

Multisite

@jeremyfelt

History

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Context
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Network: \$current_site

```
$current_site->id;           // The ID of the network in the wp_site table.  
$current_site->domain;  
$current_site->path;        // Uses leading and trailing slashes - '/path/'  
$current_site->blog_id;     // The blog_id of the network's main site.
```

```
mysql> SELECT * FROM wp_site;
```

id	domain	path
1	jeremyfelt.com	/

```
1 row in set (0.00 sec)
```


Site: `$current_blog`

```
$current_blog->blog_id; // The ID of the site in the wp_blogs table.
$current_blog->site_id; // The ID of the site's network in the wp_site table.
$current_blog->domain;
$current_blog->path; // Uses leading and trailing slashes - '/path/'
$current_blog->.... // More data directly from the wp_blogs record.
```

```
mysql> SELECT blog_id, site_id, domain, path FROM wp_blogs;
```

```
+-----+-----+-----+-----+
| blog_id | site_id | domain          | path      |
+-----+-----+-----+-----+
| 1       | 1       | jeremyfelt.com | /         |
| 2       | 1       | jeremyfelt.com | /photos/ |
+-----+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```

get_site_by_path()

```
/**
 * Retrieve a site object by its domain and path.
 *
 * @param string $domain Domain to check.
 * @param string $path Path to check.
 * @param int|null $segments Path segments to use.
 */
function get_site_by_path( $domain, $path, $segments = null ) {

    // Use $wpdb to find matching site data from wp_blogs
    $site = $wpdb->get_row( $wpdb->prepare( "SELECT * FROM $wpdb->blogs
        WHERE domain = %s AND path = %s", $domains[0], $paths[0] ) );
}
}
```

get_network_by_path()

```
/**
 * Retrieve a network object by its domain and path.
 *
 * @param string $domain Domain to check.
 * @param string $path Path to check.
 * @param int|null $segments Path segments to use.
 */
function get_network_by_path( $domain, $path, $segments = null ) {

    // Use $wpdb to find matching network data from wp_site
    $networks = $wpdb->get_results( "SELECT id, domain, path FROM $wpdb->site
    WHERE domain IN ($search_domains) AND path IN ($search_paths)
    ORDER BY CHAR_LENGTH(domain) DESC, CHAR_LENGTH(path) DESC" );

}
```

wp-includes/ms-settings.php

```
$domain = strtolower( stripslashes( $_SERVER[ 'HTTP_HOST' ] ) );

if ( substr( $domain, -3 ) == ':80' ) {
    $domain = substr( $domain, 0, -3 );
    $_SERVER[ 'HTTP_HOST' ] = substr( $_SERVER[ 'HTTP_HOST' ], 0, -3 );
} elseif ( substr( $domain, -4 ) == ':443' ) {
    $domain = substr( $domain, 0, -4 );
    $_SERVER[ 'HTTP_HOST' ] = substr( $_SERVER[ 'HTTP_HOST' ], 0, -4 );
}

$path = stripslashes( $_SERVER[ 'REQUEST_URI' ] );

if ( is_admin() ) {
    $path = preg_replace( '#(.*)/wp-admin/.*#', '$1/', $path );
}

list( $path ) = explode( '?', $path );
```

wp-includes/ms-settings.php

```
if ( defined( 'DOMAIN_CURRENT_SITE' ) && defined( 'PATH_CURRENT_SITE' ) ) {  
  
    $current_site = new stdClass;  
    $current_site->id = defined( 'SITE_ID_CURRENT_SITE' ) ? SITE_ID_CURRENT_SITE : 1;  
    $current_site->domain = DOMAIN_CURRENT_SITE;  
    $current_site->path = PATH_CURRENT_SITE;  
  
    if ( defined( 'BLOG_ID_CURRENT_SITE' ) ) {  
        $current_site->blog_id = BLOG_ID_CURRENT_SITE;  
    }  
}
```

wp-config.php

