /><input type="hidden" name="action" value="update" />
<input type="text" id="cccomm_cc_email" name="cccomm_cc_email" value="user@oursite.com" /></h3>
<p><input type="submit" name="submit" value="Save Email" /></p>
</form>
</div>
```
- `id="wpnonce" name="wpnonce" value="89dbbd8f37" /`

0505 Integrating with the WordPress admin menus.mov

```
48: function cccomm_plugin_menu()
49: {
50:     add_options_page('CC Comments Settings', 'CC Comment'
51: }
```

- `add_options_page`: Places it under the settings

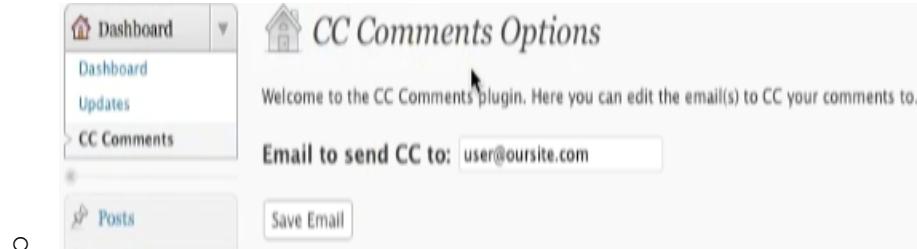


```

48 Function cccomm_plugin_menu()
49 {
50     add_dashboard_page('CC Comments Se
51 }

```

- add_dashboard_page
 - Adds a menu link on dashboard



```

48 function cccomm_plugin_menu()
49 {
50     add_menu_page('CC Comments','CC Comments','manage_options','cc-comments-plugin','cccomm_option_page',
51                 '/wordpress/wp-content/plugins/cc_comment/cc_icon.png',20);
52 }

```

- You can add an Icon and Priority

Other Options for adding the links

- Add_themes_page
- Add_options_page
- Add_submenu_page

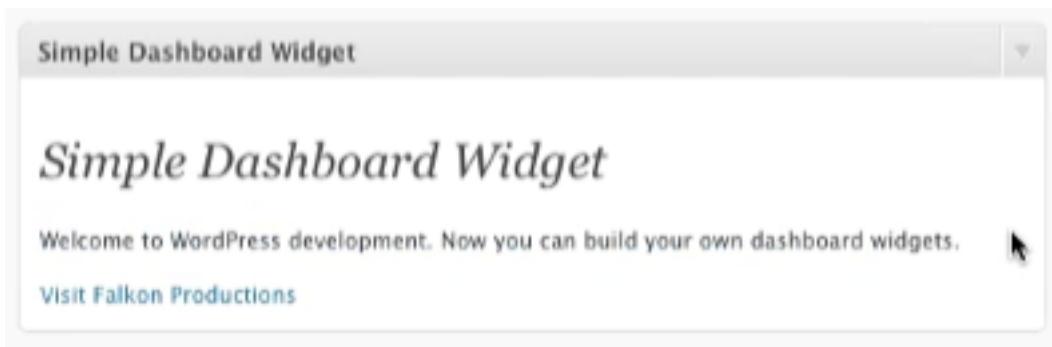
0506 WordPress admin dashboard API.mov

```

simple_db_widget.php ✘
1 <?php
2 /*
3 Plugin Name: Simple Dashboard Widget
4 Plugin URI: http://www.falkonproductions.com/simpleDBWidget/
5 Description: This plugin adds a widget to the admin dashboard
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11 function simple_dashboard_widget()
12 {
13     ?>
14     <h2>Simple Dashboard Widget</h2>
15     <p>Welcome to WordPress development. Now you can build your own dashboard widgets.</p>
16     <p><a href="http://www.falkonproductions.com">Visit Falkon Productions</a></p>
17     <?php
18 }
19
20 function sdbw_register_widget()
21 {
22     wp_add_dashboard_widget('simple-dashboard-widget','Simple Dashboard Widget', 'simple_dashboard_widget');
23 }
24
25 add_action('wp_dashboard_setup','sdbw_register_widget');

```

Dashboard View:



0507 Using existing options and option editing pages in WordPress.mov

<http://localhost:8888/wordpress/wp-admin/options.php>

Contains all database settings

The screenshot shows the 'All Settings' page in WordPress. At the top, a yellow banner displays 'Settings saved.' Below this, there are three settings listed:

- active_plugins: A dropdown menu showing several plugin names.
- admin_email: A text input field containing 'drew@laksjdfjasdf.com'.
- advanced_edit: A text input field containing '0'.

Adding Information to All Settings

