

Building a Better WordPress through Software Archaeology

Boone Gorges

WordCamp NYC 2016

July 16, 2016

Boone

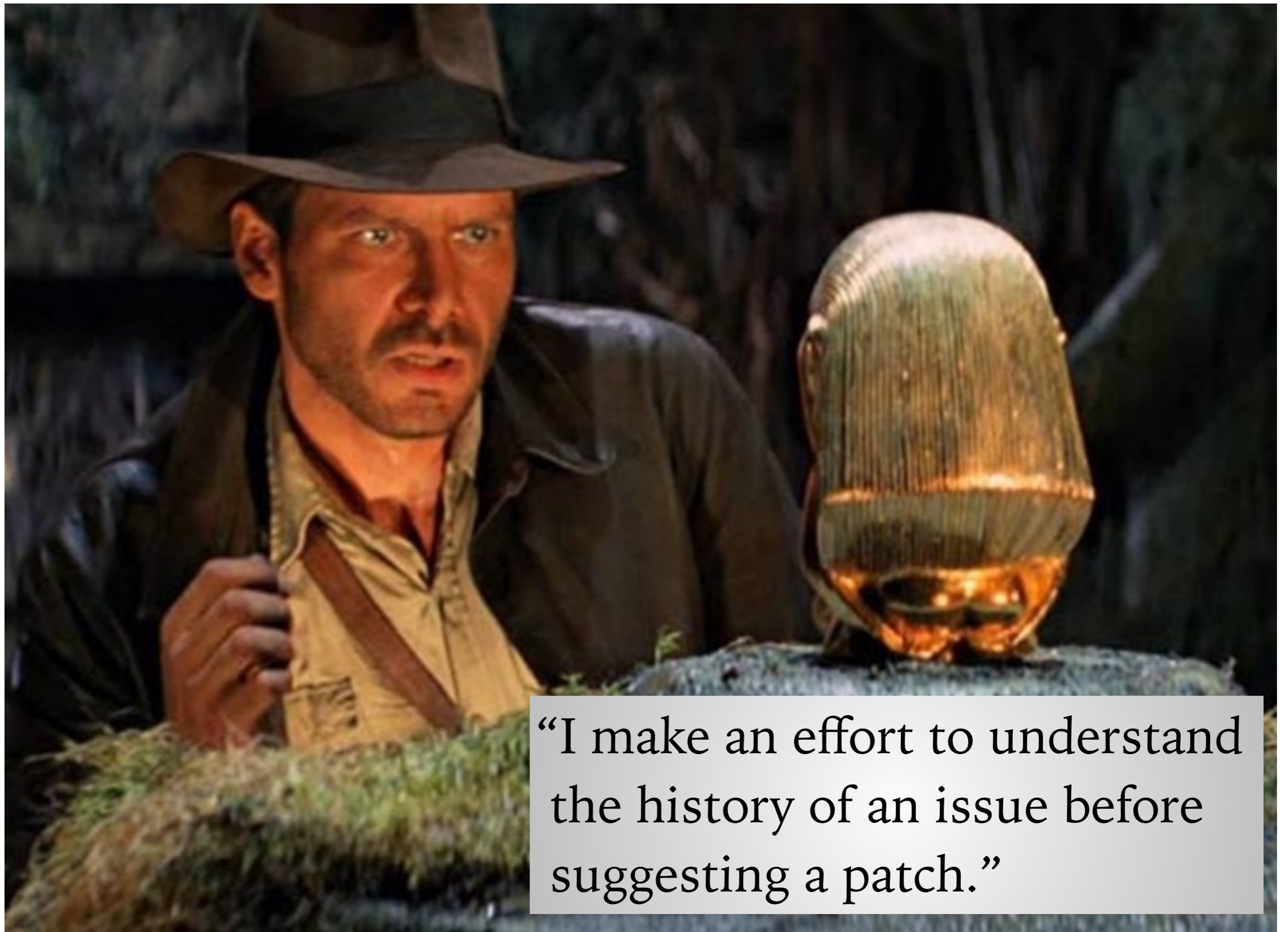


- WordPress core committer
- BuddyPress lead developer
- Developer and consultant, Hard G
- Timelessly stylish