```
define( 'DOMAIN_CURRENT_SITE', 'jeremyfelt.com' );  
define( 'PATH_CURRENT_SITE', '/' );  
define( 'SITE_ID_CURRENT_SITE', 1 );  
define( 'BLOG_ID_CURRENT_SITE', 1 );
```

Subdirectory Configuration

All sites on a network have the same domain and different paths

Populate `$current_site` first

If more than one network exists, use `get_network_by_path()`

Populate `$current_blog` using `get_site_by_path()`

```
mysql> SELECT blog_id, site_id, domain, path FROM wp_blogs;
+-----+-----+-----+-----+
| blog_id | site_id | domain          | path      |
+-----+-----+-----+-----+
| 1       | 1       | jeremyfelt.com | /         |
| 2       | 1       | jeremyfelt.com | /photos/  |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Subdomain Configuration

Sites on a network have different subdomains

Sites can also have different paths

Populate `$current_blog` first using `get_site_by_path()`

Populate `$current_site` using the `site_id` attached to the `$current_blog` object

```
mysql> SELECT blog_id, site_id, domain, path FROM wp_blogs;
+-----+-----+-----+-----+
| blog_id | site_id | domain                | path  |
+-----+-----+-----+-----+
| 1       | 1       | jeremyfelt.com        | /     |
| 2       | 1       | photos.jeremyfelt.com | /     |
| 3       | 2       | alsoadomain.com       | /howdy/ |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

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wp_usermeta

```
mysql> SELECT * FROM wp_usermeta WHERE meta_key LIKE '%_capabilities';
```

umeta_id	user_id	meta_key	meta_value
10	1	wp_capabilities	a:1:{s:13:"administrator";b:1;}
32	2	wp_capabilities	a:1:{s:13:"administrator";b:1;}
47	1	wp_2_capabilities	a:1:{s:13:"administrator";b:1;}
54	2	wp_2_capabilities	a:1:{s:11:"contributor";b:1;}
58	3	wp_2_capabilities	a:1:{s:6:"editor";b:1;}
60	3	wp_capabilities	a:1:{s:6:"author";b:1;}

```
6 rows in set (0.00 sec)
```

wp-includes/ms-settings.php

```
/** Include Multisite initialization functions */
require_once( ABSPATH . WPINC . '/ms-load.php' );
require_once( ABSPATH . WPINC . '/ms-default-constants.php' );

if ( defined( 'SUNRISE' ) ) {
    // Load custom logic to find a network and site.
    include_once( WP_CONTENT_DIR . '/sunrise.php' );
}

ms_subdomain_constants();

if ( !isset( $current_site ) || !isset( $current_blog ) ) {
    // Default core logic to find a network and site.
}

$wpdb->set_prefix( $table_prefix, false );
$wpdb->set_blog_id( $current_blog->blog_id, $current_blog->site_id );
$table_prefix = $wpdb->get_blog_prefix();
```

wp-content/sunrise.php

```
//Capture the domain and path from the current request
$req_domain    = $_SERVER[ 'HTTP_HOST' ];
$req_uri       = trim( $_SERVER[ 'REQUEST_URI' ], '/' );

// We currently support one subdirectory deep, and therefore
// only look at the first path level.
$req_uri_parts = explode( '/', $req_uri );
$req_path      = $req_uri_parts[0] . '/';

wp_cache_add_global_groups( 'wsuwp:network' );
wp_cache_add_global_groups( 'wsuwp:site' );

// If we're dealing with a root domain, we want to leave it
// at a path of '/'
if ( '/' !== $req_path ) {
    $req_path = '/' . $req_path;
}

if ( ! $current_blog = wp_cache_get( $req_domain . $req_path, 'wsuwp:site' ) ) {
```

wp-content/sunrise.php

