Give back to WordPress

A journey into Trac ticket submission...

What are we all doing here?

- •What and how of contributing to WordPress
- •Contributing code
- •Officialish, easier (?) way to setup and get going
- Patching WordPress Core

What are we not doing here?

Getting into the weedsUnit testingUsing SVN

Overview:

Discover: Find or solve and issue

- •Ticket: Propose a WordPress Core change
- •Patch: Demonstrate the proposed change
- Discuss: Clarify and iterate over proposal
- Commit: Fingers crossed...

What's needed to contribute?

- WordPress.org account
- Trac
- VirtualBox (or other Virtual Machine Manager)
- .Vagrant
- Vagrant Hosts Updater PluginGit (or SVN)
- Local WordPress setup

What to contribute:

My first WordPress Core Contribution...

Installing Plugin from uploaded file:

Unpacking the package..

Installing the plugin...

Plugin installed successfully

Activate Plugin Return to Plugin Installer

Find something you'd like changed, a new feature, or a bug...

Animated gifs

Password links

•good-first-bugs

Our Ticket:

Miss aligned button:



A bit contrived? Totes!

Trac:

WordPress' task and bug report manager:

https://core.trac.wordpress.org/

Use the WikiFormatting
Be as detailed as possible
Upload images/files

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Local Setup: VirtualBox

Download/install:

<u>https://www.virtualbox.org/wiki/Download</u> <u>s</u>

It extends the capabilities of your existing computer so that it can run multiple OSes, inside multiple virtual machines, at the same time.

```
VirtualBox
                          Download VirtualBox
                         Here you will find links to VirtualBox binaries and its source code
                         VirtualBox hinaries
Downloads
                         By downloading, you agree to the terms and conditions of the respective license
Documentatio
                        If you're looking for the latest VirtualRox 6.0 packages, see VirtualRox 6.0 builds. Please also use version 6.0 if you need to run VMs with software virtualization, as this has been discontinued in 6.1. Version 6.0 will ren
                         supported until July 2020
   End-user doc
    Technical docs
                         If you're looking for the latest VirtualBox 5.2 packages, see VirtualBox 5.2 builds. Please also use version 5.2 If you still need support for 32-bit hosts, as this has been discontinued in 6.0. Version 5.2 will remain supporte
Contribute
                         VirtualBox 6.1.6 platform packages
Community

        ⊕ Windows hosts

            ⊕ OS X hosts

    Linux distribution
    G→ Solaris hosts

                         The binaries are released under the terms of the GPL version 2
                          See the changelog for what has changed
                         You might want to compare the checksums to verify the integrity of downloaded packages. The SHA256 checksums should be favored as the MD5 algorithm must be treated as inse

    SHA256 checksums, MD5 checksums

                         Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well
                        VirtualBox 6.1.6 Oracle VM VirtualBox Extension Pack
                            Support for LISB 2.0 and LISB 3.0 devices. VirtualBox BDP, disk encryption, NVMe and PXE boot for Intel cards. See this chapter from the Liser Manual for an introduction to this Extension Pack. The Extension Pack binaries and
                                                                                                                                          ion pack as your installed version of Virtu
                        VirtualBox 6 1 6 Software Developer Kit (SDK)
                           User Manua
                         The VirtualRox User Manual is included in the VirtualRox packages above. If, however, you would like to take a look at it without having to install the whole thing, you also access it here
                             You may also like to take a look at our frequently asked questions list
                          VirtualBox older builds
                         The binaries in this section for VirtualBox before version 4.0 are all released under the VirtualBox Personal Use and Evaluation License and the other packages are released under the terms of the GPL version 2. By downloading, you agree to th

    VirtualBox older builds

                         VirtualBox Sources
                         The VirtualBox sources are available free of charge under the terms and conditions of the GNU General Public License, Version 2, By downloading from the below links, you agree to these terms and o
                            • 
    Source code
                               This is the current development code, which is not necessarily stable.

    View the latest source code changes

    Download the VirtualBox OSE about logo in higher resolutions: 1024x768, 1600x1200

                              Checking out from our Subversion serve
                                    svn co https://www.virtualbox.org/svn/vbox/trunk vbox
                                 is is the current development code, which is not necessarily stable
                         After getting the sources in one of the ways listed above, you should have a look at the build instruction
                          Please also take a look at our licensing FAQ, in particular regarding the use of the name VirtualBox
                         Pre-built VirtualBox VMs
                         There are some pre-built VMs designed for developers and the curious over on the O Oracle Tech Network site
                                                                                                                      ORACLE
                                                                                                          Contact - Privacy policy - Terms of Use
```

Local Setup: Vagrant

Download/install:

https://www.vagrantup.com/downloads.htm

Vagrant is a "tool for building and distributing development environments".