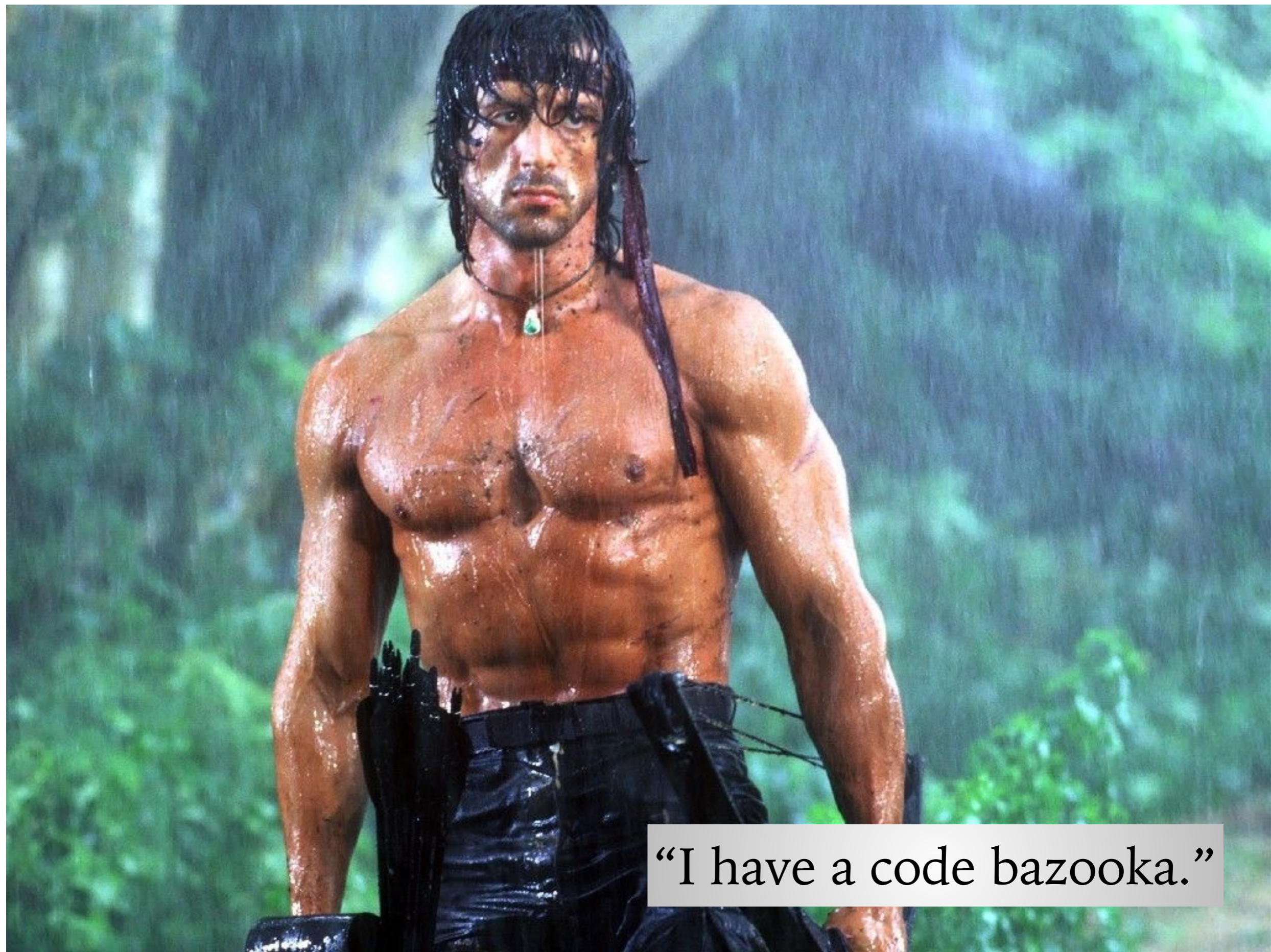
The bug hunter



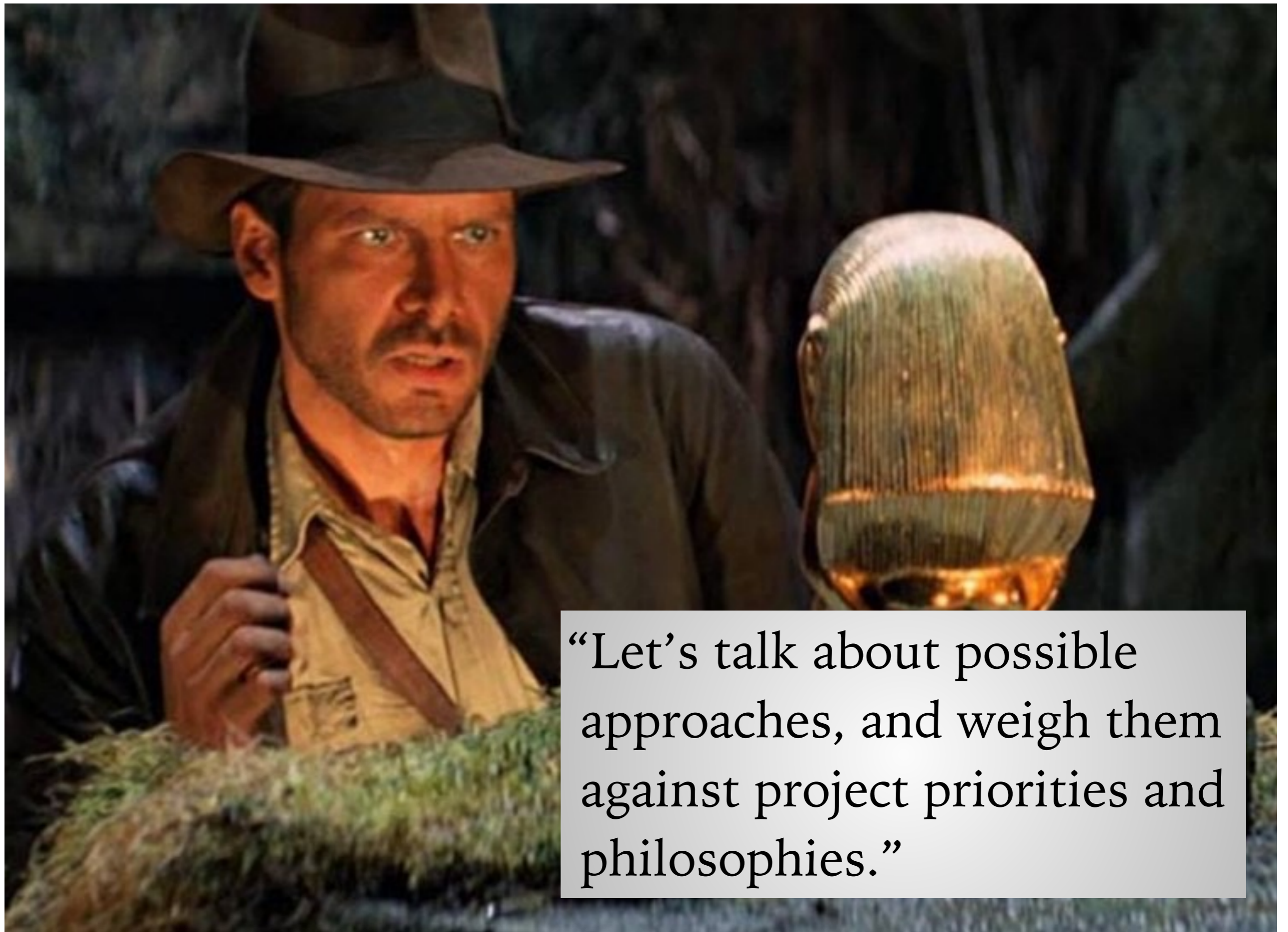





“I make an effort to understand the history of an issue before suggesting a patch.”



