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 weeds
- Unit testing
- Using SVN

Overview:

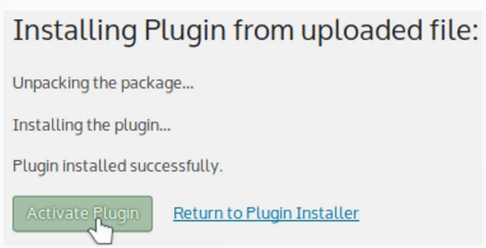
- Discover: Find or solve and issue
- Ticket: Propose a WordPress Core change
- Patch: Demonstrate the proposed change
- Discuss: Clarify and iterate over proposal
- Commit: Fingers crossed...

What’s needed to contribute?

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

What to contribute:

My first WordPress Core Contribution...

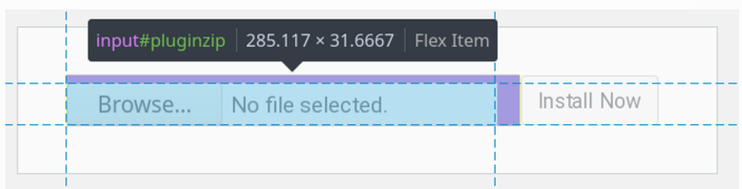


Find something you'd like changed, a new feature, or a bug...

- Animated gifs
- Password links
- good-first-bugs

Our Ticket:

Miss aligned button:



A bit contrived?

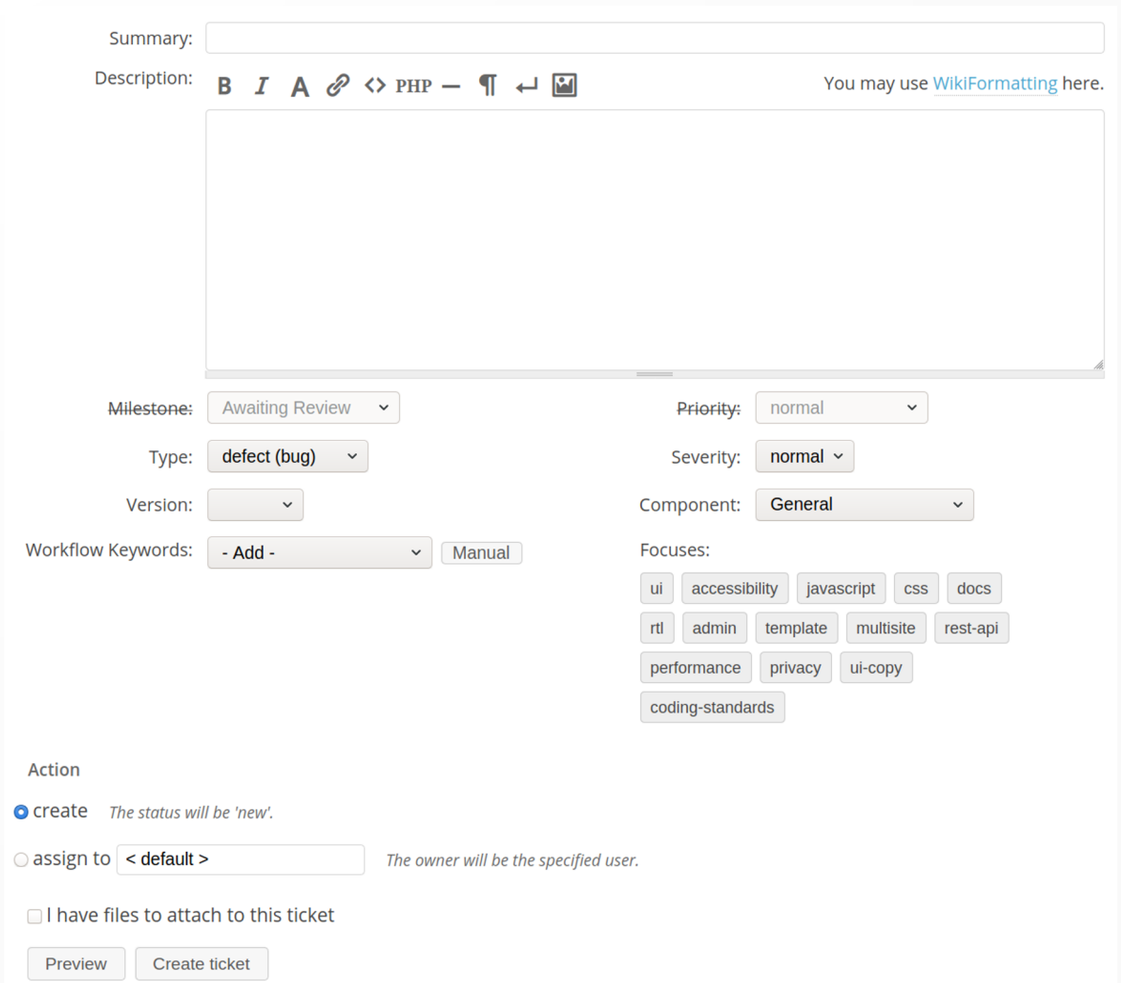
Totes!