```
// Start with the assumption that SSL is available for this domain.
$current_blog->ssl_enabled = true;
// We're looking for a base option name of foo.bar.com_ssl_disabled
$ssl_domain_check = $requested_domain . '_ssl_disabled';
$non_ssl_domain = $wpdb->get_row( $wpdb->prepare( "SELECT option_id FROM [...]" ) );

if ( is_object( $non_ssl_domain ) ) {
    $current_blog->ssl_enabled = false;
}

wp_cache_add( $req_domain . $req_path, $current_blog, 'wsuwp:site', 60 * 60 * 12 );

if ( isset( $current_blog->ssl_enabled ) && true === $current_blog->ssl_enabled ) {
    define( 'FORCE_SSL_ADMIN', true );
    define( 'FORCE_SSL_LOGIN', true );
}
```

Context

```
switch_to_blog( $id )
```

switch_to_blog(\$id)

```
$GLOBALS['_wp_switched_stack'][] = $GLOBALS['blog_id'];  
// ...  
$GLOBALS['switched'] = true;
```

Store a record of the current context in an array that we can walk back through.

switch_to_blog(\$id)

```
$wpdb->set_blog_id( $new_blog );  
$GLOBALS['table_prefix'] = $wpdb->get_blog_prefix();  
$prev_blog_id = $GLOBALS['blog_id'];  
$GLOBALS['blog_id'] = $new_blog;
```

Context changes:

- `$blog_id` property of `$wpdb`
- Database table prefix used by `$wpdb` to `wp_#_` from `wp_`
- Global `$blog_id`

switch_to_blog(\$id)

```
wp_cache_init();  
wp_cache_add_global_groups( $global_groups );  
wp_cache_add_non_persistent_groups( array( ... ) );
```

Context changes:

- Uses the global `$table_prefix` to reinitialize object cache with keys for the switched site.

switch_to_blog(\$id)

```
$wp_roles->reinit();  
$current_user = wp_get_current_user();  
$current_user->for_blog( $new_blog );
```

Context changes:

- Uses `$wpdb->get_blog_prefix()` to set a prefix for grabbing `wp_#_user_roles` from `get_option()`

switch_to_blog(\$id)

```
// Delete the rewrite_rules option from
// the switched site. Good!
delete_option( 'rewrite_rules' );

// Build the permalink structure in the
// context of the main site. Bad!
$this->rewrite_rules();

// Update the rewrite_rules option for the
// switched site. Horrible!
update_option( 'rewrite_rules', $this->rules );
```

Does not change the context of rewrite rules.

<https://jeremyfelt.com/multisite-rewrite-rules/>

switch_to_blog(\$id)

Does not change the context of code.

Only the theme and plugins activated for the original site will be available.

restore_current_blog()

```
if ( empty( $GLOBALS['_wp_switched_stack'] ) )
    return false;

$blog = array_pop( $GLOBALS['_wp_switched_stack'] );

// ...

$wpdb->set_blog_id( $blog );
$prev_blog_id = $GLOBALS['blog_id'];
$GLOBALS['blog_id'] = $blog;
$GLOBALS['table_prefix'] = $wpdb->get_blog_prefix();
```

Restore context to the last used site via `$GLOBALS['_wp_switched_stack']`.

ms_is_switched()

```
// Loop until $GLOBALS['_wp_switched_stack'] is clear.  
while ( ms_is_switched() ) {  
    restore_current_blog();  
}
```

Determine if context is switched and when we're back to normal.

is_main_site()

```
function is_main_site( $site_id = null ) {  
    // This is the current network's information  
    global $current_site;  
  
    if ( ! is_multisite() )  
        return true;  
  
    if ( ! $site_id )  
        $site_id = get_current_blog_id();  
  
    return (int) $site_id === (int) $current_site->blog_id;  
}
```

is_main_network()