```
30: function cccomm_setting_field()
31: {
32:     ?>
33:     <input type="text" name="cccomm_cc_email" id="cccomm_cc_email"
34:           value="php echo get_option('cccomm_cc_email'); ?" />
35:     </?php
36: }
37
38: function cccomm_plugin_menu()
39: {
40:     add_settings_field('cccomm_cc_email','CC Comments', 'cccomm_setting_field', 'general');
41: }
42
43: add_action('admin_menu','cccomm_plugin_menu');
```

- Make sure the name and id should be the same as the get_option
- <http://localhost:8888/wordpress/wp-admin/options-general.php>
-

To Create Entirely New Section Heading

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```

38 function ccomm_setting_section()
39 {
40     ?>
41     <p>Settings for the CC Comments plugin:</p>
42     <?php
43 }
44
45 function ccomm_plugin_menu()
46 {
47     add_settings_section('cccomm','CC Comments', 'cccomm_setting_section','general');
48     add_settings_field('cccomm_cc_email','CC Comments', 'cccomm_setting_field','general','cccomm');
49 }

```

CC Comments

Settings for the CC Comments plugin:

CC Comments

user@oursite.com

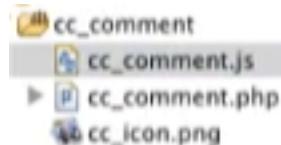
Save Changes

0508 Using jQuery and AJAX for administration.mov

```

54 function ccomm_email_check()
55 {
56     $email = isset($_POST['cccomm_cc_email']) ? $_POST['cccomm_cc_email'] : null;
57     $msg = 'invalid';
58     if ($email)
59     {
60         if (!is_email($email))
61         {
62             $msg = 'valid';
63         }
64     }
65     echo $msg;
66     die();
67 }

```



```

jQuery(document).ready( function($) {
    $("input[name='cccomm_cc_email']").blur( function () {
        $.ajax({
            type: "POST",
            data: "cccomm_cc_email="+$(this).attr("value") + "&action=cccomm_email_check",
            url: ajaxurl,
            beforeSend: function() {
                $("#emailInfo").html("Checking Email...");
            },
            success: function(data) {
                if ( data == "valid" ) {
                    $("#emailInfo").html("Email OK");
                }
                else
                {
                    $("#emailInfo").html("You have entered an invalid email");
                }
            }
        });
    });
});

68 add_action('wp_ajax_cccomm_email_check','cccomm_email_check');
69 add_action('admin_print_scripts-options-general.php','cccomm_email_check_script');
70

```

adds admin_print_scripts(Javascripts) to options-general.php

```

71@ function cccomm_email_check_script()
72{
73    wp_enqueue_script("cc-comments",path_join(WP_PLUGIN_URL, basename(dirname(__FILE__)) . "/cc_comment.js")
74}

```

http://codex.wordpress.org/Function_Reference/wp_enqueue_script

0601 Accessing the WordPress database.mov

Use wpdb

```

dbinfo.php ✘
1 <?php
2 /*
3 Plugin Name: DB Info Plugin
4 Plugin URI: http://www.falkonproductions.com/dbinfo/
5 Description: This plugin tells admin stuff about the db
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11@ function databaseinfo_dashboard_widget()
12{
13    global $wpdb;
14    ?>
15    <h2>DB Info Dashboard Widget</h2>
16    <p><b>Last Query:</b> <?php echo $wpdb->last_query; ?></p>
17    <p><b>Last Error:</b> <?php echo $wpdb->last_error; ?></p>
18    <p><b>Total Users:</b> <?php echo $wpdb->query('SELECT ID FROM wp_users'); ?></p>
19    <?php
20    }
21
22@ function databaseinfo_register_widget()
23{
24    wp_add_dashboard_widget('databaseinfo-dashboard-widget', 'Counter Dashboard Widget', 'databaseinfo_dashboard_widget');
25}
26
27 add_action('wp_dashboard_setup', 'databaseinfo_register_widget');

```

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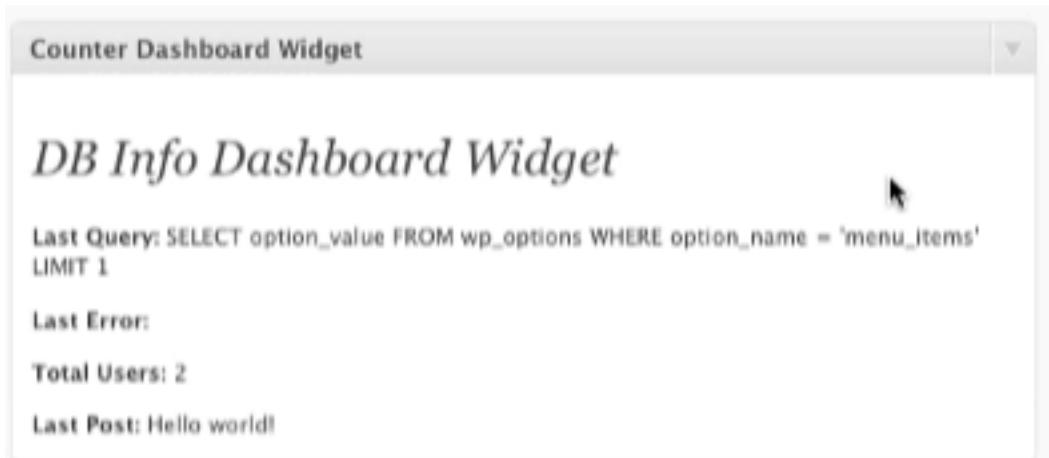
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```