Trac:

WordPress' task and bug report manager:

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

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

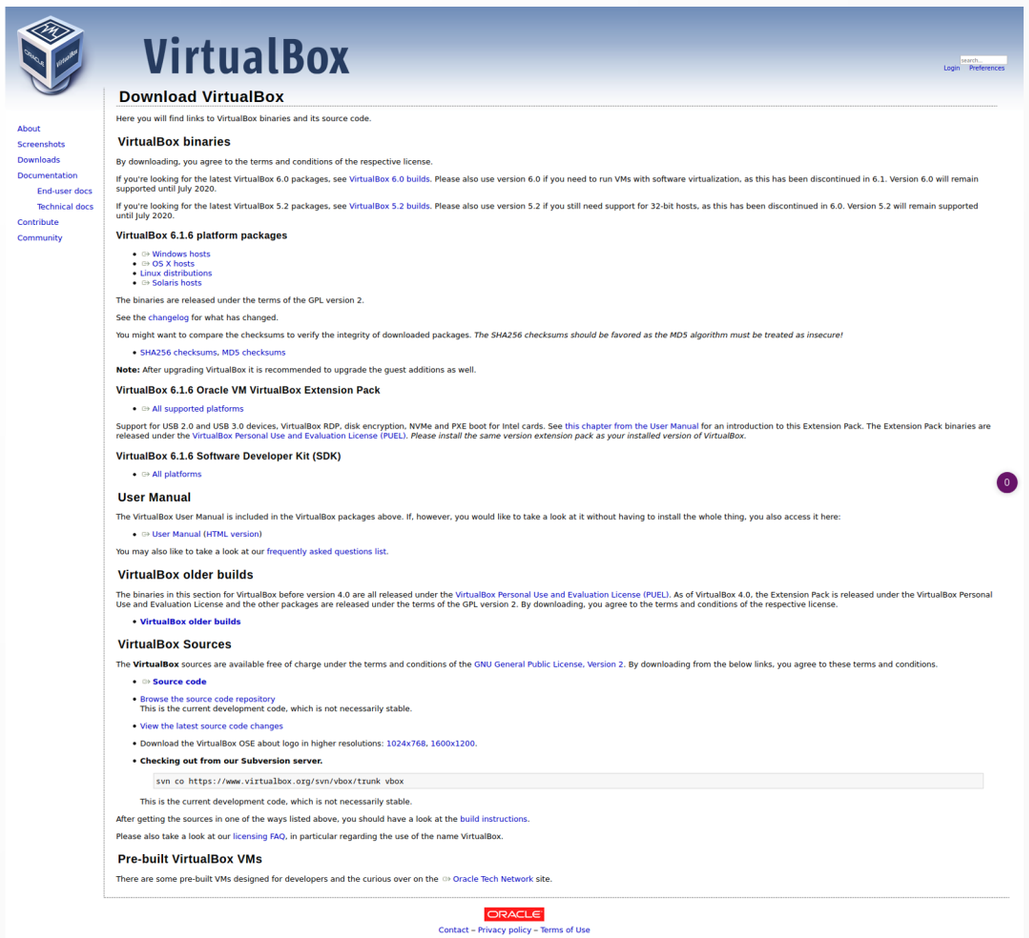


Local Setup: VirtualBox

Download/install:

https://www.virtualbox.org/wiki/Downloads

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



VirtualBox

Login Preferences

About
Screenshots
Downloads
Documentation
End-user docs
Technical docs
Contribute
Community

Download VirtualBox

Here you will find links to VirtualBox binaries and its source code.

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 6.0 packages, see VirtualBox 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 remain supported until July 2020.

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 supported until July 2020.

VirtualBox 6.1.6 platform packages

- Windows hosts
- OS X hosts
- Linux distributions
- 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 insecure!*

- 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

- All supported platforms

Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See this chapter from the User Manual for an introduction to this Extension Pack. The Extension Pack binaries are released under the VirtualBox Personal Use and Evaluation License (PUEL). *Please install the same version extension pack as your installed version of VirtualBox.*

VirtualBox 6.1.6 Software Developer Kit (SDK)

- All platforms

User Manual

The VirtualBox User Manual is included in the VirtualBox 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:

- User Manual (HTML version)

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 (PUEL). As of VirtualBox 4.0, the Extension Pack is 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 the terms and conditions of the respective license.

- **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 conditions.

- **Source code**
- Browse the source code repository
  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 server.**

```
svn co https://www.virtualbox.org/svn/vbox/trunk vbox
```

This 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 instructions.

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 Oracle Tech Network site.

ORACLE

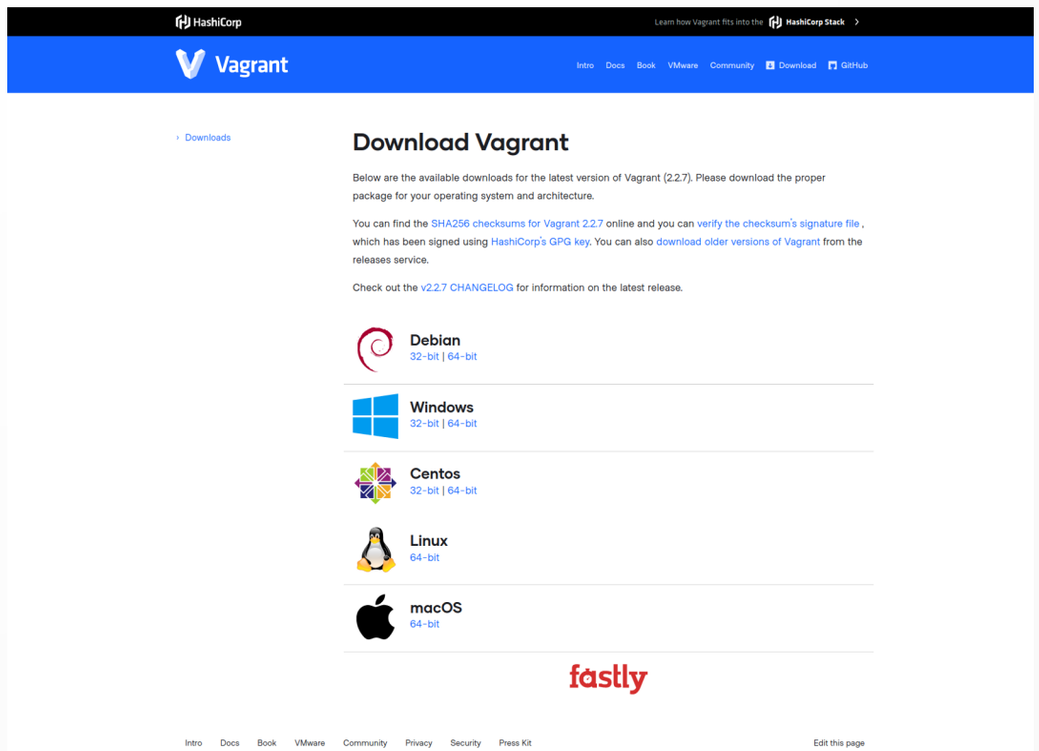
Contact – Privacy policy – Terms of Use

Local Setup: Vagrant

Download/install:

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

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...