Local Setup: Hosts Updater

Install Vagrant Hosts Updater Plugin:

sergio@EcoTechie [~/Web/local/vagrant] ± master ✓
> vagrant plugin install vagrant-hostsupdater
Installing the 'vagrant-hostsupdater' plugin. This can take a few minutes...
Installed the plugin 'vagrant-hostsupdater (1.1.1.160)'!

The vagrant-hostsupdater plugin will modify your hosts file so that provisioned domains such as https://vvv.test work.

Local Setup: Git

Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

It comes installed in most Linux and macOS versions. If not (or running Windows), umm, time to search the web.

Local Setup: VVV

Varying Vagrant Vagrants is an open source Vagrant configuration focused on WordPress development.



Local Setup: VVV

In your code editor of choice, and from the vagrant directory, open config/config.yml, enable the wordpress-trunk site AND git. Make sure it looks like this...

4
3 # The wordpress-develop configuration is useful for contributing to WordPress Core.
2 # It uses the built WP to serve the site
1 wordpress-trunk:
59 skip_provisioning: false # provisioning this one takes longer, so it's disabled by default
1 description: "An svn based WP Core trunk dev setup, useful for contributor days, Trac tickets, patches"
2 repo: https://github.com/Varying-Vagrant-Vagrants/custom-site-template-develop.git
3 custom:
4 vcs: git
5 hosts:
6 - trunk.wordpress.test
7

Local Setup: VVV

Run vagrant up --provision to get started using our new Virtual Machine and fix this pesky button...



Welcome to the machine:

Navigate to <u>www.test</u>

₩ VVV v3.3.0		
VVV is a local web development environment powered by Vagrant and Virtual Machines.		
Bundled Environments VVV reads a config file to discover and provision sites named in config/config.yml. I To add, remove, or change sites, modify config/config.yml then reprovision using vaga	f it doesn't exist, it falls back to config/default-config.yml. rant reloadprovision to apply the changes	Search the Documentation search query Search
<pre>wordpress-one A standard WP install, useful for building plugins, testing things, etc URL: http://one.wordpress.test VN Folder: /srv/www/wordpress-one Using: php72</pre>	wordpress-two A standard WP install, useful for building plugins, testing things, etc URL: http://two.wordpress.test VM Folder: /srv/www/wordpress-two Using: php72	Find out more about VVV You're running VVV (3.3.0, if there are updates available you can ru git pull and reprovision to apply them Help & Documentation View the code on GitHub
wordpress-trunk An svn based WP Core trunk dev setup, useful for contributor days, Trac tickets, patches URL: http://trunk.wordpress.test		Tools phpMyAdmin MailHog PHP Info PHP Status
VM Folder: //stv/www/wordpress-trunk Using: php72		Contribute to WordPress Whether you're at a contributor day, or just feel like giving back,
Adding a New Site Modify vvv-custom.yml under the sites section to add a site, here's an example:		can add the WordPress.org Meta environment. This will give you everything from WordCamp to buddypress.org test sites Find out more

Terminal Power!

VVV has powerful commands preinstalled, if you need WP CLI or PHP Codesniffer, run vagrant ssh to enter the virtual machine, and get a full command line experience



Login to <u>trunk.wordpress.test</u> using admin and password as credentials.

Now we can develop to our heart's content...

Check and fix:

Using the browser's dev tools, let's find a solution...

