



IMPLEMENTING AND DEVELOPING FOR WORDPRESS IN CIVICRM 4.6 AND BEYOND

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April 2015

Tadpole Collective

@kristiano

Overview:

- CiviCRM and WordPress
- BasePage for WordPress
- Shortcodes
- Hooks for WordPress
- What's Next

References for 4.6 improvements

- Christian Wach
 - <https://civicrm.org/blogs/haystack/working-civicrm-46-wordpress>
 - <https://github.com/civicrm/civicrm-wordpress/pull/63>
 - <https://github.com/civicrm/civicrm-core/pull/4360>

CiviCRM and WordPress

- 4.1 – The Beginning
 - Shortcodes
- 4.2 - Extensions
- 4.3 – ACL
- 4.4 – Petition Shortcodes
- 4.5 – wp-cli

CiviCRM and WordPress

- 4.6 – Major Step Forward
 - CiviCRM Basepage Auto Setup
 - Shortcodes
 - WordPress hooks

WP BASEPAGE

What is this basepage issue anyway?

Drupal URLs vs WordPress URLs

Drupal -- <http://drupal.dev/civicrm/event/register?reset=1&id=3>

WordPress –

<http://wpcv45.dev/?page=CiviCRM&q=civicrm/event/register&reset=1&id=3>

[?page=CiviCRM&q=](#)

Home

Home

Recent Items

k@bcell.cc

My Contact Dashboard

Search

Navigation

- Add content
- CivCRM

Rain-forest Cup Youth Soccer Tournament

Welcome k@bcell.cc. (Not k@bcell.cc, or want to register a different person?)

Complete the form below to register your team for this year's tournament.

Your Registration Info

First Name *

Last Name *

Email Address *

- Tournament Fees
- Tiny-tots (ages 5-8) - \$ 800
 - Junior Stars (ages 9-12) - \$ 1000
 - Super Stars (ages 13-18) - \$ 1500

Credit Card Information



Card Number

Security Code

Expiration Date

Billing Name and Address

Billing First Name

Billing Middle Name

Billing Last Name

Street Address

City

Country

State/Province

Postal Code

A Soccer Youth Event



META

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Rain-forest Cup Youth Soccer Tournament

Welcome K Cristiano. ([Not K Cristiano, or want to register a different person?](#))

Complete the form below to register your team for this year's tournament.

Your Registration Info

First Name

K

*

Last Name

Cristiano

*

Email Address

k@bcelcc.cc

*

Tournament Fees

 \$ 800 Tiny-tots (ages 5-8)

*

 \$ 1000 Junior Stars (ages 9-12) \$ 1500 Super Stars (ages 13-18)

Credit Card Information



Card Number *

One small Change: BasePage

CiviCRM » Administer CiviCRM

Settings - WordPress Integration

These settings define the CMS variables that are used with CiviCRM.

Save Cancel

WordPress Users Table Name

WordPress Base Page

By default, CiviCRM will generate front-facing pages using the home page at http://wpcivi46.dev/ as its base. If you want to use a different template for CiviCRM pages, set the path here.

Save Cancel

Access Keys: ?

Powered by CiviCRM 4.6.0. CiviCRM is openly available under the GNU AGPL License.
[Download CiviCRM.](#) [View issues and report bugs.](#) [Online documentation.](#)

Create a WordPress Page

The screenshot shows the WordPress 'Edit Page' interface. The page title is 'civicrm'. The permalink is 'http://wpcv45.dev/civicrm/'. There are buttons for 'Edit', 'View Page', and 'Get Shortlink'. A red arrow points to the 'Edit' button. The interface includes a left sidebar with navigation options like 'Dashboard', 'CiviCRM', 'Posts', 'Media', 'Pages', 'Comments', 'Appearance', 'Plugins', 'Users', 'Tools', 'Settings', and 'Collapse menu'. The main content area has a rich text editor with a toolbar and a text area. The right sidebar contains 'Publish' options (Status: Published, Visibility: Public, Published on: 5 Apr 2015 @ 22:13), 'Page Attributes' (Parent: (no parent), Template: Default Template, Order: 0), and a 'Need help?' message.

WP CV 4.5 0 + New View Page How are you, kristiano?