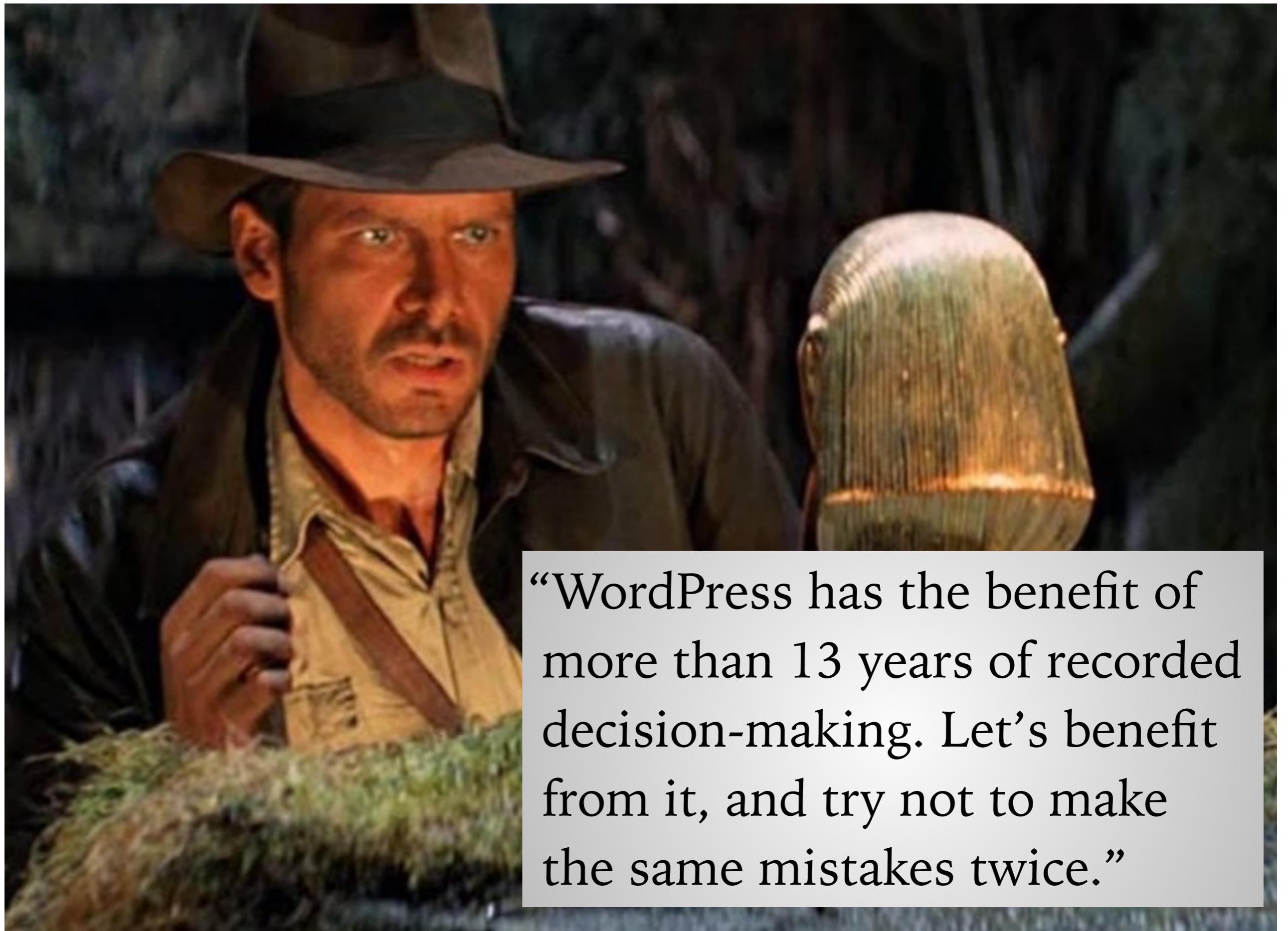
“I have a code bazooka.”



“Let’s talk about possible approaches, and weigh them against project priorities and philosophies.”



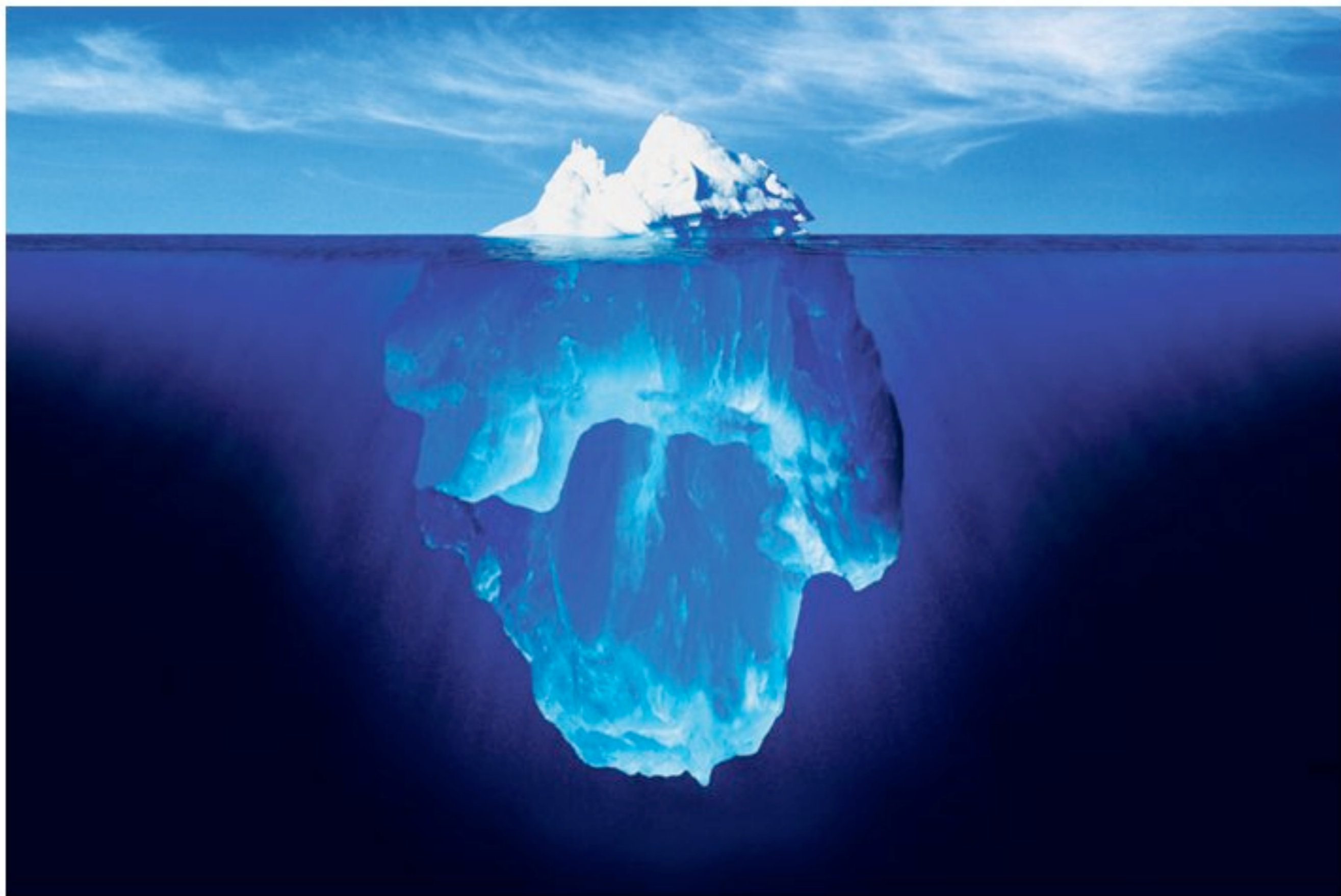
“Why haven’t you committed
my patch yet?”