If you have a	plugin in a	.zip format, you r	nay insta	ll it by upl	oadin	g it h	ere.						
	input#pluginzij	p 271.117 × 32.6667 Fl	ex Item										
	Browse	No file selected.		Install Now									
Storage 1 Netv	vork 🔺 Acces	sibility <> DOM	What's Nev	v 🛕 axe									 ••• ×
				-	+ 🖋	•	Rules	Layout	Computed	Changes	Fonts	Animations	
						C C (Copy All Cl	hanges					
						them	es.css						
<u>:/wp-admin/plugin-install.php?tab=upload</u> " role="button" aria-expanded="true">						.upload-theme .wp-upload-form > input[type="file"], .upload-plugin .wp-upload- form > input[type="file"] {							
						- padding: 5px 1em 0 0;							
						}							
						.upload-theme .wp-upload-form, .upload-plugin .wp-upload-form {							
								antant.	annes hetuse				
on-"http://typele	uardarass test	/up admin /update_aha	2. stion-unl	and plugints	flow	+ ju	ustify-c	ontent:	space-betwee	n;			

Edit and build:

We update the /wp-admin/css/themes.css file...

```
sergio@EcoTechie [~/Web/local/vagrant/www/wordpress-trunk/public_html/src] ± master U:1 🌶
> git diff
diff --git a/src/wp-admin/css/themes.css b/src/wp-admin/css/themes.css
index fed12dcf89..b3ffcdcb51 100644
--- a/src/wp-admin/css/themes.css
+++ b/src/wp-admin/css/themes.css
a@ -896,7 +896,7 @@ body.folded .theme-browser ~ .theme-overlay .theme-wrap {
        .theme-browser .theme:nth-child(3n) {
               margin-right: 0;
        .theme-overlay .theme-about {
               bottom: 105px;
a@ -1059,11 +1059,7 @@ body.folded .theme-browser ~ .theme-overlay .theme-wrap {
       margin: 30px auto;
       max-width: 380px;
       display: flex;
        justify-content: space-between;
```

Edit and build:

Then run grunt build.



Grunt build, what?

The trunk branch has src and build directories.

.src is where we edit the code.

•build is where the processed files are.

Grunt runs tasks on the src directory:
Autoprefixing
SASS to CSS
Unit Tests



Since we are only editing CSS, this will be easier than if working with JavaScript or PHP. No need to build Unit Tests or have a more complex setup.

Trust but verify...

Test the changes on the site. Since we ran grunt build, our changes will be updated on the build directory. Which is what serves <u>trunk.wordpress.test</u>

What's the diff?

After we are happy with the changes, we need to create a .diff file to upload to Trac.

git diff > 49914.diff

```
rgio@EcoTechie [~/Web/local/vagrant/www/wordpress-trunk/public html/src]        <u>+ master</u>
 git diff > 49914.diff
sergio@EcoTechie [~/Web/local/vagrant/www/wordpress-trunk/public_html/src] ± master U:1
 cat 49914.diff
diff --git a/src/wp-admin/css/themes.css b/src/wp-admin/css/themes.css
index fed12dcf89..b3ffcdcb51 100644
--- a/src/wp-admin/css/themes.css
+++ b/src/wp-admin/css/themes.css
@@ -896,7 +896,7 @@ body.folded .theme-browser ~ .theme-overlay .theme-wrap {
         .theme-browser .theme:nth-child(3n) {
                 margin-right: 0;
         .theme-overlay .theme-about {
                 bottom: 105px;
00 -1059,11 +1059,7 00 body.folded .theme-browser ~ .theme-overlay .theme-wrap {
        margin: 30px auto;
        max-width: 380px:
        display: flex;
.upload-theme .wp-upload-form > input[type="file"],
.upload-plugin .wp-upload-form > input[type="file"] {
        padding: 5px 1em 0 0;
         justify-content: space-between;
 .upload-theme .install-help.
```

Patch this Trac that

All that's left is uploading the 49914.diff file to Trac, add some images and comments if needed and wait for feedback.

@seedsca 91 seconds ago
• Attachment <u>49914.dlff</u> 😨 added
Looks like editing /wp-admin/css/themes.css to add justify-content: space-between; and removing some padding did the trick.
@seedsca 66 seconds ago
• Attachment <i>chrome -after.png</i> 😨 added
input#pluginzip 268×30
Choose File No file chosen Install Now
@seedsca 52 seconds ago
• Attachment edge - after.png 😨 added
Browse Install Now
@seedsca 39 seconds ago
• Attachment <i>firefox - after.png</i> 😨 added
input#pluginzip 291.333 × 32.6667 Flex Item

Thanks and happy contributing! Sergio Scabuzzo @ecotechie EcoTechie.io