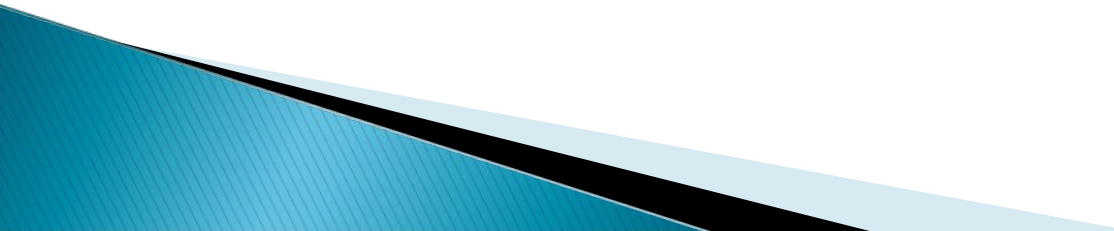


# The Power of Custom Post Types

John Havlik (@mtekkmonkey)



# About Me

- ▶ WordPress user since 2005
  - ▶ Plugin developer since 2006
    - Breadcrumb NavXT (~600k downloads)
  - ▶ Administrator for Weblogs.us
  - ▶ WordPress expert for Ingroup Design
  - ▶ Personal site: [mtekk.us](http://mtekk.us)
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# Agenda

- ▶ Motivation
- ▶ Basic Usage
- ▶ (More) Advanced Usage
- ▶ CPT Showcase (Demos)
  - bbPress
  - WP E-Commerce
  - Meteor Slides

# A Problem

- ▶ Creating a site with a portfolio
  - Must keep projects separate from a news section
  - Try categories
  - Resort to “hidden” categories to keep things straight
- ▶ This doesn't work well with plugins

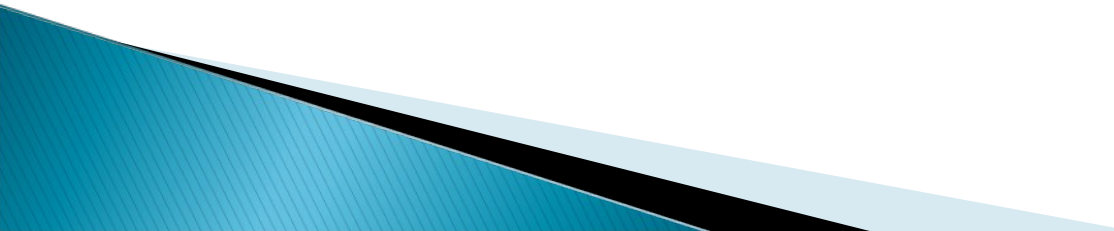
# Use a Custom Post Type

»» (and some custom taxonomies)

# What is a CPT?

- ▶ Custom Post Types (CPTs) are post types you define.
  - Posts, pages, attachments, custom menus are types WordPress defines
- ▶ Come in 2 flavors
  - Hierarchical
  - Flat

# Plugins that use CPTs

- ▶ bbPress 2.0+
  - ▶ WP e-Commerce 3.8+ (GetShopped)
  - ▶ Meteor Slides
- 

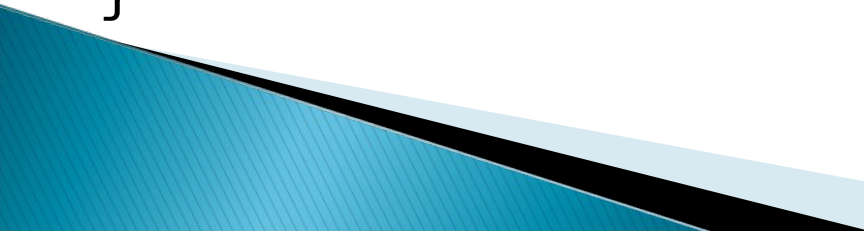
# How to Create a CPT

- ▶ Use `register_post_type($post_type, $args);`
  - `$post_type` is the unique post type string (20 char max, no uppercase or spaces)
  - `$args` is the array of arguments to customize the CPT
- ▶ Call using a hook into the init action
- ▶ Do this in a plugin
  - `functions.php` is not portable between themes



# Example Code

```
add_action('init', 'create_my_project');
function create_my_project()
{
    register_post_type('project',
        array(
            'labels' =>
                array(
                    'name' => __('Projects'),
                    'singular_name' => __('Project')
                ),
            'public' => true,
            'has_archive' => true)
        );
}
```



- Dashboard
- Posts
- Media
- Links
- Pages
- Comments 2
- No Taxonomy
- Hierchy
- Runs
- Projects
  - Projects
  - Add New
- Appearance
- Plugins 9
- Users
- Tools
- Settings
- Collapse menu

# Add New Post

Enter title here

Upload/Insert

Visual HTML

Rich text editor toolbar containing icons for Bold (B), Italic (I), Underline (U), Paragraph (Paragraph), Text color (A), Background color (W), Undo, Redo, and other editing functions.

Main content area for writing the post.