Screen Options Help

Edit Page [Add New](#)

civicrm

Permalink: <http://wpcv45.dev/civicrm/> [Edit](#) [View Page](#) [Get Shortlink](#)

[Add Media](#) [CiviCRM](#) [Visual](#) [Text](#)

B *I* **ABC**

P

Word count: 0

Last edited by kristiano on 5th April 2015 at 10:13 pm

Publish

[Preview Changes](#)

Status: **Published** [Edit](#)

Visibility: **Public** [Edit](#)

Published on: **5 Apr 2015 @ 22:13** [Edit](#)

[Move to Bin](#) [Update](#)

Page Attributes

Parent

(no parent)

Template

Default Template

Order

0

Need help? Use the Help tab in the upper right of your screen.

[http://wpcv45.dev/civicrm/?
page=CiviCRM&q=civicrm/event/
register&reset=1 &id=3](http://wpcv45.dev/civicrm/?page=CiviCRM&q=civicrm/event/register&reset=1&id=3)

[civicrm/?page=CiviCRM&q=](http://wpcv45.dev/civicrm/?page=CiviCRM&q=)

Automated in 4.6

End Result: /includes/civicrm.basepage.php

```
CiviCRM_For_WordPress_Basepage
1  <?php
2  /*...*/
27
28  /**
29   *
30   * @package CRM
31   * @copyright CiviCRM LLC (c) 2004-2013
32   *
33   */
34
35
36  // this file must not accessed directly
37  if ( ! defined( 'ABSPATH' ) ) exit;
38
39
40  /**
41   * Define CiviCRM_For_WordPress_Basepage Class
42   */
43  class CiviCRM_For_WordPress_Basepage {
44
45
46  /**
47   * Declare our properties
48   */
49
50  // init property to store reference to Civi
51  public $civi;
52
53
54  /**
55   * Instance constructor
56   *
57   * @return object $this The object instance
58   */
59  function __construct() {
60
61  // store reference to Civi object
62  $this->civi = civi_wp();
63
64  return $this;
65
66  }
67
68
69  /**
70   * Register hooks to handle CiviCRM in a WordPress wpBasePage context
71  */

```

BasePage now have its own class
CiviCRM_For_WordPress_Basepage



Just another WordPress site

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- WordPress.org

Rain-forest Cup Youth Soccer Tournament

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Last Name *

Email Address *

Tournament Fees * \$ 800 Tiny-tots (ages 5-8)

\$ 1000 Junior Stars (ages 9-12)

\$ 1500 Super Stars (ages 13-18)

Credit Card Information



Card Number *

Security Code *

Expiration Date *

Billing Name and Address

Billing First Name *

Billing Middle Name

Billing Last Name *

Street Address *

City *

Country *

State/Province *

Postal Code *

[CONTINUE >>](#)

A Soccer Youth Event

Shortcodes


Allow CiviCRM content to be added to WordPress content types

example: `[civicrm component="contribution" id="1" mode="live" hijack="0"]`

All WordPress shortcodes are added to a post, page or Custom Post Type

Add a New Post

Donate Now

 Add Media

 CiviCRM

Visual

Text

b

i

link

b-quote

←

Add CiviCRM Public Pages

li

code

more

close tags



Word count: 0

Draft saved at 2:24:08 pm.

Add CiviCRM Public Pages

Please select a CiviCRM front-end page type

Can't find your form? Make sure it is active.

Live Page Test Drive


If you only insert one shortcode, you can choose to override all page content with the content of the shortcode.

Override page content Don't override

Add a New Post

Donate Now

Permalink: <http://wpcivi46.dev/donate-now/> [Edit](#) [View Post](#)

 Add Media

 CiviCRM

Visual

Text

b

i

link

b-quote

~~del~~

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img

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ol

li

code

more

close tags



`[civicrm component="contribution" id="1" mode="live" hijack="0"]`

Word count: 4

Draft saved at 2:25:36 pm.

Result : <http://wpcivi46.dev/donate-now/>
Instead of <http://wpcivi46.dev/civicrm/?page=CiviCRM&q=civicrm/contribute/transact&reset=1&id=1>



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- WordPress.org

STUFF

DONATE NOW

🕒 APRIL 14, 2015 👤 KCRISTIANO 💬 LEAVE A COMMENT ✎ EDIT

Help Support CiviCRM!

Welcome k@bcellc.cc. ([Not k@bcellc.cc, or want to do this for a different person?](#))

Do you love CiviCRM? Do you use CiviCRM? Then please support CiviCRM and Contribute NOW by trying out our new online contribution features!