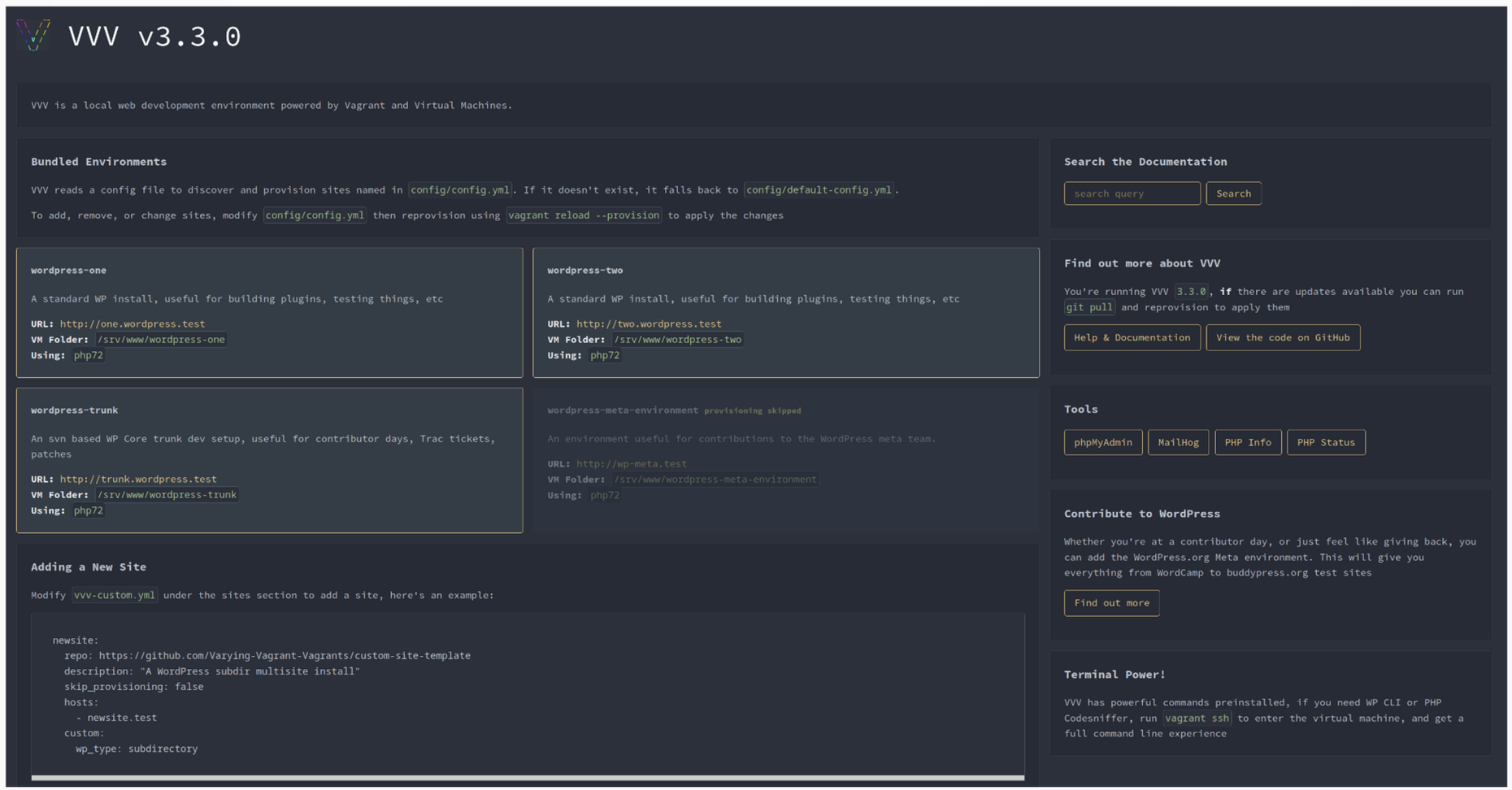
```
4
3   # The wordpress-develop configuration is useful for contributing to WordPress Core.
2   # It uses the built WP to serve the site
1   wordpress-trunk:
59      skip_provisioning: false # provisioning this one takes longer, so it's disabled by default
1       description: "An svn based WP Core 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 www.test