“WordPress has the benefit of more than 13 years of recorded decision-making. Let’s benefit from it, and try not to make the same mistakes twice.”



“Aaaaaaaaaaaaaauuuuuugh!”



Know your tools

Understanding the discussion history



<> Make WordPress Core

Blog

Handbook

Tickets

Components



logged in as boonebgorges

Notifications

Logout

New Ticket

Search

Search

wp_insert_post

Search

Create a new ticket

☒ Changesets ☒ Tickets

Results (1 - 10 of 403)

1 2 3 4 5 6 7 8 9 10 11 →

[#37119: defect \(bug\): Taxonomies is not adding to post unless user is not logged in \(closed: duplicate\)](#)

```
... php'); include('../wp-admin/includes/taxonomy.php'); wp_insert_post(array( 'post_title' => $t['name'], 'post_type' => 'catalog', 'post_status' => 'publish', 'post_content' => $t['sdescr'], 'tax_input' => array( 'manufacturer' => $t['manufacteur'], 'cat_category' => $_GE ...
```

By dangerd512 — 06/17/16 09:45:35

[#37027: defect \(bug\): Deletion of post with no title, content & excerpt \(closed: duplicate\)](#)

```
... Create a post with following function {{{ add_filter( 'wp_insert_post_empty_content', 'allow_empty_post' ); $this->post_id = wp_insert_post( array( 'post_type' => 'post' ) ); remove_filter( 'wp_insert_post_empty_content', 'allow_empty_post' ); function allow_empty_post( $boolean ) { r ...
```

By Ninos Ego — 06/04/16 12:58:04

[#36891: enhancement: Saving large menus is super slow \(new\)](#)

When saving menus, 'wp-admin/includes/nav-menu.php' calls 'wp_update_nav_menu_item()' for every menu item. This function call can take 0.1-0.4s, when multiplied by 50 (or more!) menu items, is a less than pleasant experience. Because of ...

By pento — 05/20/16 01:37:54

[#36849: enhancement: Filter to limit length of post slug \(filter for _truncate_post_slug\) \(new\)](#)

There are circumstances where you need to limit the length of the post slug. Unfortunately there is no filter in _truncate_post_slug to do so. It will be a great enhancement, if

core.trac.wordpress.org

The screenshot shows a Google search interface. The search bar contains the text "site:core.trac.wordpress.org wp_insert_post". Below the search bar, there are tabs for "All", "Videos", "Shopping", "News", "Images", "More", and "Search tools". The "All" tab is selected. Below the tabs, it says "About 509 results (0.40 seconds)". There are four search results listed, each with a ticket number, a title, a URL, and a snippet of text.

Google

site:core.trac.wordpress.org wp_insert_post

All Videos Shopping News Images More Search tools

About 509 results (0.40 seconds)