function databaseinfo_dashboard_widget()
{
    global $wpdb;
    global $current_user;
    ?>
    <h2>DB Info Dashboard Widget</h2>
    <p><b>Last Query:</b> <?php echo $wpdb->last_query; ?></p>
    <p><b>Last Error:</b> <?php echo $wpdb->last_error; ?></p>
    <p><b>Total Users:</b> <?php echo $wpdb->query('SELECT ID FROM wp_users'); ?></p>
    <p><b>Last Post:</b> <?php echo $wpdb->get_var('SELECT post_title FROM ' .
        '$wpdb->posts . ' WHERE post_author = ' . $current_user->ID); ?></p>
    <?php
}

```

Dashboard View:

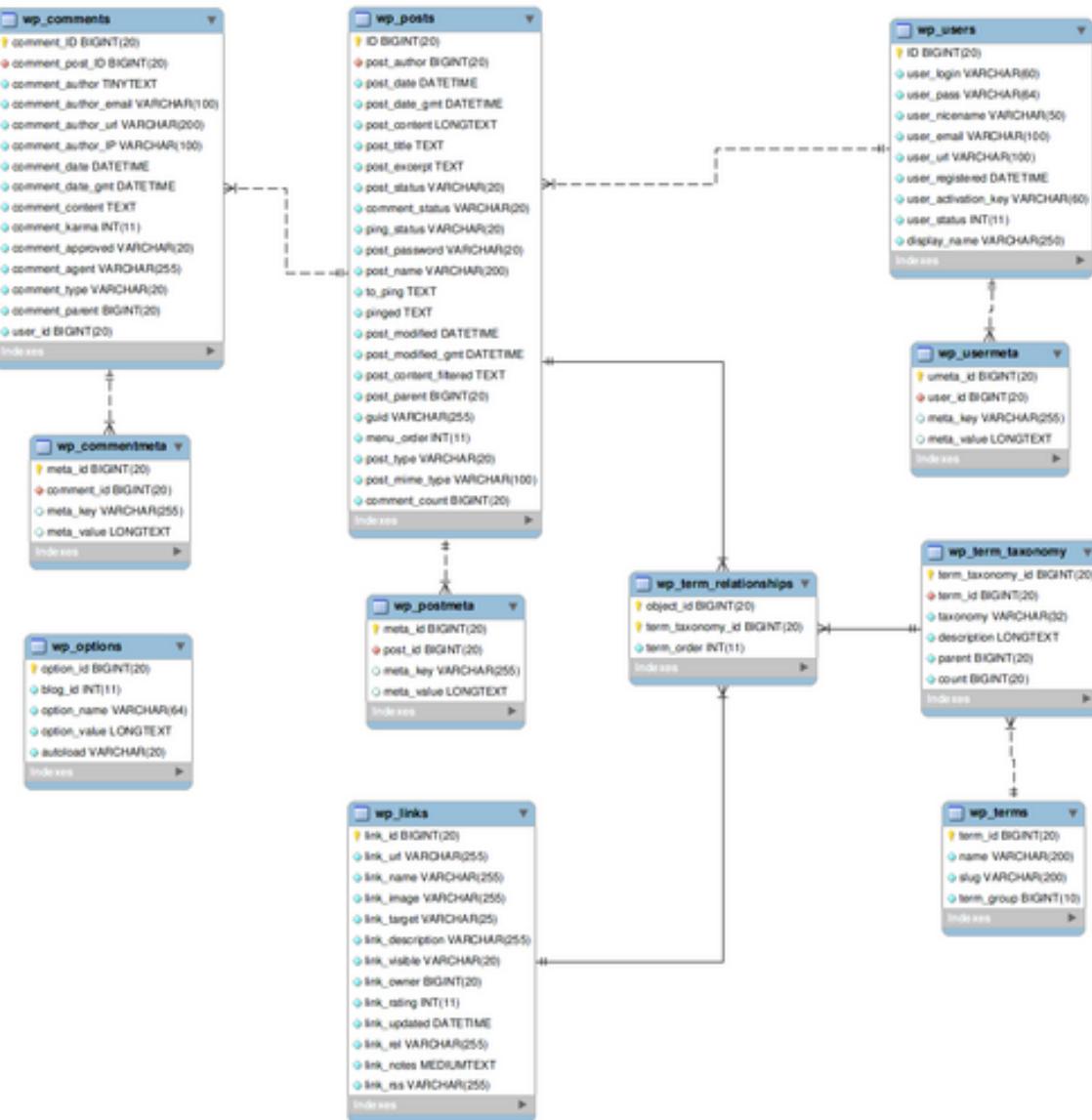


0602 Using the built-in schema.mov

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From: http://codex.wordpress.org/Database_Description

Use wpdb instead of wp_posts for compatibility

0603 Accessing data using \$wpdb.mov