Path: p  
Word count: 0

**Publish**

Save Draft Preview

Status: Draft [Edit](#)

Visibility: Public [Edit](#)

[Publish immediately](#) [Edit](#)

[Move to Trash](#) [Publish](#)

# Naming Your CPT

- ▶ Make it unique
  - **BAD**: projects
  - **GOOD**: mtekk\_projects
- ▶ Max length of 20 characters
- ▶ No:
  - s p a c e s
  - UPPERCASE
  - wp\_ prefix

# The \$args

- ▶ Key attributes to look at:
  - labels – array of labels
  - show\_ui
  - capabilities – array of permissions
  - supports – array of features
  - rewrite – array of rewrite related stuff
  - hierarchical
- ▶ Checkout the Codex for more:  
[http://codex.wordpress.org/Function\\_Reference/register\\_post\\_type](http://codex.wordpress.org/Function_Reference/register_post_type)

# More Complex Example

```
//Our lecture labels
$labels = array(
    'name' => __('Lectures', 'wp_courseware'),
    'singular_name' => __('Lecture', 'wp_courseware'),
    'add_new' => __('Add New', 'wp_courseware'),
    'add_new_item' => __('Add New Lecture', 'wp_courseware'),
    'edit_item' => __('Edit Lecture', 'wp_courseware'),
    'new_item' => __('New Lecture', 'wp_courseware'),
    'view_item' => __('View Lecture', 'wp_courseware'),
    'search_items' => __('Search Lectures', 'wp_courseware'),
    'not_found' => __('No lectures found', 'wp_courseware'),
    'not_found_in_trash' => __('No lectures found in Trash', 'wp_courseware'),
    'parent_item_colon' => '',
    'menu_name' => __('Lectures', 'wp_courseware')
);

//Our lecture capabilities
$capabilities = array(
    'edit_post' => 'wptc_edit_lecture',
    'edit_posts' => 'wptc_edit_lectures',
    'edit_others_posts' => 'wptc_edit_others_lectures',
    'publish_posts' => 'wptc_publish_lectures',
    'read_post' => 'wptc_read_lecture',
    'read_private_posts' => 'wptc_read_private_lectures',
    'delete_post' => 'wptc_delete_lecture'
);

//Assemble our post type arguments, keeping capabilities default until later
$args = array(
    'labels' => $labels,
    'public' => true,
    'publicly_queryable' => false,
    'exclude_from_search' => true,
    'show_ui' => true,
    'show_in_menu' => false,
    'menu_icon' => plugins_url('/lecture-icon-20x20.png', __FILE__),
    'capability_type' => 'lecture',
    'capabilities' => $capabilities,
    'map_meta_cap' => true,
    'hierarchical' => false,
    'supports' => array('title', 'page-attributes'),
    'taxonomies' => array('course'),
    'has_archive' => false,
    'rewrite' => false,
    'query_var' => true,
    'can_export' => true,
    'show_in_nav_menus' => false
);
register_post_type('lecture', $args);
```

- Dashboard
- Posts
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- Users
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- Settings
- Courses
- Collapse menu

Screen Options

# Edit Lecture Add New

## How to Peel a Head of Garlic

### Lecture Video



<http://vimeo.com/29605182>

### Followup Remarks

Visual HTML

**B** **I** **U** “ **ABC** [List icons] [Undo] [Redo] [Link] [Image]

**Remember:**

1. Don't use forehead to smash head of garlic

### Publish

[Preview Changes](#)

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

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

Published on: **Mar 25, 2012 @ 18:21** [Edit](#)

[Move to Trash](#)

[Update](#)

### Courses

All Courses **Most Used**

- Cooking Basics
- Advanced Cooking
- Off-Sale
- On-Sale

[+ Add New Course](#)

### Attributes

Order

# An Easier Way

## ► Custom Post Type UI

- <http://wordpress.org/extend/plugins/custom-post-type-ui/>

### Create New Custom Post Type or Taxonomy · [Reset](#)

If you are unfamiliar with the options below only fill out the **Post Type Name** and **Label** fields and check which meta boxes to support. The other settings are set to the most common defaults for custom post types.

Post Type Name \*  ? (e.g. movies)

Label  ? (e.g. Movies)

Singular Label  ? (e.g. Movie)

Description

[Advanced Label Options](#) · [Advanced Options](#)

Create Custom Post Type

If you are unfamiliar with the options below only fill out the **Taxonomy Name** and **Post Type Name** fields. The other settings are set to the most common defaults for custom taxonomies.

Taxonomy Name \*  ? (e.g. actors)

Label  ? (e.g. Actors)

Singular Label  ? (e.g. Actor)

Attach to Post Type \*  Posts  
 Pages  
 No Taxonomy  
 Hierchy  
 Runs  
 Projects

[Advanced Label Options](#) · [Advanced Options](#)

Create Custom Taxonomy

# Demo

- »» An advanced use of CPTs and custom taxonomies



# Displaying CPTs

- ▶ Templates for the frontend:
  - `single-{posttype}.php` (since 3.0)
  - `archive-{posttype}.php` (since 3.1)
- ▶ Custom `WP_Query` instance:
  - `$projects = new WP_Query(array('post_type' => 'project', 'posts_per_page' => 10));`
  - `while($projects->have_posts){$projects->the_post(); /*your code here*/}`
  - Can do this anywhere
  - Can use `get_posts()` wrapper for `WP_Query`

# When to Use a CPT

- ▶ When for anything “post” or “page” like
- ▶ Most things that would have required a custom table in the past
  - Products for a ecommerce site
  - Events for event calendars
- ▶ When you want WordPress to do most of the heavy lifting
  - Attachments, featured images, Dashboard UI, templates, etc.

# Questions?

Twitter: @mtekkmonkey

# Resources

<http://kovshenin.com/2010/extending-custom-post-types-in-wordpress-3-0/>

[http://codex.wordpress.org/Function\\_Reference/register\\_post\\_type](http://codex.wordpress.org/Function_Reference/register_post_type)

[http://codex.wordpress.org/Post\\_Types](http://codex.wordpress.org/Post_Types)