```
function is_main_network( $network_id = null ) {
    $current_network_id = (int) get_current_site()->id;

    if ( ! $network_id )
        $network_id = $current_network_id;

    if ( defined( 'PRIMARY_NETWORK_ID' ) )
        return $network_id === (int) PRIMARY_NETWORK_ID;

    if ( 1 === $current_network_id )
        return $network_id === $current_network_id;

    if ( $primary_network_id )
        return $network_id === $primary_network_id;

    $primary_network_id = $wpdb->get_var( "SELECT id FROM $wpdb->site..." );

    return $network_id === $primary_network_id;
}
```
















`get_main_network_id()` will be available in 4.3


```
get_blog_details()  
get_current_site()
```

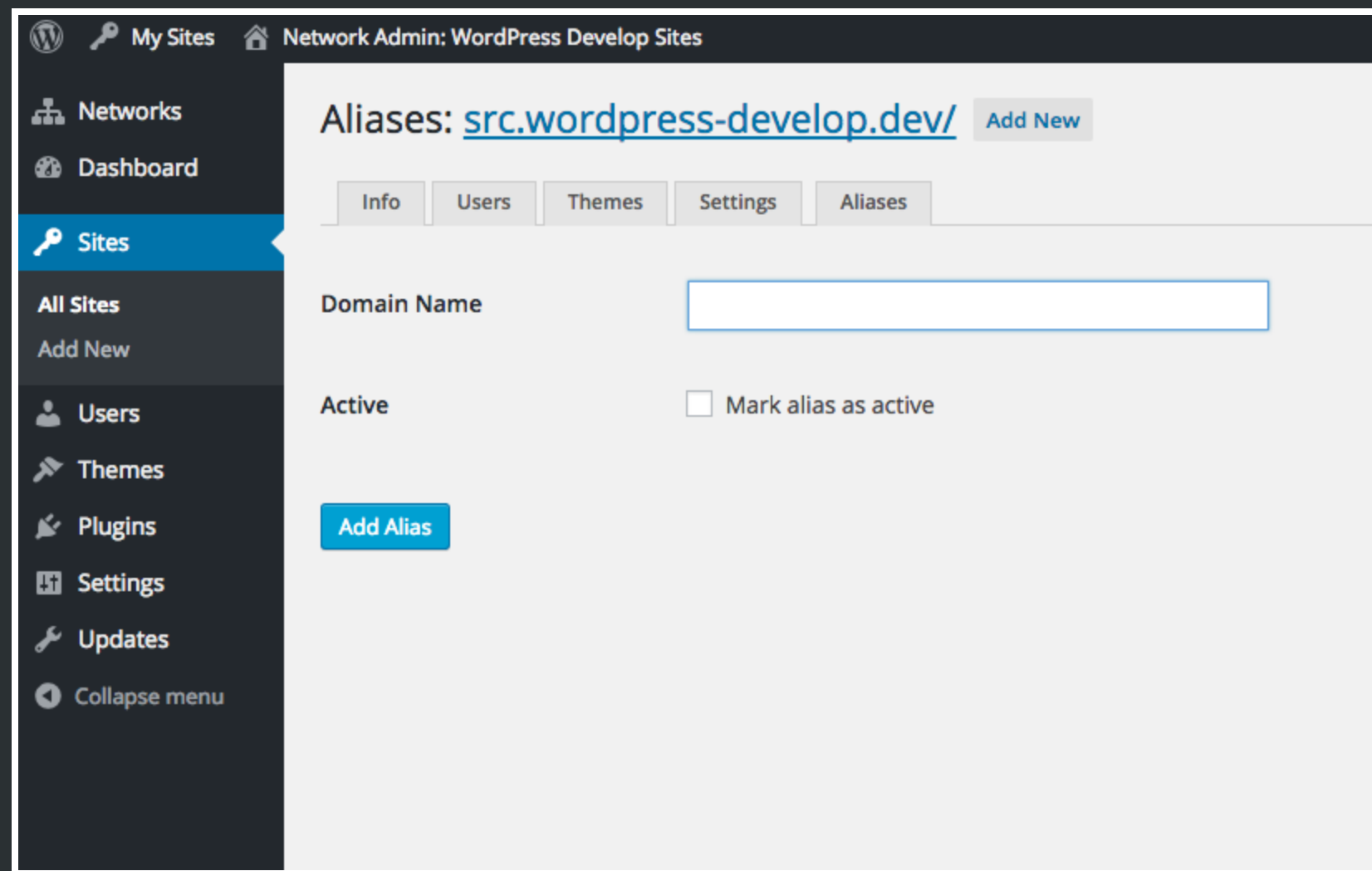
Extension

Must Use Plugins

wp-content/mu-plugins/

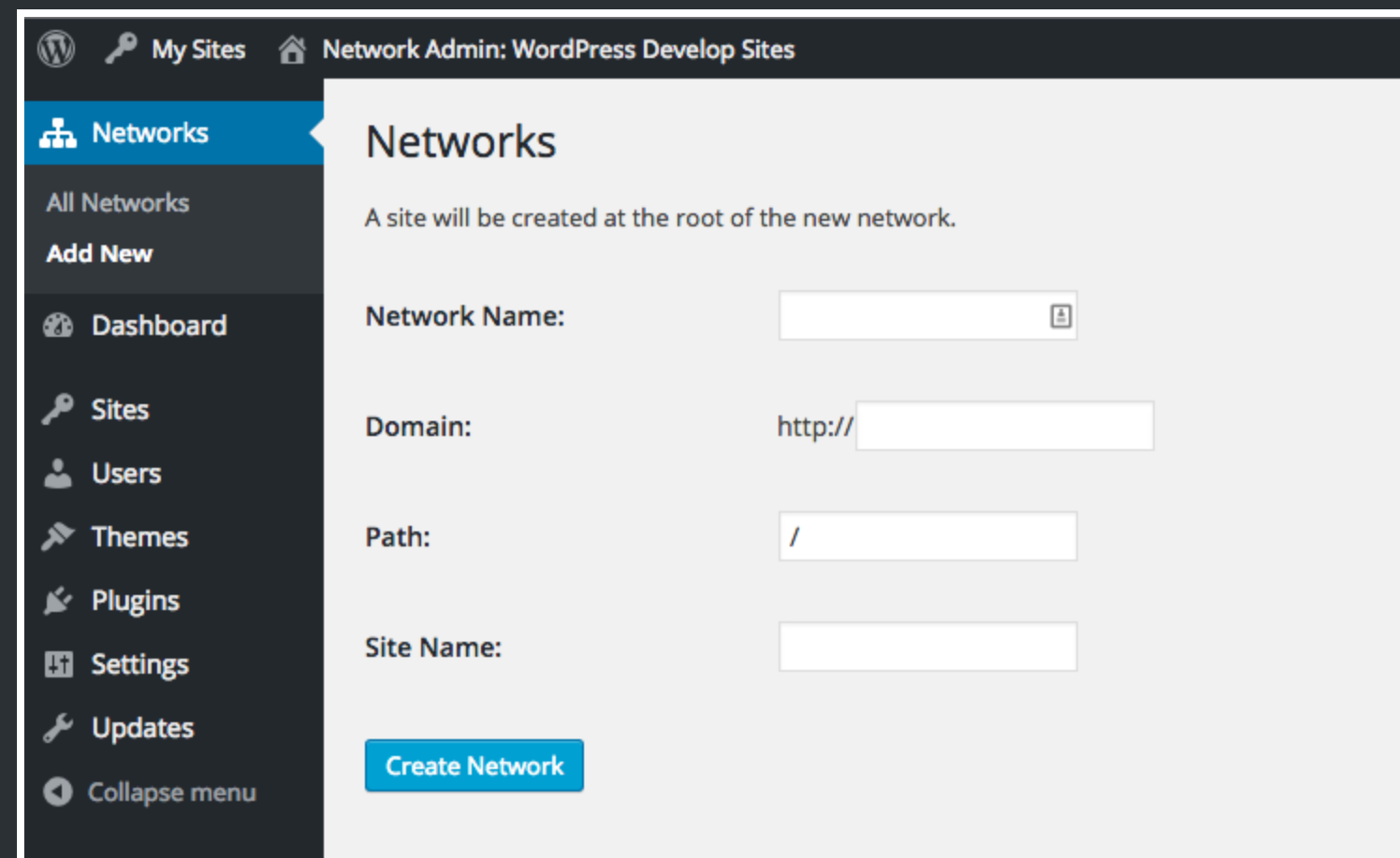
 batcache.php	Bump version number on Batcache advanced	11 months ago
 bp-multi-network.php	Add BP Multi Network plugin to platform	9 days ago
 index.php	Bump version 1.3.2	9 days ago
 wsu-admin-header.php	Remove New Post and Manage Comments from admin menu if super admin	27 days ago
 wsu-core-filters.php	Filter the global submenu to remove options-permalink for all users	9 months ago
 wsu-core-functions.php	Align defaults in `populate_network_meta()` with hard coded option	3 months ago