```

11@function databaseinfo_dashboard_widget()
12 {
13     global $wpdb;
14     global $current_user;
15     ?>
16     <h2>DB Info Dashboard Widget</h2>
17     <p><b>Last Query:</b> <?php echo $wpdb->last_query; ?></p>
18     <p><b>Last Error:</b> <?php echo $wpdb->last_error; ?></p>
19     <p><b>Total Users:</b> <?php echo $wpdb->query('SELECT ID FROM wp_users'); ?></p>
20     <p><b>Last Post:</b> <?php echo $wpdb->get_var('SELECT post_title FROM ' .
21             $wpdb->posts . ' WHERE post_author = ' . $current_user->ID); ?></p>
22     <p><b>User Emails:</b> <?php $user_emails = $wpdb->get_col('SELECT user_email FROM ' . $wpdb->users); ?>
23         <pre><?php echo var_dump($user_emails)?></pre></p>
24
25     <?php
26 }
27
28
29 }

11@function databaseinfo_dashboard_widget()
12 {
13     global $wpdb;
14     global $current_user;
15     ?>
16     <h2>DB Info Dashboard Widget</h2>
17     <p><b>Last Query:</b> <?php echo $wpdb->last_query; ?></p>
18     <p><b>Last Error:</b> <?php echo $wpdb->last_error; ?></p>
19     <p><b>Total Users:</b> <?php echo $wpdb->query('SELECT ID FROM wp_users'); ?></p>
20     <p><b>Last Post:</b> <?php echo $wpdb->get_var('SELECT post_title FROM ' .
21             $wpdb->posts . ' WHERE post_author = ' . $current_user->ID); ?></p>
22     <p><b>User Emails:</b> <?php $user_emails = $wpdb->get_col('SELECT user_email FROM ' . $wpdb->users); ?>
23         <pre><?php echo var_dump($user_emails)?></pre></p>
24     <p><b>Your user info:</b> </p>
25     <?php $my_user_data = $wpdb->get_row('SELECT * FROM ' . $wpdb->users . ' WHERE ID = ' . $current_user
26         <pre><?php echo var_dump($my_user_data); ?></pre></p>
27
28     <?php
29 }

<?php
$current_user->ID, ARRAY_N>1;?>

```

- Array_N: gets the array number placement
- Array_A: gets the associative array
- Dashboard View:

```

array(10) {
    ["ID"]=>
        string(1) "1"
    ["user_login"]=>
        string(5) "admin"
    ["user_pass"]=>
        string(34) "$P$SBKA/dDihqsjKmIO3anCrs8l7NFIjte/"
    ["user_nicename"]=>
        string(5) "admin"
    ["user_email"]=>
        string(18) "dcnew@veraison.info"
    ["user_uri"]=>
        string(0) ""
    ["user_registered"]=>
        string(19) "2010-08-30 20:28:05"
    ["user_activation_key"]=>
        string(0) ""
    ["user_status"]=>
        string(1) "0"
    ["display_name"]=>
        string(5) "admin"
}

```

```

27 <p><b>All Post Terms: </b>
28     <?php $terms = $wpdb->get_results('SELECT * FROM ' . $wpdb->terms);
29     echo var_dump($terms); ?></p>
30 </?pho

```

```

All Post Terms: array(2) { [0]=> object(stdClass)#180 (4) { ["term_id"]=> string(1) "1"
["name"]=> string(13) "Uncategorized" ["slug"]=> string(13) "uncategorized"
["term_group"]=> string(1) "0" } [1]=> object(stdClass)#181 (4) { ["term_id"]=> string(1) "2"
["name"]=> string(8) "Blogroll" ["slug"]=> string(8) "blogroll" ["term_group"]=> string(1) "0"
}}

```

0604 Creating new tables.mov

