Grown up from Vim user to Vim plugin developer side

IK : 2019-11-3 : VimConf2019
Designed by @taken_0114 and @get_me_power
Outline
1. Start using Vim
   Nov.2017

2. Start using Vim plugin
   May.2018

3. Attend VimConf2018
   Nov.2018

4. Study Vim script
   April.2019

5. First send Pull Request
   May.2019

6. Join vim-jp
   Jun.2019
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Name: Kazuma Inagaki

Job: undergraduate

College of Information science and Engineering

Language: Ruby, Python, and Ruby on Rails
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I have been writing only Vim script recently
Boy meets Vim

• Start studying programming

• C language

• Choose Visual Studio Code first
But
A mentor in that school tempted me to start Vim
Start using Vim
It was difficult for me to use Vim
Difficult points

Mode

key bind

install Plugin

choosing Plugin
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Starting Install Vim Plugins

- A boy gets to know about Vim plugins and meets dein.vim
- Start installing many plugins
- Get plugin power
Installed 39 plugins for (Neo)vim!

dein.vim
defx.nvim
denite.nvim
deoplete.nvim
async.vim
calender.vim
gina.vim
lexima.vim
neoinclude.vim
open-browser.vim
open-browser-github.vim
vital.vim
defx-icons
deoplete-clangx
deoplete-vim-lsp
deoplete-tabnine
deoplete-jedi
vim-airline
vim-airline-theme
vim-devicons
vimdoc-ja
vim-endwise
vim-fugitive
vim-lsp
vim-gotham
vim-markdown
vim-quickrun
vim-surround
vim-speeddating
vim-starwars
vim-sl
emmet-vim
webapi-vim
neco-syntax
neco-vim
ale
autofmt
gruvbox
previm
I became a dark side Vimmer
What is a dark side Vimmer??
What is a dark side Vimmer?

• Use a lot of Vim Plugin
• Use a Dark force created by Shougo a.k.a Dark Vim master
  • dein.vim
  • defx.nvim
  • denite.nvim
  • deoplete.nvim and more..
• Use a CLI command on Vim
  • twitvim
  • gina.vim
  • webapi-vim and more..
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I attended at VimConf2018

- Invited by guyon to participate in VimConf2018
- Listen to announcements from various Vimmers
- High extensibility of Vim
Interesting topics

- Web server was running just by pure Vim script
- Description of core features such as termdebug
- Explanation of Vim standard features
- How to make a Vim plugin
I was inspired by Plugin production

• Felt the high extensibility of Vim
• Want to write Vim script
• Want to try Vim art like twitvim, gina.vim and more
• Feel it was cool to rely on Vim
What I did to make the Plugin

• I read the Vim script technique Bible

• I read the Vim document

• Asked questions on vim-jp slack
Vim script テクニックバイブル

Vimの使い方の魔法の本

達人Vimmerが振るう実践的テクニックの教科書
あなたも自分だけのVim愛しにしてかじろう
What was difficult in creating a plugin

- Autoload module division
- Vim script regular expressions
- A few articles about Vim script
Actually created plugin

Weather.vim

• This is a Vim plugin to know the weather with Vim.

Tweet.vim

• This is a Vim Plugin for enjoying Twitter from Vim.
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Opportunity to contribute to OSS
denite.nvim ver3.0 was pre-release
I found out that there was a problem with `vim-airline`
What is \textit{vim-airline}?
1 | Let g:airline#themes#molokai#palette = {}

autoload/airline/extensions/csv.vim
autoload/airline/extensions/eclim.vim
I reported an issue and wanted to fix it.
Denite.vim will release version 3.0 soon. It is developing ui branch now.

I tried to test new denite.vim. I confirmed a lot of errors from vim-airline about denite.vim.

Please check these problems.

I don't use denite. That is your chance to contribute.
Issue was closed...
If someone doesn't fix it
the bug won't be fixed
Who will fix this problem?
Who will fix this problem?

Can I fix it?
Code correction
Thanks. Please change it a bit:

- let mode = split(denite#get_status_mode(), ' ')
+ let mode = split(denite#get_status("mode"), ' ')

instead of replacing the old functions, please use a switch like this:

```plaintext
if exists('*get_status')
    let denite_ver=3
else
    let denite_ver=2
endif
```

and then later on, use

```plaintext
if denite_ver=3
    let mode = split(denite#get_status("mode"), ' ')
else
    let mode = split(denite#get_status_mode(), ' ')
endif
```

etc. so it won't throw errors for people using older denite version.
Receive a correction request from the maintainer
let s:denite_ver = (exists('get_status_mode') ? 2 : 3)

" Denite does not use vim's built-in modal editing but has a custom prompt
" that implements its own insert/normal mode so we have to handle changing the
" highlight
function! airline#extensions#denite#check_denite_mode(bufnr)
  if &filetype != 'denite'
    return ''
  endif

  let mode = split(denite#get_status_mode(), ', ')
  if s:denite_ver == 3
    let mode = split(denite#get_status("mode"), ', ')
  else
    let mode = split(denite#get_status_mode(), ', ')
  endif

  let mode = tolower(get(mode, 1, ''))
  if exists('b:denite_mode_cache') || mode != b:denite_mode_cache
    call airline_highlighter_highlight([mode], a:bufnr)
  endif

@@ -27,10 +33,17 @@ function! airline#extensions#denite#apply(...)
Merge!!

chrisbra commented on 13 May

change for vim-airline has been merged: vim-airline/vim-airline#1918
The hard point with the first OSS contribution

• Complex directory structure
• A lot of files and directories
• At first I didn't know the target edit
• Understanding the scope
What I gained from my first OSS contribution

• Backward compatibility

• Git in collective development

• Knowledge of Vim script

• OSS has been established because someone has contributed
What made me happy during my first OSS contributions

• Great software engineers reviewed my code.