- Contribution Amount
- Friend - \$ 1.00
 - Supporter - \$ 5.00
 - Booster - \$ 10.00**
 - Sustainer - \$ 50.00
 - Other Amount

Other Amount \$

Shortcode issues before 4.6:

- Multiple shortcodes on one 'page'
 - Fail
- Shortcodes and WordPress Content
 - Fail
- Archive Page (eg. /events) where each page has a CiviCRM shortcode
 - Fail

...

Shortcodes in 4.6 :

Allow multiple shortcodes on a page.

This can be a 'single' page or an 'archive' page

return correct markup when there are multiple shortcodes in a post

[Browse files](#)

master (#63)

christianwach authored on Oct 20, 2014

1 parent [ba7463a](#) commit [f832a55e63f02ec97dce4ef86ef137fb7eac10c5](#)

Showing 1 changed file with 12 additions and 2 deletions.

Unified

Split

14 civicrm.php

View

@@ -106,6 +106,9 @@ class CiviCRM_For_WordPress {	
106	106
107 // init property to store shortcode markup	107 // init property to store shortcode markup
108 public \$shortcode_markup = array();	108 public \$shortcode_markup = array();
	109 +
	110 + // count multiple passes of do_shortcode in a post
	111 + public \$shortcode_in_post = array();
109	112
110	113
111 // -----	114 // -----
@@ -1289,8 +1292,15 @@ public function do_shortcode(\$atts) {	
1289 if (!empty(\$this->shortcode_markup)) {	1292 if (!empty(\$this->shortcode_markup)) {
1290 if (isset(\$this->shortcode_markup[\$post->ID])) {	1293 if (isset(\$this->shortcode_markup[\$post->ID])) {
1291	1294
1292 - // this shortcode must have been done	1295 + // set counter flag
1293 - return \$this->shortcode_markup[\$post->ID][0];	1296 + if (!isset(\$this->shortcode_in_post[\$post->ID])) {
	1297 + \$this->shortcode_in_post[\$post->ID] = 0;
	1298 + } else {
	1299 + \$this->shortcode_in_post[\$post->ID]++;
	1300 + }
	1301 +
	1302 + // this shortcode must have been rendered
	1303 + return \$this->shortcode_markup[\$post->ID]
	1304 + [\$this->shortcode_in_post[\$post->ID]];
1294	1304
1295 }	1305 }
1296 }	1306 }

End Result: /includes/civicrm.shortcodes.php

```
147 // did we get any?
148 if ( $shortcodes_present ) {
149
150     // how should we handle multiple shortcodes?
151     if ( $shortcodes_present > 1 ) {
152
153         // add CSS resources for front end
154         add_action( 'wp_enqueue_scripts', array( $this->civi, 'front_end_css_load' ), 100 );
155
156         // let's add dummy markup
157         foreach( $this->shortcodes AS $post_id => $shortcode_array ) {
158
159             // set flag if there are multiple shortcodes in this post
160             $multiple = ( count( $shortcode_array ) > 1 ) ? 1 : 0;
161
162             foreach( $shortcode_array AS $shortcode ) {
163
164                 // mimic invoke in multiple shortcode context
165                 $this->shortcode_markup[$post_id][] = $this->render_multiple( $post_id, $shortcode, $multiple );
166
167             }
168         }
169     }
170
171 } else {
172
173     // add core resources for front end
174     add_action( 'wp', array( $this->civi, 'front_end_page_load' ), 100 );
175 }
```

Shortcodes now have their own class
CiviCRM_For_WordPress_Shortcodes

Before 4.6:

WPCV 4.5

HOME

SAMPLE PAGE

ABOUT THE TESTS

LOREM IPSUM

LEVEL 3

LEVEL 2

LEVEL 1

FRONT PAGE

BLOG

PAGE A

PAGE B



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EVENTS, STUFF

RAIN FOREST

🕒 5TH APRIL 2015 💬 LEAVE A COMMENT ✎ EDIT

Welcome K Cristiano. ([Not K Cristiano, or want to register a different person?](#))

Complete the form below to register your team for this year's tournament.