```

7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11<?php
12 function bdetector_activate()
13 {
14     global $wpdb;
15
16     $table_name = $wpdb->prefix . "bdetector";
17
18     if ( $wpdb->get_var('SHOW TABLES LIKE ' . $table_name) != $table_name )
19     {
20         $sql = 'CREATE TABLE ' . $table_name . '('
21             'id INTEGER(10) UNSIGNED AUTO_INCREMENT,
22             hit_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
23             user_agent VARCHAR(255),
24             PRIMARY KEY (id) ';
25
26         require_once(ABSPATH . 'wp-admin/includes/upgrade.php');
27         dbDelta($sql);
28
29         add_option('bdetector_database_version','1.0');
30     }
31 }
32
33 register_activation_hook(__FILE__, 'bdetector_activate');

```

Field	Type	Collation	Attributes	Null	Default	Extra	Action
id	int(10)		UNSIGNED	No	None	auto_increment	
hit_date	timestamp			No	CURRENT_TIMESTAMP		
user_agent	varchar(255)	latin1_swedish_ci		Yes	NULL		

0605 Inserting data.mov

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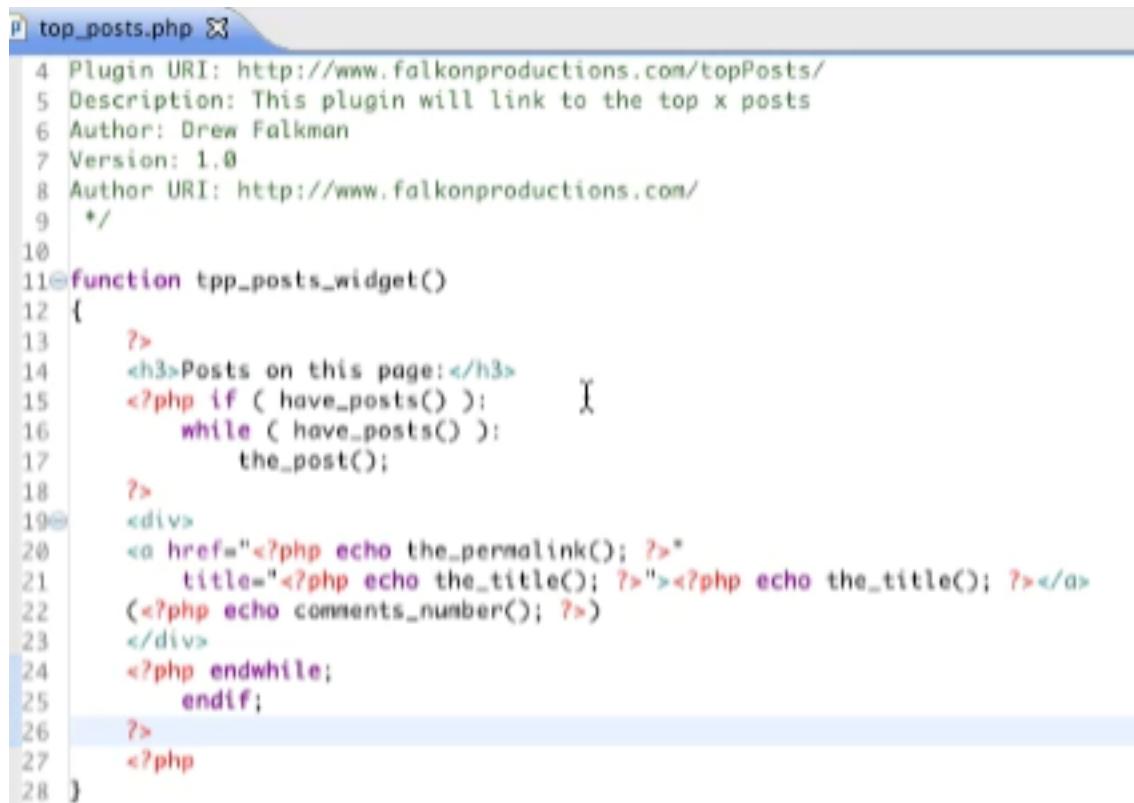
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```

35@function bdetector_insert_useragent()
36 {
37     global $wpdb;
38
39     $table_name = $wpdb->prefix . "bdetector";
40
41     $wpdb->insert($table_name, array('user_agent'=>$_SERVER['HTTP_USER_AGENT']), array('%s'));
42 }
43
44 add_action('wp_footer','bdetector_insert_useragent');
•
• Read More about wpdb insert and update