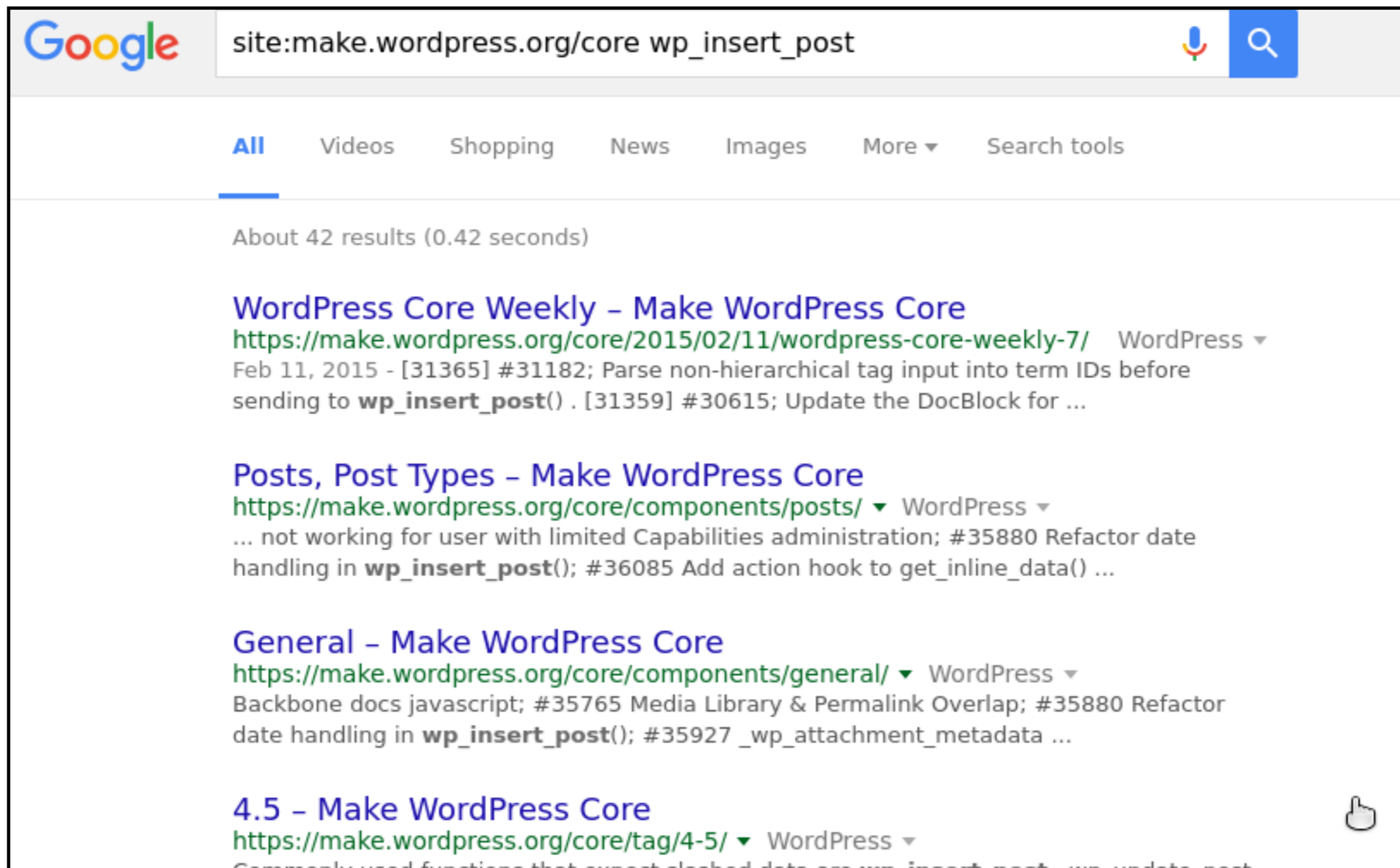
#19373 (wp_insert_post() should not contain current_user_can ...
<https://core.trac.wordpress.org/ticket/19373> ▼
wp_insert_post() is a utility function, it should not have a reliance on user capabilities.
There are only two places in this function where there is a ...

#30854 (`wp_insert_post` doesn't save revision for new publish...
<https://core.trac.wordpress.org/ticket/30854> ▼
Calling wp_insert_post with post_status of publish or any other status on a new post
doesn't save a new revision. The reason for this is the \$update check at the ...

#27335 (wp_insert_post() inserts posts of unregistered post type..
<https://core.trac.wordpress.org/ticket/27335> ▼
if you run something like this: wp_insert_post(array('post_title' => 'My Example', [...]
'post_type' => 'bogus_post_type_that_is_not_registered'));. Your post is ...


#32585 (Programmatically using wp_insert_post with post_autho..
<https://core.trac.wordpress.org/ticket/32585> ▼
Passing a post_author of 0 to wp_insert_post does not work if the user is logged in.

Google site search:
site:core.trac.wordpress.org ...



Google site search:
site:make.wordpress.org/core ...

Visualizing the
history of the codebase



WordPress

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New Ticket

Search

← [Previous Revision](#)

[Next Revision](#) →

[Blame](#)

[Revision Log](#)

source: [trunk](#) / [src](#) / [wp-includes](#) / [post.php](#)

Visit: View revision: View diff against:

Last change on this file was [37985](#), checked in by [SergeyBiryukov](#), [2 days ago](#)

Docs: Use 3-digit, x.x.x-style semantic versioning for `_doing_it_wrong()`, `_deprecated_function()`, `_deprecated_argument()`, and `_deprecated_file()` throughout core.

Props [metodiew](#).

Fixes [#36495](#).

Property svn:eol-style set to native

Property svn:keywords set to Author Date Id Revision

File size: 198.9 KB

Line	
1	<?php
2	/**
3	* Core Post API
4	*
5	* @package WordPress
6	* @subpackage Post
7	*/
8	
9	//
10	// Post Type Registration

core.trac.wordpress.org/browser

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logged in as [boonebgorges](#) [Notifications](#) [Logout](#)

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Visit: View revision: View diff against:

[New Ticket](#)
source: [trunk](#) / [src](#) / [wp-includes](#) / [post.php](#)

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Line	
1	<code><?php</code>
2	<code>/**</code>
3	<code> * Core Post API</code>
4	<code> *</code>
5	<code> * @package WordPress</code>
6	<code> * @subpackage Post</code>
7	<code> */</code>
8	
9	<code>//</code>
10	<code>// Post Type Registration</code>

core.trac.wordpress.org/browser

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[← Previous Revision](#) | Next Revision → | [Blame](#) | [Revision Log](#)

 View revision: View diff against:

core.trac.wordpress.org/browser

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2999

```
}

// Don't allow contributors to set the post slug for pending posts
if ( 'pending' == $post_status && !current_user_can( 'publish_posts' ) )
    $post_name = '';
}

/*
 * Create a valid post name. Drafts and pending posts allow
 * an empty post name.
 */
if ( empty($post_name) ) {
    if ( !in_array( $post_status, array( 'draft', 'pending' ) ) )
        $post_name = sanitize_title($post_title);
    else {
        $post_name = '';
    }
}
```