 wsu-dashboard-widgets.php	Format cache hits to show thousands and millions	5 months ago
 wsu-network-admin.php	Only unset the settings submenu if it exists	9 days ago
 wsu-network-site-info.php	Allow for consistent editing of "extended" network option	3 months ago
 wsu-network-site-new.php	On any new site install, clear the domain/path request cache for that...	5 months ago
 wsu-network-sites-list.php	Add a plugin header to WSU Network Sites List	10 months ago
 wsu-network-users.php	Only modify the user query if NOT an ajax request	6 months ago
 wsu-roles-and-capabilities.php	Allow contributors to edit their own pages for review	9 months ago
 wsu-user-management.php	s/username/Username/ for consistency in add new user messaging	6 months ago
 wsuwp-taxonomy.php	Register built in taxonomies to media	11 months ago

Domain "Mapping"



Mercator - <https://github.com/humanmade/Mercator>

Multiple Networks



The screenshot shows the WordPress Network Admin interface. The top navigation bar includes the WordPress logo, 'My Sites', and 'Network Admin: WordPress Develop Sites'. The left sidebar menu is expanded to 'Networks', which includes 'All Networks', 'Add New', 'Dashboard', 'Sites', 'Users', 'Themes', 'Plugins', 'Settings', 'Updates', and 'Collapse menu'. The main content area is titled 