```

0701 Introducing the Loop.mov



```

4 Plugin URI: http://www.falkonproductions.com/topPosts/
5 Description: This plugin will link to the top x posts
6 Author: Drew Falkman
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11@function tpp_posts_widget()
12 {
13     ?>
14     <h3>Posts on this page:</h3>
15     <?php if ( have_posts() ):    [
16         while ( have_posts() ):
17             the_post();
18         ?>
19         <div>
20             <a href="<?php echo the_permalink(); ?>" title="<?php echo the_title(); ?>"><?php echo the_title(); ?></a>
21             (<?php echo comments_number(); ?>)
22         </div>
23         <?php endwhile;
24         endif;
25     ?>
26     <?php
27 }
28

```

0702 Using WP_Query().mov

```
*top_posts.php
7 Version: 1.0
8 Author URI: http://www.falkonproductions.com/
9 */
10
11@function tpp_posts_widget()
12 {
13     $tpp_posts_query = new WP_Query();
14     $tpp_posts_query->get_posts();
15     ?>
16     <h3>Posts on this page:</h3>
17     <?php if ( $tpp_posts_query->have_posts() ):>
18         while ( $tpp_posts_query->have_posts() ):
19             $tpp_posts_query->the_post();
20         ?>
21     <div>
22     <a href="<?php echo the_permalink(); ?>"
23         title="<?php echo the_title(); ?>"><?php echo the_title(); ?></a>
24     (<?php echo comments_number(); ?>)
25     </div>
26     <?php endwhile;
27     endif;
28     ?>
29     <?php
30 }
```

0703 Custom filtering and sticky posts.mov

```
11@function tpp_posts_widget()
12 {
13     $tpp_posts_query = new WP_Query();
14     $tpp_posts_query->query("posts_per_page=5&orderby=comment_count&order=DESC");
15     ?>
16     <h3>Posts on this page:</h3>
17     <?php if ( $tpp_posts_query->have_posts() ):
18         while ( $tpp_posts_query->have_posts() ):
19             $tpp_posts_query->the_post();
20         ?>
21     <div>
22     <a href="<?php echo the_permalink(); ?>"
23         title="<?php echo the_title(); ?>"><?php echo the_title(); ?></a>
24     (<?php echo comments_number(); ?>)
25     </div>
26     <?php endwhile;
27     endif;
28     ?>
29     <?php
30 }
```

View on Homepage:

Posts on this page:

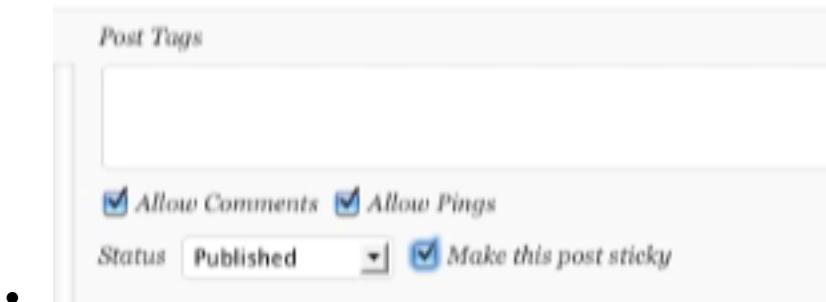
[Restaurant Review \(No Comments\)](#)

[Update for Today \(No Comments\)](#)

[Hello world!](#) (3 Comments)

```
11 function tpp_posts_widget()
12 {
13     $tpp_posts_query = new WP_Query(array('posts_per_page'=>5,
14                                         'orderby'=>'comment_count',
15                                         'order'=>'DESC'));
16     ?>
17     <h3>Top Posts:</h3>
18     <?php if ( $tpp_posts_query->have_posts() ):>
19         while ( $tpp_posts_query->have_posts() ):>
20             $tpp_posts_query->the_post();
21         ?>
22         <div>
23             <a href="<?php echo the_permalink(); ?>">
24                 title="<?php echo the_title(); ?>"><?php echo the_title(); ?></a>
25             (<?php echo comments_number(); ?>)
26         </div>
27         <?php endwhile;
28         endif;
29     ?>
30     <?php
```

To make it sticky



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```

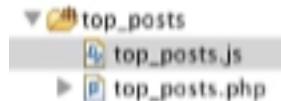
11@function tpp_posts_widget()
12 {
13     $tpp_posts_query = new WP_Query(array('posts_per_page'=>5,
14                                         'orderby'=>'comment_count',
15                                         'order'=>'DESC',
16                                         'post__in'=>get_option('sticky_posts')));
17     ?>
18     <h3>Top Posts:</h3>
19     <?php if ( $tpp_posts_query->have_posts() ) :
20         while ( $tpp_posts_query->have_posts() ) :
21             $tpp_posts_query->the_post();
22         ?>
23         <div>
24             <a href="<?php echo the_permalink(); ?>" title="<?php echo the_title(); ?>><?php echo the_title(); ?></a>
25             (<?php echo comments_number(); ?>)
26         </div>
27         <?php endwhile;
28         endif;
29     ?>

```

- - Use to query sticky post

0704 Using jQuery and AJAX for posts and pages.mov

Add Preview when mouse hover