[13184]	2982	<code>\$post_category = array();</code>
[28469]	2983	<code>}</code>
[1353]	2984	<code>}</code>
	2985	
[29093]	2986	<i>// Don't allow contributors to set the post</i>
[28469]	2987	<code>if ('pending' == \$post_status && !current_</code>
[9055]	2988	<code>\$post_name = '';</code>
[28469]	2989	<code>}</code>
[9055]	2990	
[29093]	2991	<i>/*</i>
	2992	<i>* Create a valid post name. Drafts and pen</i>
	2993	<i>* an empty post name.</i>
	2994	<i>*/</i>
[13770]	2995	<code>if (empty(\$post_name)) {</code>
[28469]	2996	<code>if (!in_array(\$post_status, array</code>
[2948]	2997	<code>\$post_name = sanitize_title</code>
[28469]	2998	<code>} else {</code>

?annotate=blame

[1353]	2984	}
	2985	
[29093]	2986	<i>// Don't allow contributors to set the post slug for pending review posts.</i>
[28469]	2987	if ('pending' == \$post_status)
[9055]	2988	\$post_name = '';
[28469]	2989	}
[9055]	2990	
[29093]	2991	<i>/*</i>
	2992	<i> * Create a valid post name. Dr</i>
	2993	<i> * an empty post name.</i>
	2994	<i>*/</i>
[13770]	2995	if (empty (\$post_name)) {
[28469]	2996	if (!in_array (\$post_s
[2948]	2997	\$post_name = sa
[28469]	2998	} else {
[11071]	2999	\$post_name = ''
[28469]	3000	}
[2647]	3001	} else {
[19444]	3002	<i>// On updates, we need</i>
	3003	\$check_name = sanitize_
[28469]	3004	if (\$update && strtolower (urlencode (
[19444]	3005	\$post_name = \$c
[28469]	3006	} else { <i>// new post, o</i>
[19444]	3007	\$post_name = sa
[28469]	3008	}
[2647]	3009	}
	3010	
[29093]	3011	<i>/*</i>
	3012	<i> * If the post date is empty (d</i>
	3013	<i> * is not 'draft' or 'pending',</i>
	3014	<i>*/</i>

Changeset 28469

Timestamp: 05/17/14 15:52:11 (2 years ago)
Author: wonderboymusic

Message: Eliminate the use of `extract()` in wp

See [#22400](#).

File:

1 edited

[trunk/src/wp-includes/post.php](#) (8 di

☐ Unmodified ☐ Added ☐ Removed

trunk/src/wp-includes/post.php		
r28382	r28469	
2924	2924	\$postarr = sanitize_post (\$postarr , 'db')
2925	2925	
2926		<i>// export array as variables</i>
2927		extract (\$postarr , EXTR_SKIP);
2928		
2929	2926	<i>// Are we updating or creating?</i>

?annotate=blame

[1353]	2984	}
	2985	
[29093]	2986	<i>// Don't allow contributors to set the post slug for pending review posts.</i>
[28469]	2987	if ('pending' == \$post_status
[9055]	2988	\$post_name = '';
[28469]	2989	}
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	3014	<i>*/</i>

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Message: Eliminate the use of `extract()` in `wp`
See [#22400](#).

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- 1 edited
- [trunk/src/wp-includes/post.php](#) (8 di

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2924	2924	<code>\$postarr = sanitize_post(\$postarr, 'db')</code>
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2927		<code>extract(\$postarr, EXTR_SKIP);</code>
2928		
2929	2926	<code>// Are we updating or creating?</code>

?annotate=blame&rev=28468

[2647]	2994	<code>if (empty(\$post_author))</code>
[25669]	2995	<code> \$post_author = \$user_id;</code>
[2647]	2996	
[17698]	2997	<i>// Don't allow contributors to set the post slug</i>
[9055]	2998	<code>if ('pending' == \$post_status && !current_user_</code>
	2999	<code> \$post_name = '';</code>
	3000	
[19593]	3001	<i>// Create a valid post name. Drafts and pending</i>
[2647]	3002	<i>// post name.</i>
[13770]	3003	<code>if (empty(\$post_name)) {</code>
[12987]	3004	<code> if (!in_array(\$post_status, array('dr</code>
[2948]	3005	<code> \$post_name = sanitize_title(\$pos</code>
[11071]	3006	<code> else</code>
	3007	<code> \$post_name = '';</code>
[2647]	3008	<code>} else {</code>
[19444]	3009	<i>// On updates, we need to check to see i</i>
	3010	<code> \$check_name = sanitize_title(\$post_name</code>

?annotate=blame&rev=28468

[17698]	2997	// Don't allow contributors to set the post slug for pending review posts
[9055]	2998	if ('pending' == \$post_status)
	2999	\$post_name = '';
	3000	
[19593]	3001	// Create a valid post name. Drafts are allowed to have an empty
[2647]	3002	// post name.
[13770]	3003	if (empty(\$post_name)) {
[12987]	3004	if (!in_array(\$post_status, array('draft', 'pending')))
[2948]	3005	\$post_name = sanitize_title(\$post_title);
[11071]	3006	else
	3007	\$post_name = '';
[2647]	3008	} else {
[19444]	3009	// On updates, we need to check the slug.
	3010	\$check_name = sanitize_title(\$post_title);
	3011	if (\$update && strtolower(urlencode(\$check_name)) == strtolower(urlencode(\$post_name)))
	3012	\$post_name = \$check_name;
	3013	else // new post, or slug change
	3014	\$post_name = sanitize_title(\$post_title);
[2647]	3015	}
	3016	
[9055]	3017	// If the post date is empty (drafts are allowed to have an empty date)
	3018	if (empty(\$post_date) '0000-00-00' == \$post_date)
	3019	\$post_date = current_time('mysql', \$post_status == 'draft' ? true : false);
[3074]	3020	
[21921]	3021	// validate the date
	3022	\$mm = substr(\$post_date, 5, 2);
	3023	\$jj = substr(\$post_date, 8, 2);
	3024	\$aa = substr(\$post_date, 11, 2);
[21922]	3025	\$valid_date = wp_check_date(\$mm, \$jj, \$aa);
[21921]	3026	if (!\$valid_date) {
[21922]	3027	if (\$wp_error)
	3028	return false;
	3029	else
	3030	return false;
[21921]	3031	}
	3032	