• Many people are using plugins which include my code.

• Now I have developers view points that I didn’t have back then.
What made me happy during my first OSS contributions

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Plugin user

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>↓</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Plugin developer
Vim Plugin seen from User

- Install useful plugins
- If you find a bug in a plugin?
  - Put up with bugs and keep using them
  - Stop using plugin
Vim Plugin seen from Developer

- If a problem occurs, think about the cause
- Report cause or Fix the problem
- Consider adding new features
- Consider backward compatibility
Examples of contributions...

- Fix code
- Add new feature
- Fix typo and translate a document
- Bug report...
Later contributed to various Vim plugins

vim-airline  deoplete-tabnine  vim-sl
defx-icons  webapi-vim  Vim-flutter
vim-go  vimdoc-ja-working  sarahck.vim
vim-orgmode  vim-starwars  vim-ghcid-quickfix
vim-devicons  deoplete-vim-lsp  memolist.vim
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Become a member of vim-jp

- Participated in vim-jp in the summer of 2019

- I support the community with translation activities
I recommend sending a Pull Request here
I recommend sending a Pull Request here

vimdoc-ja-working

- translation

defx-icons

- Add file icon
vimdoc-ja-working
2019/07/02 09:00 JST時点の未翻訳ファイル。

<table>
<thead>
<tr>
<th>ファイル名</th>
<th>行数</th>
<th>追加行数</th>
<th>削除行数</th>
<th>作業者</th>
<th>メモ</th>
</tr>
</thead>
<tbody>
<tr>
<td>autocomd.txt</td>
<td>1662</td>
<td>4(+)</td>
<td>5(-)</td>
<td>kazukazuinaina</td>
<td>完了</td>
</tr>
<tr>
<td>eval.txt</td>
<td>13325</td>
<td>19(+)(-)</td>
<td>0(-)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>index.txt</td>
<td>1728</td>
<td>2(+)</td>
<td>1(-)</td>
<td>kazukazuinaina</td>
<td>完了</td>
</tr>
<tr>
<td>intro.txt</td>
<td>891</td>
<td>2(+)</td>
<td>2(-)</td>
<td>kazukazuinaina</td>
<td>完了</td>
</tr>
<tr>
<td>options.txt</td>
<td>8885</td>
<td>3(+)</td>
<td>3(-)</td>
<td>kazukazuinaina</td>
<td>完了</td>
</tr>
<tr>
<td>popup.txt</td>
<td>757</td>
<td>122(+)(-)</td>
<td>46(-)</td>
<td></td>
<td>PR #610 以降に複数回更新あり</td>
</tr>
<tr>
<td>repeat.txt</td>
<td>1049</td>
<td>11(+)</td>
<td>4(-)</td>
<td>kazukazuinaina</td>
<td>完了</td>
</tr>
<tr>
<td>syntax.txt</td>
<td>5558</td>
<td>2(+)</td>
<td>2(-)</td>
<td>kazukazuinaina</td>
<td>完了</td>
</tr>
<tr>
<td>textprop.txt</td>
<td>146</td>
<td>2(+)</td>
<td>2(-)</td>
<td>kazukazuinaina</td>
<td>完了</td>
</tr>
</tbody>
</table>
defx-icons
call plug#begin('~/.local/share/nvim/plugged')

Plug 'autozimu/LanguageClient-neovim', {
  'branch': 'next',
  'do': 'bash install.sh',
}

call plug#end()

augroup filetype_rust
  autocmd!
augroup END

" Always draw sign column. Prevent buffer moving when adding/deleting sign. 
set signcolumn=yes

let g:LanguageClient_serverCommands = {
  'rust': ['rustup', 'run', 'stable', 'rls'],
}
let $RUST_BACKTRACE = 1
let g:LanguageClient_loggingLevel = 'INFO'
let g:LanguageClient_loggingFile = expand('~/.local/share/nvim/LanguageClient.log')
let g:LanguageClient_serverStderr = expand('~/.local/share/nvim/LanguageServer.log')
A patch that displays a gear icon in a toml file
URL

• vimdoc-ja-working
  • https://github.com/vim-jp/vimdoc-ja-working

• defx-icons
  • https://github.com/kristijanhusak/defx-icons
What I want to tell

• Contributing to OSS is not scary

• OSS is made up of someone doing maintenance

• If no one develops, development stops

• There is a way to support Developer side from User side
All you need is the courage to take a step.
The next OSS contributor is ...
The next OSS contributor is ... You !!!