# Contributing to WordPress Core

Jonathan Desrosiers @Desrosi



### About Me

- Been using WordPress for 8+ years.
- Plugin developer, Theme developer, everything in between.
- Core contributor (credited in 4.4, 4.2, 4.1, 3.7, and 3.6)

### About Me

- Web Developer III at Boston University
- bu.edu/id

# BOSTON UNIVERSITY

## Congratulations!

You are taking initiative!

## Congratulations!

WordPress would not be what it is today without contributions from people like you.

## What took you so long?

- Too busy.
- Don't know how.
- I am not really an expert.
- I'm intimidated.

## Zip It

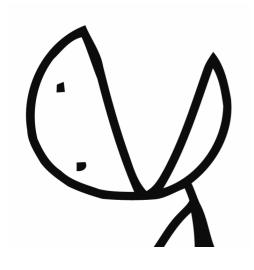


## What took you so long?

Every. Little. Thing. Counts.

# Everyone Starts Somewhere!

How did current leaders in the WordPress community start contributing to core?





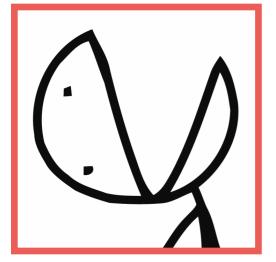






## John Blackbourn (Johnbillion) 4.1 Release Lead

runk/v	vp-adm	nin/link-add.php Tabular Unified
r4664	r4999	
29	29	<div class="wrap" id="wp-link-bookmarklet"></div>
30	30	<h3><?php _e('Add Link Bookmarklet'); ?></h3>
31		php _e('Right click on the following link and choose "Bookmark This Link" to create an add link shortcut. Right now this only works on Mozilla or Netscape, but we&#8217;re working on it.'); ?
		php _e('Right click on the following link and choose &#0147;Bookmark This Link&#0148; or &#0147;Add to Favorites&#0148; to create a Link This shortcut.'); ?
32		<pre><?php printf('<p><a href="%s" title="'('Link add bookmarklet').'">'('Link This').'</a>', "javascript:void(linkmanpopup=window.open('" . get_option('siteurl') . "/wp-admin/link-add.php? action=popup&amp;linkurl='+escape(location.href)+'&amp;name='+escape(document.title),'LinkManager','scrollbars=yes,width=750,hescape) ?&gt;</pre>
33	33	







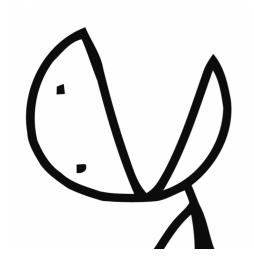




### Drew Jaynes (drewapicture)

### 4.2 Release Lead

```
Unmodified
            Added
                     Removed
                                                                                                                               Tabular Unified
trunk/wp-admin/includes/media.php
r19268 r19275
                      html = '<img alt="'+alt+'" src="'+f.src.value+'"'+title+cls+' width="'+t.width+'" height="'+t.height+'" />';
  1498
         1498
  1499
         1499
  1500
                       if ( f.url.value )
  1501
                           html = '<a href="'+f.url.value+'">'+html+'</a>';
                      if (f.url.value) {
         1500
         1501
                           url = f.url.value.replace(/'/g, ''').replace(/"/g, '"').replace(/</g, '&lt;').replace(/>/g, '&gt;');
                           html = '<a href="'+url+'">'+html+'</a>';
          1502
          1503
  1502
          1504
                      if ( caption )
  1503
          1505
```





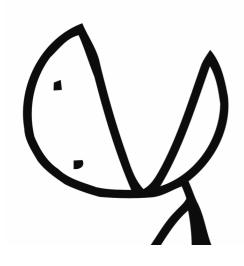






### Konstantin Obenland (Obenland)

### 4.3 Release Lead











### Scott Taylor (wonderboymusic)

4.4 Release Lead

```
trunk/wp-settings.php

r18532 r18549

30 30

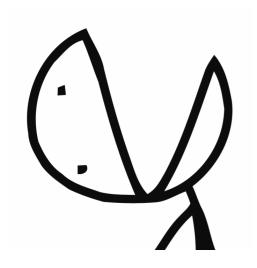
31 31 // Disable magic quotes at runtime. Magic quotes are added using wpdb later in wp-settings.php.

32 set_magic_quotes_runtime(0);

33 @ini_set('magic_quotes_sybase', 0);

34 34 34

35 35 // Set default timezone in PHP 5.
```