```

11 function tpp_posts_widget()
12 {
13     $tpp_posts_query = new WP_Query('&posts_per_page=10&orderby=comment_count&order=DESC');
14     ?>
15     <h3><?php _e('Top Posts:') ?></h3>
16     <?php if ( $tpp_posts_query->have_posts() ) :
17         while ( $tpp_posts_query->have_posts() ) :
18             $tpp_posts_query->the_post();
19         ?>
20         <div class="tpp_posts">
21             <a href="<?php echo the_permalink(); ?>" id="<?php echo the_id(); ?>" title="<?php echo the_title(); ?>" class="comment_link"><?php echo the_title(); ?></a>
22             (<?php echo comments_number(); ?>)
23         </div>
24         <?php endwhile;
25         endif;
26     ?>
27     <?php
28 }
29
30
31
32 }

```

```

34 Function tpp_posts_comments_return()
35 {
36     $post_id = isset( $_POST['post_id'] ) ? $_POST['post_id'] : 0;
37
38     if ( $post_id > 0 )
39     {
40         $post = get_post($post_id);
41         ?>
42         <div id="post"><?php echo $post->post_content; ?></div>
43         <?php
44     }
45     die();
46 }
47 add_action('wp_ajax_nopriv_tpp_comments','tpp_posts_comments_return');
48
49 function tpp_posts_get_scripts()
50 {
51     wp_enqueue_script("tpp-posts",
52                         path_join(WP_PLUGIN_URL, basename(dirname(__FILE__)), "/top_posts.js"), array("jquery"));
53 }
54 add_action('wp_print_scripts','tpp_posts_get_scripts');

```

top_posts.php top_posts.js

```

1 jQuery(document).ready( function($){
2     $("div.tpp_posts").mouseover( function() {
3         var div = $(this);
4
5         $.post('wp-admin/admin-ajax.php', {
6             action: "tpp_comments",
7             post_id: $(this).find("a").attr("id")
8         }, function (data) {
9             div.append($(data));
10        });
11    });
12    return false;
13 });
14
15 $("div.tpp_posts").mouseout( function() {
16
17     $("#post").remove();
18 });
19 });

```

View from front page:

Top Posts:

- [Hello world! \(3 Comments\)](#)
- [Update for Today \(No Comments\)](#)
- [Update for Today \(No Comments\)](#)

0801 Registering and promoting plugins.mov

http://codex.wordpress.org/Plugin_Submission_and_Promotion

<http://wordpress.org/extend/plugins/about/#readme>

<http://wordpress.org/extend/plugins/add>

<http://wordpress.org/extend/plugins/about/readme.txt>

Other Places to Submit Plugins:

- <http://wp-plugins.org>
- <http://wp-plugins.net>

Wordpress Discussion

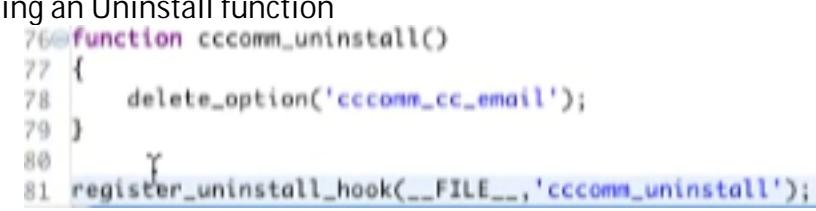
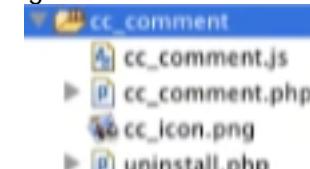
<http://www.bloggingpro.com>

<http://weblogtoolscollection.com>

<http://wordpress.org/support/forum/plugins-and-hacks>

0802 Creating an uninstall function.mov

make sure to make a backup of the plugin

- Creating an Uninstall function
 - function cccomm_uninstall()
76
77 {
78 delete_option('cccomm_cc_email');
79 }
80
81 register_uninstall_hook(__FILE__, 'cccomm_uninstall');
 - This script will uninstall the plugin once it is deleted. However, it will execute the commands above it.
- Creating an Uninstall File
 - 

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```
cc_comment.php | *uninstall.php X
1 <?php
2
3 if ( !defined('WP_UNINSTALL_PLUGIN') )
4     exit();
5
6
7 delete_option('cccomm_cc_email'); }
```

-
- This script will uninstall the plugin once it is deleted
- This will run cleanly

0803 Backward compatibility issues.mov

http://codex.wordpress.org/WordPress_Versions

http://codex.wordpress.org/Category:Deprecated_Functions

```
80 if ( function_exists('register_uninstall_hook') )
81 {
82     register_uninstall_hook(__FILE__, 'cccomm_uninstall');
83 }
```