Your Registration Info

First Name *

K

Last Name *

Cristiano

Email Address *

k@bcelcc.cc

Tournament Fees *

\$ 800 Tiny-tots (ages 5-8)

\$ 1000 Junior Stars (ages 9-12)

\$ 1500 Super Stars (ages 13-18)

Credit Card Information



4.6:



WP CV 4.6

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Category Archives: events

EVENTS, STUFF

FUNDRAISE

[🕒 APRIL 5, 2015](#) [💬 LEAVE A COMMENT](#) [✎ EDIT](#)

Fall Fundraiser Dinner

Kick up your heels at our Fall Fundraiser Dinner/Dance at Glen Echo Park! Come by yourself or bring a partner, friend or the entire family!

[Find out more...](#)

Empowered by [CIVICRM](#) 

EVENTS, STUFF

SOLSTICE

Coexist – CiviCRM shortcodes with WordPress Content

Add CiviCRM Public Pages ✕

Please select a CiviCRM front-end page type

Can't find your form? Make sure it is active.

Event Page ▼ Rain-forest Cup Youth Soccer Tournament ▼

Event Info Page Event Registration Page

Live Page Test Drive

If you only insert one shortcode, you can choose to override all page content with the content of the shortcode.

Override page content Don't override

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TOURNEY

🕒 APRIL 5, 2015 👤 KCRISTIANO 💬 LEAVE A COMMENT ✎ EDIT



Sunrise over the coast in Huatulco, Oaxaca, Mexico

Content you want to show before the CiviCRM Shortcode



Rain-forest Cup Youth Soccer Tournament

Welcome Laura Cristiano. ([Not Laura Cristiano, or want to register a different person?](#))

Complete the form below to register your team for this year's tournament.

Add CiviCRM Public Pages

Please select a CiviCRM front-end page type

Can't find your form? Make sure it is active.

Event Page ▼ Rain-forest Cup Youth Soccer Tournament ▼

Event Info Page Event Registration Page

Live Page Test Drive

If you only insert one shortcode, you can choose to override all page content with the content of the shortcode.

Override page content Don't override

Insert Form

Cancel

```
[civicrm component="event" id="3" action="info" mode="live" hijack="1"]
```

Search ...

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EVENTS, STUFF

RAIN-FOREST CUP YOUTH
SOCCER TOURNAMENT[🕒 APRIL 5, 2015](#) [👤 KCRISTIANO](#) [💬 LEAVE A COMMENT](#) [✎ EDIT](#)

Sign up your team to participate in this fun tournament which benefits several Rain-forest protection groups in the Amazon basin.

[REGISTER NOW](#)

This is a FYSA Sanctioned Tournament, which is open to all USSF/FIFA affiliated organizations for boys and girls in age groups: U9-U10 (6v6), U11-U12 (8v8), and U13-U17 (Full Sided).

When [October 31st, 2015 7:00 AM](#) through [November 3rd, 2015 5:00 PM](#)

Location [5810 Lincoln Dr SW](#)
[Santa Fe, NM 87594](#)
[United States](#)

Contact Phone: 303 323-1000

Email: celebration@example.org

Tournament	Tiny-tots (ages 5-8)	\$ 800
Fees	Junior Stars (ages 9-12)	\$ 1000
	Super Stars (ages 13-18)	\$ 1500

[REGISTER NOW](#)

Hooks

WordPress Hooks

Action Hooks

```
136  
137 add_action( 'wp_logout', 'tc_civicontact_sync_loginout' );  
138
```

Filter Hooks

```
315 add_filter( 'tc_civicscss_override', 'tc_civicrm_theme_css' );  
316
```

In WordPress Action Hooks 'do stuff', Filter Hooks 'take input, modify it and return it'

WordPress Hooks in CiviCRM

Before 4.6 all Hooks had to be named:
wordpress_civicrm_hookname

```
18 |
19 |
20 | function wordpress_civicrm_postProcess ( $formName, &$form)
21 | {
22 |     $gid = $form->getVar('_gid');
23 |
24 |     if ($gid == 14) {
25 |         tc_civicontact_sync_loginout();
26 |     }
27 |     else {
28 |     }
29 | }
30 |
```

```
35 class CRM_Utils_Hook_WordPress extends CRM_Utils_Hook {
36     /** Invoke hooks ... */
50     /** @param int $numParams ... */
62     function invoke($numParams,
63         &$arg1, &$arg2, &$arg3, &$arg4, &$arg5, &$arg6,
64         $fnSuffix
65     ) {
66         return $this->commonInvoke($numParams,
67             $arg1, $arg2, $arg3, $arg4, $arg5, $arg6,
68             $fnSuffix, 'wordpress'
69         );
70     }
71 }
72
73
```