Unmodified

Added





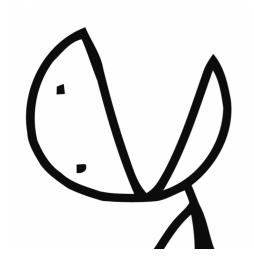




## Dominik Schilling (ocean90)

### 4.6 Release Lead

```
Unmodified
                    Removed
           Added
trunk/wp-admin/includes/dashboard.php
                                                                                                                             Tabular Unified
r13256 r13373
   650
          650
                  echo '<label for="comments-number">' . __('Number of comments to show:') . '</label>';
   651
          651
                  echo '<input id="comments-number" name="widget-recent-comments[items]" type="text" value="' . $number . '" size="3" />
   652
              <small>' . __( '(at most 15)' ) . '';
                  echo '<input id="comments-number" name="widget-recent-comments[items]" type="text" value="' . $number . '" size="3" />
              <small>' . __( '(at most 15)' ) . '</small>';
          654
   654
```











### Jonathan Desrosiers (Desrosj)

### Future Release Lead?

```
Unmodified
            Added
                      Removed
trunk/wp-admin/css/wp-admin.css
                                                                                                                                     Tabular Unified
 r24578 r24588
  3979
          3979 }
  3980
          3980
          3981
                .form-wrap .form-field #parent {
          3982
                   max-width: 100%;
          3983
          3984
          3985 .col-wrap h3 {
  3981
                   margin: 12px 0;
  3982
          3986
```



# Everyone Starts Somewhere

Little changes add up to make WordPress great!

### What we'll cover Today

- Discuss the many ways to contribute to WordPress.
- Talk about how the WordPress Core development process works.
- Discover the tools you will need to become familiar with.
- Dive in and get our hands dirty with a little code.
- Make WordPress contributions!

### Make Wordpress -Contributor Groups

Make WordPress
 (make.wordpress.org)
 is a set of blogs that
 relate to the different
 contributor groups that
 help develop
 WordPress.

#### Make WordPress

Whether you're a budding developer, a pixel-perfect designer, or just like helping out, we're always looking for people to help make WordPress even better.

If you want to get involved in WordPress, this is the place to be. We've got blogs for each contributor group, general news, and upcoming events.



#### There are many different ways for you to get involved with WordPress:

#### Core

The core team makes WordPress. Whether you're a seasoned PHP developer or are just learning to code, we'd love to have you on board. You can write code, fix bugs, debate decisions, and help with development. Learn more about Core »

The makile team builds the IOO Andreid Mindern and

Weekly chats: Wednesdays @ 20:00 UTC #core on Slack

#### Design

The design group is focused on the designing and developing the user interface. It's a home for designers and UXers alike. There are regular discussions about mockups, design, and user testing. Learn more about Design »

Weekly chats: Thursdays @ 17:00 UTC #design on Slack

#### Mobile

#### **★** Accessibility

## Community Team

If you're interested in organizing a meetup or a WordCamp, the community blog is a great place to get started. There are groups working to support events, to create outreach and training programs, and generally support the community.

### Support Team

The Support Team is responsible for all things support related.

- Answer support questions in the forums on WordPress.org
- Answer questions in <u>WordPress.org</u> Slack

Everyone knows the answer to something!

### Documentation Team

The Documentation Team is responsible for all things documentation, including the Codex, handbooks, developer.wordpress.org, admin help, inline docs, and other general wordsmithing across the WordPress project.

- Update and edit the Codex
- Helping out with the handbooks
- Updating WordPress' inline documentation
- Helping to build <u>developer.wordpress.org</u>

## Training Team

The Training Team creates downloadable lesson plans and related materials for instructors to use in a live workshop environment.

- Writing Create lesson plans.
- Copyediting Check lesson plans for grammar, spelling and punctuation. Make sure they align with our style guide.
- Testing Run tests of our beta lessons at Meetups or workshops and give us feedback.
- Auditing Check content for accuracy with the current version of WordPress

### TV Team

The TV team reviews and approves every video submitted to WordPress.tv. They also help WordCamps with video post-production and are responsible for the captioning and subtitling of published videos.

- Post-production
- Subtitles/captions

## Polyglot Team

WordPress is used all over the world and in many different languages. If you're a polyglot, help out by translating WordPress into your own language.