- Check the function if it exist

0901 Understanding security issues.mov

Data Sanitation

- 41 \$wpdb->insert(\$table_name, array('user_agent'=>\$_SERVER['HTTP_USER_AGENT']), array('%s'));
- Forces the input to be string
- Browser detection plugin
- 41 \$safe_sql = \$wpdb->prepare("INSERT INTO `{\$table_name}` SET user_agent = %s", \$_SERVER['HTTP_USER_AGENT']);
42 \$wpdb->query(\$safe_sql);
- prepare
- Browser detection plugin

```

34@ function update($new_instance, $old_instance)
35{
36    $instance = $old_instance;
37    $instance['title'] = strip_tags($new_instance['title']);
38    $allowed_html = array('a' =>
39                            array('href' => array(),
40                                  'title' => array(),
41                                  'br' => array(),
42                                  'strong' => array(),
43                                  'em' => array());
44    $instance['body'] = wp_kses($new_instance['body'], $allowed_html);
45    return $instance;
46}

```



- Strips the Simple Widget

0902 Internationalizing your plugin.mov

http://codex.wordpress.org/I18n_for_WordPress_Developers

http://us.php.net/gettext

```

18@function add_copyright()
19{
20    $copyright_message = "&copy; " . date('Y') . __(" Falkon Productions, All Rights Reserved");
21    echo $copyright_message;
22}

```

- __()

```
copyright_plugin.php          top_posts.php
```

```
9  */
10
11 function tpp_posts_widget()
12 {
13     $tpp_posts_query = new WP_Query('&posts_per_page=10&
14
15     ?>
16     <h3><?php _e('Top Posts:') ?></h3>
17     <?php if ( $tpp_posts_query->have_posts() ) :
18         while ( $tpp_posts_query->have_posts() ) :
19             $tpp_posts_query->the_post();
20     ?>
```

- `_e()`
- Creates a POT file

0601 How to Choose Plugins.mp4



- Search Google for best plugin keyword
- Search the authors name or nickname

0602 Plugins for Developers.mp4

PLUGINS TO HELP WORDPRESS DESIGNERS/DEVELOPERS

Reveal IDs - shows post, page, category and other IDs in the admin screens

Widget Logic - allows easy use of conditionals and other template tags within widgets

Admin Menu Editor - allows you to customize who sees what on the admin menus

Capability Manager - change the capabilities of WP roles

Theme Test Drive - when you need to try a new theme on an existing WP site

0603 Plugins for Design and Layout.mp4

PLUGINS TO HELP CLIENTS DESIGN AND LAYOUT CONTENT

The WordPress Text Editor isn't the most user-friendly beyond the basics.

TinyMCE Advanced



WP-Table Reloaded

JShortcodes

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Smashing Wordpress Chapter 7

- Plugin Basics
 - Location: wp-content/plugins/
 - Name must be unique
 - Check wordpress.org or in google to make sure your plugin is unique
 - ```
<?php
/*
Plugin Name: My Smashing Plugin
Plugin URI: http://my-smashing-plugin-url.com
Description: This is what my Smashing Plugin actually does.
Version: 1.0
Author: Thord Daniel Hedengren
Author URI: http://tdhedengren.com
*/
?>
```
  - - Header
  - include licensing information
    - [www.gnu.org/copyleft/gpl.html](http://www.gnu.org/copyleft/gpl.html)
    - change YEAR and PLUGIN AUTHOR E-MAIL
- Hooks and How to Use Them
  - Syntax: add\_action ('hook-name', 'function-name', X, Y );
    - X, is the priority argument (which defaults to 10)
      - The lower the number is, the earlier the function will be executed
    - Y, on the other hand, is the number of arguments your function can accept (defaulting to 1)
  - 2 Types of Hooks
    - Action Hook - triggered by specific events
      - publish\_post()
    - Filter Hook - are functions that WordPress passes data through
      - the\_excerpt()
      - the\_title()
  - Removing Hooks
    - remove\_action('action-hook','the-function')
    - remove\_filter('action-hook','the-function')
- Creating Your Own Template Tags
  - <?php function-name(); ?>
    - Just install the plugin, and you can call the function anywhere in your theme files
      - You don't need the hook
- The Pluggable Functions - to overwrite parts of the WordPress core functionality, when removing hooks won't do it
  - Location: wp-includes/pluggable.php

- you can only do an override once
  - make sure other plugins are not already overriding the functions you want to override
- to avoid unnecessary errors
  - <?php if (!function\_exists('function-name')); ?>
- Pluggable functions list: codex.wordpress.org/Pluggable\_Functions

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