'Networks' and contains the following text: 'A site will be created at the root of the new network.' Below this text are four input fields: 'Network Name:' with a text input and a help icon; 'Domain:' with a text input containing 'http://'; 'Path:' with a text input containing '/'; and 'Site Name:' with a text input. A blue 'Create Network' button is located at the bottom of the form.

WP Multi Network - <https://wordpress.org/plugins/wp-multi-network/>

HyperDB

<https://wordpress.org/plugins/hyperdb/>

wp_options
wp_posts
wp_postmeta
wp_comments
wp_commentmeta
wp_terms
wp_term_taxonomy
wp_term_relationships

wp_users
wp_usermeta

wp_blogs
wp_blog_versions
wp_registration_log
wp_signups
wp_site
wp_sitemeta

wp_2_options
wp_2_posts
wp_2_postmeta
wp_2_comments
wp_2_commentmeta
wp_2_terms
wp_2_term_taxonomy
wp_2_term_relationships

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wp_5_term_relationships

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wp_6_posts
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wp_6_term_taxonomy
wp_6_term_relationships

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wp_18_term_taxonomy
wp_18_term_relationships

Object Caching

Future

Multisite

Office Hours: Tuesday, 20:00 UTC in #core-multisite

Slides: jeremyfelt.com/wcyvr-2015/

@jeremyfelt