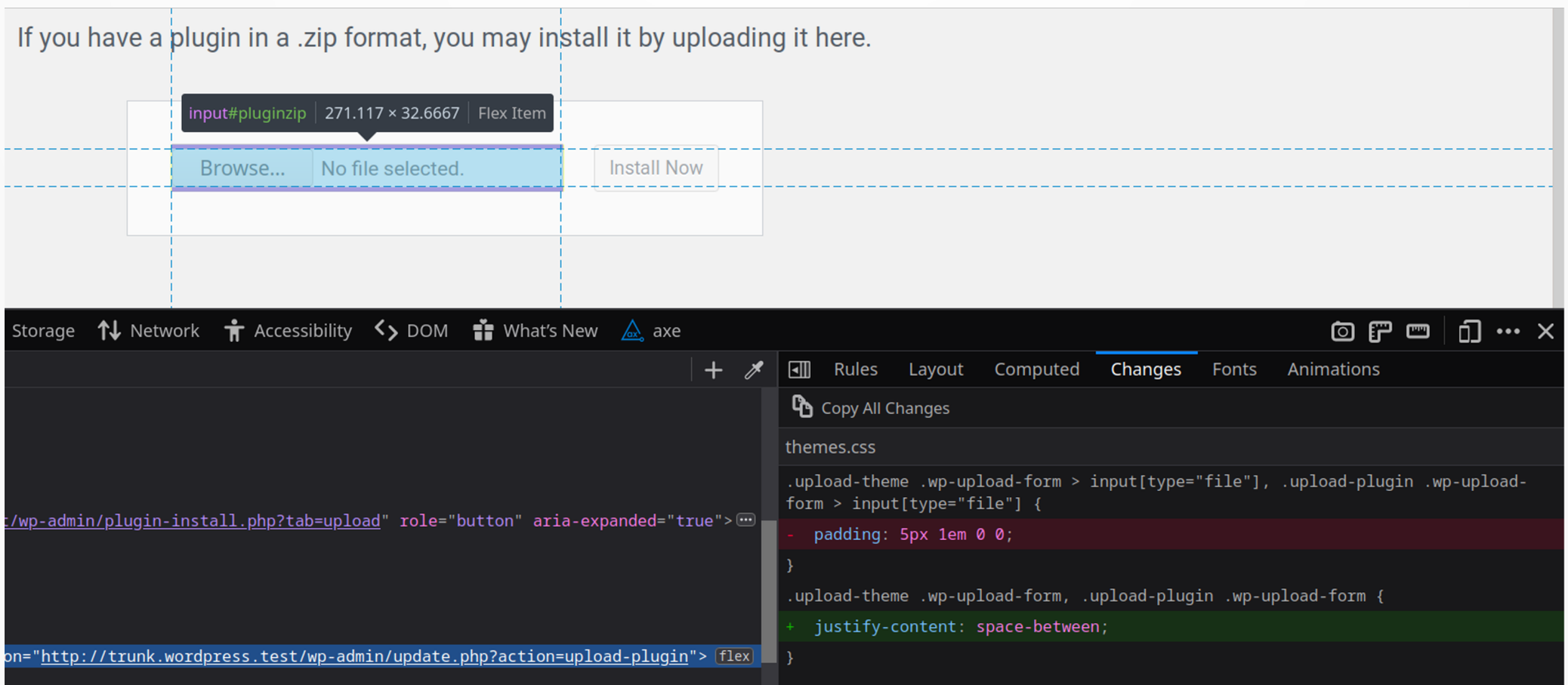
Let’s do this:

Login to trunk.wordpress.test 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...



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
@@ -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;
        }
@@ -1059,11 +1059,7 @@ 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;
 }
```