Changeset 9055

Timestamp: 10/02/08 04:10:54 (8 years ago)

Author: markjaquith

Message: Do not allow contributors to set the post slug for pending review posts. fixes [#7805](#)

Location: [trunk](#)

Files:

- 2 edited
- [wp-admin/edit-form-advanced.php](#) (view diffs)
- [wp-includes/post.php](#) (4 diffs)

☐ Unmodified ☐ Added ☐ Removed

trunk/wp-includes/post.php

r8966	r9055	
1351	1351	}
1352	1352	
1353		// Create a valid post name. Drafts are allowed to have an empty
	1353	// Don't allow contributors to set to set the post slug for pending review posts
	1354	if ('pending' == \$post_status && !current_user_can('publish_posts'))
	1355	\$post_name = '';
	1356	
	1357	// Create a valid post name. Drafts and pending posts are allowed to have an empty
1354	1358	// post name.
1355	1359	if (empty(\$post_name)) {
1356		if ('draft' != \$post_status)
	1360	if (!in_array(\$post_status, array('draft', 'pending')))
1357	1361	\$post_name = sanitize_title(\$post_title);
1358	1362	} else {

?annotate=blame&rev=28468

The Trac blame game:

1. ?annotate=blame
2. Preview the last relevant changeset
3. &rev=[changeset - 1]
4. Repeat

Finding the needle
in the haystack

```
$ git log
```

```
$ git log
```

did you know you can
contribute to WP using Git?

```
$ git clone git://develop.git.wordpress.org
```

```
$ git log
```

```
$ git log --grep
```

```
~/sites/wpdev [434]$ git log --grep wp_insert_post
commit 26236ce9100f866697384648e0177a7f868d4f8a
Author: boonebgorges <boonebgorges@602fd350-edb4-49c9-b593-d223f7449a>
Date: Wed Apr 20 13:53:32 2016 +0000
```

Add parameter documentation for 'post_category' to `wp_inse

Props Latz.

Fixes #36601.

git-svn-id: <https://develop.svn.wordpress.org/trunk@37255> 6

```
commit d183a297cfcb31b4a4e32e2093339625bf4b2323
Author: ericlewis <ericlewis@602fd350-edb4-49c9-b593-d223f7449a>
Date: Sun Dec 6 21:57:59 2015 +0000
```

Posts: Don't modify post_name if it wasn't supplied to `wp_

Previously when updating a post using wp_insert_post(), post_name was regenerated based on post_title every time if post_name was not explicitly supplied. This irons out the expectation that properties

```
$ git log --grep  
--author
```

```
~/sites/wpdev [435]$ git log --grep wp_insert_post --author boone
commit 26236ce9100f866697384648e0177a7f868d4f8a
Author: boonebgorges <boonebgorges@602fd350-edb4-49c9-b593-d223f74
Date: Wed Apr 20 13:53:32 2016 +0000

    Add parameter documentation for 'post_category' to `wp_insert_

    Props Latz.
    Fixes #36601.

    git-svn-id: https://develop.svn.wordpress.org/trunk@37255 602f

commit 621bb80fda2da6b9e9a7f2ec54a52c5df69d4f4d
Author: boonebgorges <boonebgorges@602fd350-edb4-49c9-b593-d223f74
Date: Wed Sep 16 19:24:51 2015 +0000

    Throw a notice when an invalid tax is passed to `wp_insert_pos

    Props jdgrimes.
    Fixes #25477.

    git-svn-id: https://develop.svn.wordpress.org/trunk@34248 602f

commit 68f620a7daea8d44213b2c0e7adaf69300c900c2
```

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```
    }  
  
    // Don't allow contributors to set the post slug for pending review posts.  
    if ( 'pending' == $post_status && !current_user_can( 'publish_posts' ) ) {  
        $post_name = '';  
    }  
  
    /*  
     * Create a valid post name. Drafts and pending posts are allowed to have
```

```
$ git log -S
```

“The Pickaxe”

```
~/sites/wpdev [428]$ git log -S publish_posts --pretty=short  
commit ef87985d745919eb0ab292fd43be9f503e3cd8a7  
Author: nacin <nacin@602fd350-edb4-49c9-b593-d223f7449a82>
```

Simplify the include graph after work to split out classes.

```
commit 23957b3974faf0accb13263e0c72353fd87c388d  
Author: wonderboymusic <wonderboymusic@602fd350-edb4-49c9-b593-d223f744>
```

XML-RPC: `wp.getComments` should be allowed to return approved comments.
`cap`.

```
commit e6a1bf194612abad962e3b3ab41eb9b8b379b4ce  
Author: wonderboymusic <wonderboymusic@602fd350-edb4-49c9-b593-d223f744>
```

Posts: move `WP_Post` into its own file. `post.php` loads the new file
`post.php` directly. New files created using `svn cp`.

```
commit 55f9ba0ee157d327f8e8dd77cb71cf239f3df2ad  
Author: wonderboymusic <wonderboymusic@602fd350-edb4-49c9-b593-d223f744>
```

Roles: move classes into their own file. `capabilities.php` loads the
loading `capabilities.php` directly. New files created using `svn cp`.