Challenges:

In Drupal this was not an issue as the hooks were:

```
modulename_civicrm_hookname
```

But in WordPress this did not work. To use hooks in WP plugins all hooks had to start with 'wordpress_' not the plugin name (equivalent of Module Name)

So if you wanted to use the same hook more than once it would fail. Hooks used by different plugins could also clash as there was no proper naming convention

In 4.6 we can now hook into CiviCRM properly

```
84  
85 // register php and template directories  
86 add_action( 'civicrm_config', array( $this, 'register_php_directory' ), 10, 1 );  
87 add_action( 'civicrm_config', array( $this, 'register_template_directory' ), 10, 1 );  
88
```

How:

<https://github.com/civicrm/civicrm-core/pull/4360>

CRM_Utils_Hook_WordPress

```
1 k?php
2 +/*...*/
27
28 /**
29  *
30  * @package CRM
31  * @copyright CiviCRM LLC (c) 2004-2015
32  * $Id$
33  *
34  */
35 class CRM_Utils_Hook_WordPress extends CRM_Utils_Hook {
36
37  /**
38   * @var bool
39   */
40  private $isBuilt = FALSE;
41
42  /**
43   * @var array(string)
44   */
45  private $allModules = NULL;
46
47  /**
48   * @var array(string)
49   */
50  private $civiModules = NULL;
51
52  /**
53   * @var array(string)
54   */
55  private $wordpressModules = NULL;
56
57  /**
58   * @var array(string)
59   */
60  private $hooksThatReturn = array(
61      'civicrm_upgrade',
62      'civicrm_caseSummary',
63      'civicrm_dashboard',
64  );
65
66  /** Invoke hooks. ...*/
68  public function invoke(
69      $numParams,
```

Examples:

```
// hook into civicrm_pre
add_filter( 'civicrm_pre', 'my_plugin_pre_callback', 10, 4 );
function my_plugin_pre_callback( $op, $objectName, $objectId, &$objectRef ) {
    // your code here
}
```

```
44 function tc_form_update_12 ( $formName, &$form)
45 {
46     $gid = $form->getVar('_gid');
47
48     if ($gid == 12) {
49         tc_civicontact_sync_loginout();
50     }
51     else {
52     }
53 }
54
55 add_action ('civicrm_postProcess','tc_form_update_12', 10, 2);
56
57 function tc_form_update_1 ( $formName, &$form)
58 {
59     $gid = $form->getVar('_gid');
60
61     if ($gid == 1) {
62         tc_civicontact_sync_loginout();
63     }
64     else {
65     }
66 }
67
68 add_action ('civicrm_postProcess','tc_form_update_1', 10, 2);
69
70
```

What's Next?

- Still work to be done on WP-CiviCRM
- Webforms?
 - CiviCRM native Webforms
 - Gravity Forms Interation – Nate Porter
- Parity with Drupal and Joomla!
 - Would like to see CiviCRM be truly CMS agnostic
- Sustainability
 - By creating parity the market potential for CiviCRM is much greater
 - The fact is CiviCRM currently is more feature rich on Drupal

Resources – WP Plugins

- CiviCRM Admin Utilities
 - <https://wordpress.org/plugins/civicrm-admin-utilities/>
 - <https://github.com/christianwach/civicrm-admin-utilities>
- CiviCRM WP Profile Sync
 - <https://wordpress.org/plugins/civicrm-wp-profile-sync/>
 - <https://github.com/christianwach/civicrm-wp-profile-sync>
- CiviCRM Member Sync
 - <https://wordpress.org/plugins/civicrm-wp-member-sync/>
 - <https://github.com/christianwach/civicrm-wp-member-sync>

Resources

- Override CiviCRM Shortcode Button by Post Type
 - <https://gist.github.com/christianwach/291e646c1306a6652a4a>
- WordPress Issues
 - <http://tdpl.cc/wpcvissues>
- URL issue
 - <https://issues.civicrm.org/jira/browse/CRM-16235>
- Bootstrapping WP Issue
 - <http://tdpl.cc/wpcvbootstrap>

QUESTIONS?



IMPLEMENTING AND DEVELOPING FOR WORDPRESS IN CIVICRM 4.6 AND BEYOND

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April 2015

Tadpole Collective

@kristiano