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

Too easy?

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 trunk.wordpress.test

What’s the diff?

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

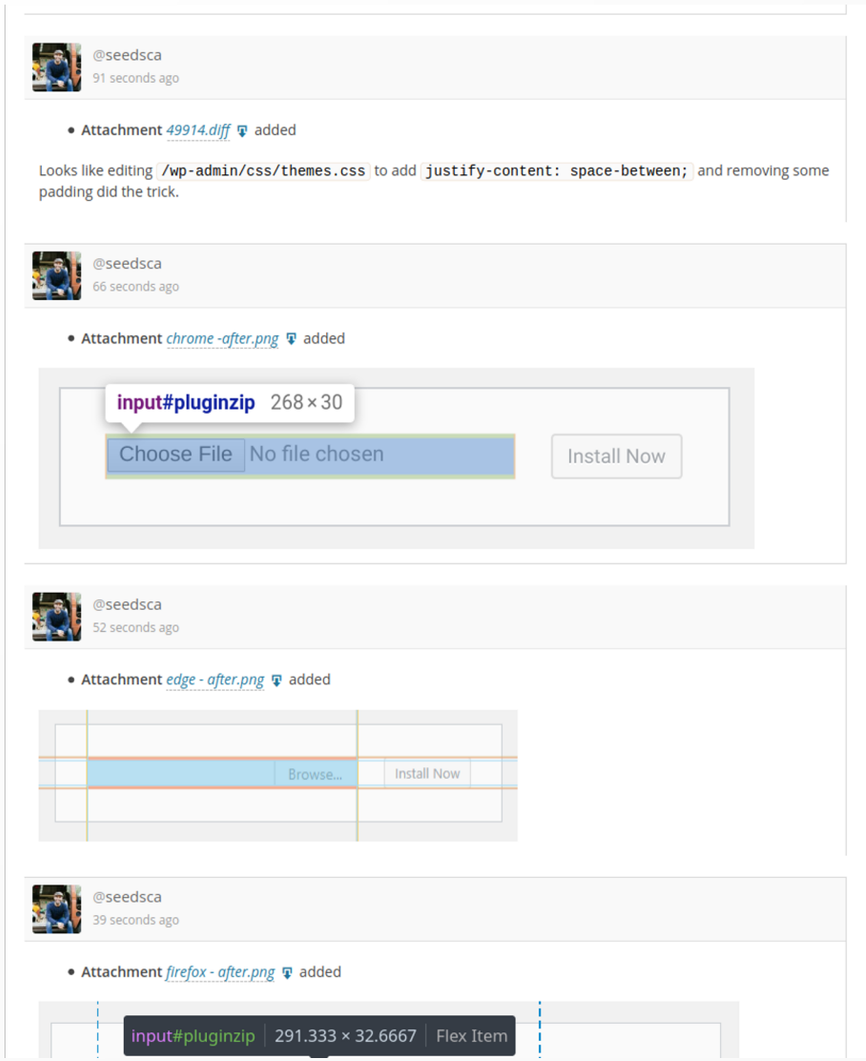
git diff > 49914.diff

```
sergio@EcoTechie [~/Web/local/vagrant/www/wordpress-trunk/public_html/src] ± master U:1
> 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;
        }
@@ -1059,11 +1059,7 @@ 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.



Thanks and

happy contributing!

Sergio Scabuzzo

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