```
~/sites/wpdev [431]$ git show 23957b3974faf0accb13263e0c72353fd87c388d
commit 23957b3974faf0accb13263e0c72353fd87c388d
Author: wonderboymusic <wonderboymusic@602fd350-edb4-49c9-b593-d223f7449
Date: Sat Sep 26 02:48:47 2015 +0000
```

```
XML-RPC: `wp.getComments` should be allowed to return approved comments
with `comment` cap.
```

```
Adds (rewrites) unit tests from 4 years ago that we never committed
```

```
Props wonderboymusic, koke, ericmann, nprasath002.
```

```
Fixes #17981.
```

```
git-svn-id: https://develop.svn.wordpress.org/trunk@34570 602fd350-e
```

```
diff --git src/wp-includes/class-wp-xmlrpc-server.php src/wp-includes/class-wp-xmlrpc-server.php
index e7b8d64..3011b7a 100644
```

```
--- src/wp-includes/class-wp-xmlrpc-server.php
```

```
+++ src/wp-includes/class-wp-xmlrpc-server.php
```

```
@@ -3155,17 +3155,20 @@ class wp_xmlrpc_server extends IXR_Server {
         $password          = $args[2];
         $comment_id        = (int) $args[3];
```

```
$ git bisect
```



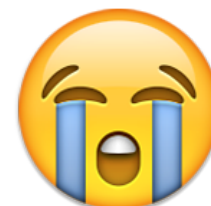
HEAD





4.4

HEAD



4.4

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HEAD



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4.4



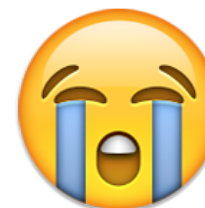
HEAD



4.4



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4.4

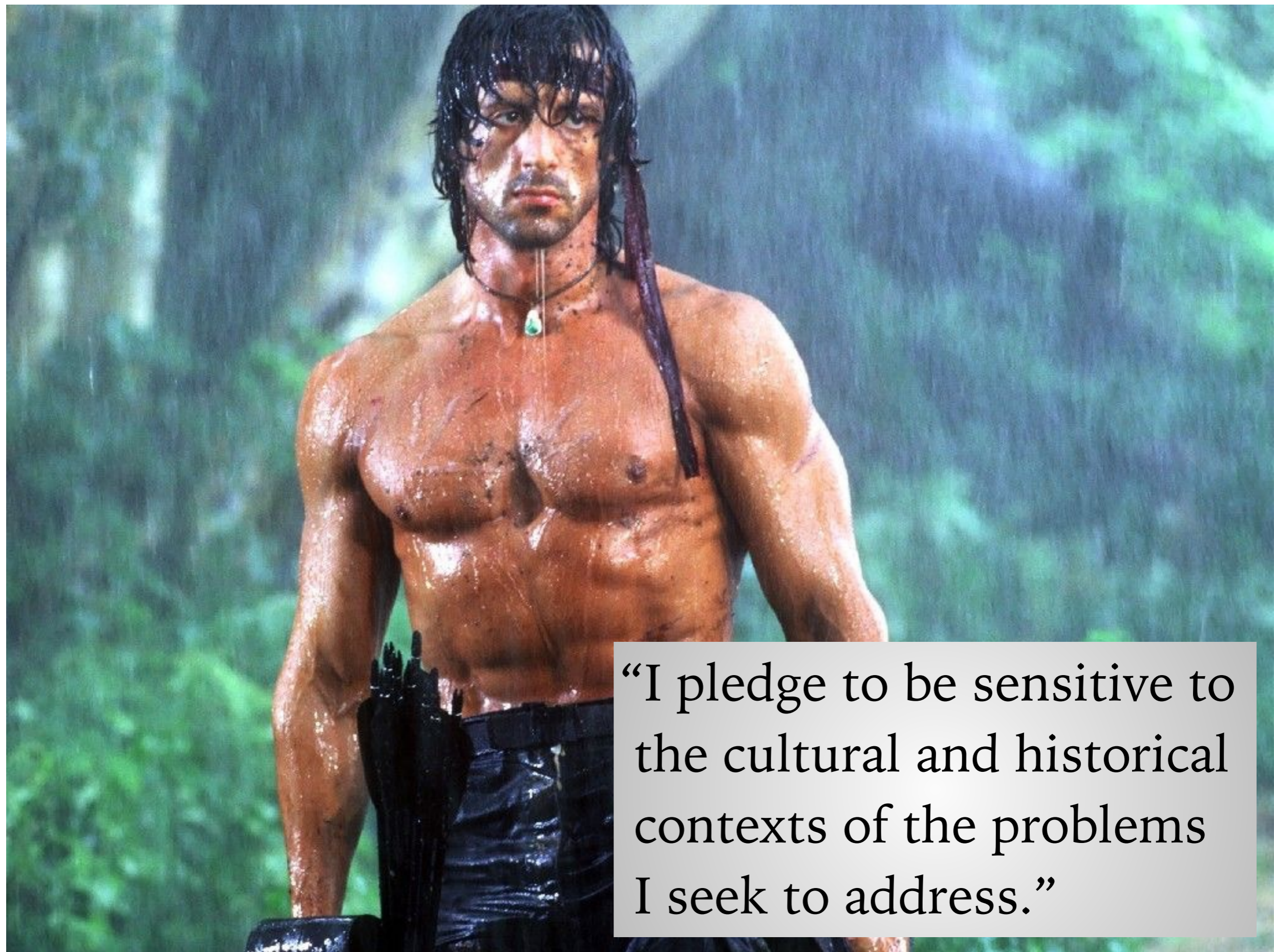


?



HEAD

```
~/sites/wpdev [449]$ git bisect start
~/sites/wpdev [450]$ git bisect bad
~/sites/wpdev [451]$ git bisect good origin/tags/4.4
Bisecting: a merge base must be tested
[365fe3b9498b5ab7a166fc88812b8ef562b364bc] Add initial_db_version t
~/sites/wpdev [452]$ git bisect good
Bisecting: 927 revisions left to test after this (roughly 10 steps)
[267e1a64357fe52b1fce4da714fd53333187b363] TinyMCE: - Fix the icon
the button on :focus.
~/sites/wpdev [453]$ git bisect bad
Bisecting: 463 revisions left to test after this (roughly 9 steps)
[5bd7a9993fbcb9a8b8b090952b46a0c76b1ca48b] Themes: Show template lo
~/sites/wpdev [454]$ git bisect good
Bisecting: 231 revisions left to test after this (roughly 8 steps)
[2b78d90bb529e8c8caf3d75f71c8361949d01677] Query: `is_*( $int )` sh
t".
```



“I pledge to be sensitive to the cultural and historical contexts of the problems I seek to address.”

Thanks