Suggest text translations at <u>translate.wordpress.org</u>

### Theme Review Team

The Theme Review Team reviews and approves every Theme submitted to the WordPress Theme repository. Reviewing Themes sharpens your own Theme development skills.

### Accessibility Team

The a11y team provides accessibility expertise across the project. They make sure that WordPress core and all of WordPress' resources are accessible.

### Themes & Plugins

Create your own WordPress Themes & Plugins, and submit/release them in the <u>WordPress.org</u> repositories.

# Make WordPress - Contributor Groups

See? There are a ton of ways to get involved, even if you have little or no knowledge of code!

Let's learn about how WordPress core is developed and maintained.



### WordPress Release Cycle

- WordPress version releases (X.X) run on 4 month release cycles (3 releases per year).
- Minor bug fix and security releases (X.X.X) happen whenever necessary in between version releases.
- Deadlines are not arbitrary, even if they force things to be trimmed.

## WordPress Release Cycle - Philosophies

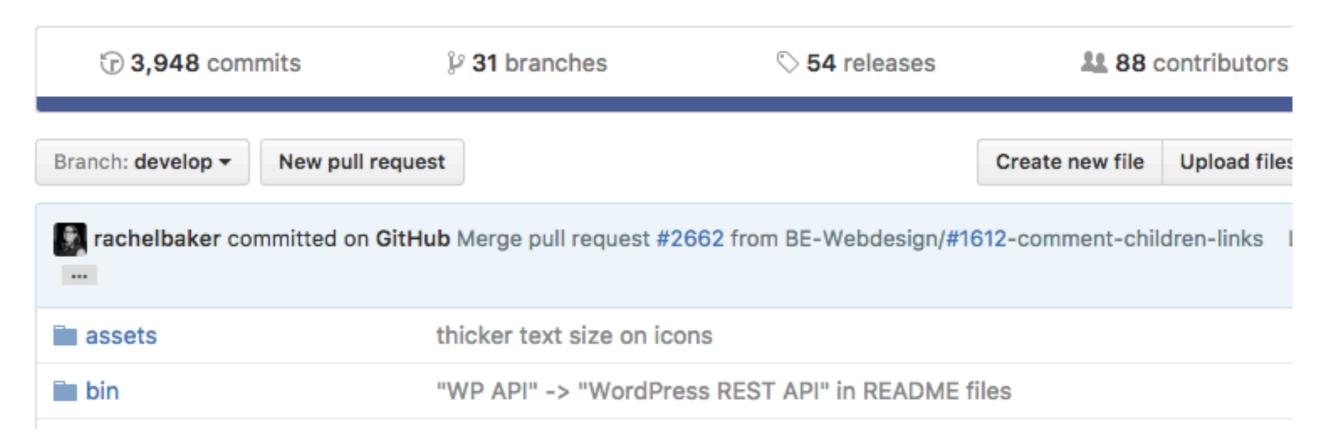
- We're never done with simplicity. We want to make WordPress easier to use with every single release.
- The core of WordPress will always provide a solid array of basic features. It's designed to be lean and fast and will always stay that way.
  - Core should provide features that 80% or more of end users will actually appreciate and use.
- Decisions, not Options

# WordPress Release Cycle - Feature Plugins

- New features are no longer developed directly in core.
- Features are now developed as focused plugins.
- When the plugin is deemed "ready" it is submitted via a proposal to the core team for review.
- When approved by core committers, the code is revised to fit into WordPress core and committed.



#### WP REST API - a JSON-based REST API for WordPress. http://v2.wp-api.org



### Make WordPress Core

Handbook Ticke Blog

Hide threads | Keyboard Shortcuts

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Ryan McCue 9:03 pm on September 20, 2015 Tags: merge (9), json-api (25), feature plugins (41), proposal (12)

### WP REST API: Merge Proposal

Hello everyone! This is the post you've all been waiting for. •

We on the REST API team (myself, @rachelbaker, @joehoyle, @danielbachhuber, and newest member and core committer @pento) would like to propose merging the REST API into WordPress core. We've been working a while on this, and think it's now ready to get your feedback.

This is our first iteration of the proposal, and we're actively looking for feedback. If you have thoughts on the project, or on this proposal, let us know! Only with your feedback can we make progress.  $\odot$ 

#### What is the REST API?

### WordPress Release Cycle - Feature Plugins

- Started in June 2013 as a Google Summer of Code project.
- 3,948 commits and counting.
- 88 different code contributors.

### Tools



All WordPress development related conversation happens in Slack.

- Really great for tapping into the "heart beat" of the development process.
- Meetings happen here.
- General discussion about tasks.

#### Tools



Let's check it out!

#### Tools - Trac



The most important WordPress Core development tool.

Trac is the ticketing system that organizes all ongoing development in WordPress.

#### Tools - Trac



Let's check it out!

#### Tools - Local Machine

The following are tools you will need locally in order to contribute code to WordPress Core:

- Your favorite code editor.
- A local development environment (MAMP, XAMP, Vagrants, etc.)
- A working copy of the WordPress repository trunk branch
- A subversion client such as TortoiseSVN on PC or Cornerstone/Versions on Mac (if you are not comfortable with command line)

Let's discuss what development stack we are going to set up today.

https://make.wordpress.org/flow/2016/02/08/testing-patches-with-vvv-on-mac-os/

# Setting up our local development environment virtualbox.org



Allows an unmodified operating system with all of its installed software to run in a special environment, on top of your existing operating system. This environment, called a "virtual machine", is created by the virtualization software by intercepting access to certain hardware components and certain features.

#### vagrantup.com

Vagrant is a tool for building complete development environments. With an easy-touse workflow and focus on automation, Vagrant lowers development environment setup time, increases development/ production parity, and makes the "works on my machine" excuse a relic of the past.



github.com/Varying-Vagrant-Vagrants/VVV

The primary goal of Varying Vagrant Vagrants (VVV) is to provide an approachable development environment with a server configuration common for high traffic WordPress sites.

VVV is ideal for developing themes and plugins as well as for contributing to WordPress core.



VirtualBox virtualbox.org



vagrantup.com



putty.org (Windows users)

1. Ensure Vagrant installed successfully.

```
Jonathans-MacBook-Pro:vvv Dayman$ vagrant -v
Vagrant 1.7.4
Jonathans-MacBook-Pro:vvv Dayman$ ■
```

2. Install the vagrant-hostsupdater plugin

Jonathans-MacBook-Pro:~ Dayman\$ vagrant plugin install vagrant-hostsupdater

3. Install the vagrant-triggers plugin

Jonathans-MacBook-Pro:~ Dayman\$ vagrant plugin install vagrant-triggers

- 4. Change directory to where you want the vagrant folder to reside.
- 5. Clone the VVV repo.

Jonathans-MacBook-Pro:~ Dayman\$ git clone git://github.com/Varying-Vagrant-Vagrants/VVV.git vagrant-local

6. Change directory to vagrant-local

Jonathans-MacBook-Pro:vvv Dayman\$ cd vagrant-local

7. Start the vagrant

Jonathans-MacBook-Pro:vagrant-local Dayman\$ vagrant up

#### 8. Test it!

- http://local.wordpress.dev/ for WordPress stable
- http://local.wordpress-trunk.dev/ for WordPress trunk
- http://src.wordpress-develop.dev/ for trunk WordPress development files
- http://build.wordpress-develop.dev/ for the version of those development files built with Grunt
- http://vvv.dev/ for a default dashboard containing several useful tools

#### Next Steps

```
cd ~/Sandbox/vagrant-local/
vagrant up
vagrant ssh
cd /srv/www/wordpress-develop/
```

Jonathans-MacBook-Pro-2:vvv Dayman\$ sudo npm install

### Types of Core Contribution we will cover

- 1. Testing Patches
- 2. Creating Patches

### Testing Patches

- 1. Read the ticket and all interaction referencing it thoroughly
  - Gain full understanding of what the ticket is trying to accomplish.
- 2. Look at when the patch was last created/refreshed.
  - Patches older than 3-4 months may need to be refreshed.
- 3. Review the patch.
  - Understand what is being changed so you know what to look for.

### Testing Patches

Provide feedback on the ticket.

- Does the patch apply correctly?
- Is the ticket solved with the given patch?
- Are there any bugs or edge cases that you can discover?
- Can you think of any negative effects as a result of the patch?
- Is this the best approach to solving the problem?

### Testing Patches

```
cd ~/Sandbox/vagrant-local/
vagrant up
vagrant ssh
cd /srv/www/wordpress-develop/
grunt watch &
svn up
```

### Creating Patches

- Is the ticket still valid? Old tickets can become
- Is there a clear direction of what needs to be done?
- Is there any discussion about how to approach the ticket? Sometimes there is an agreed upon solution without a patch.