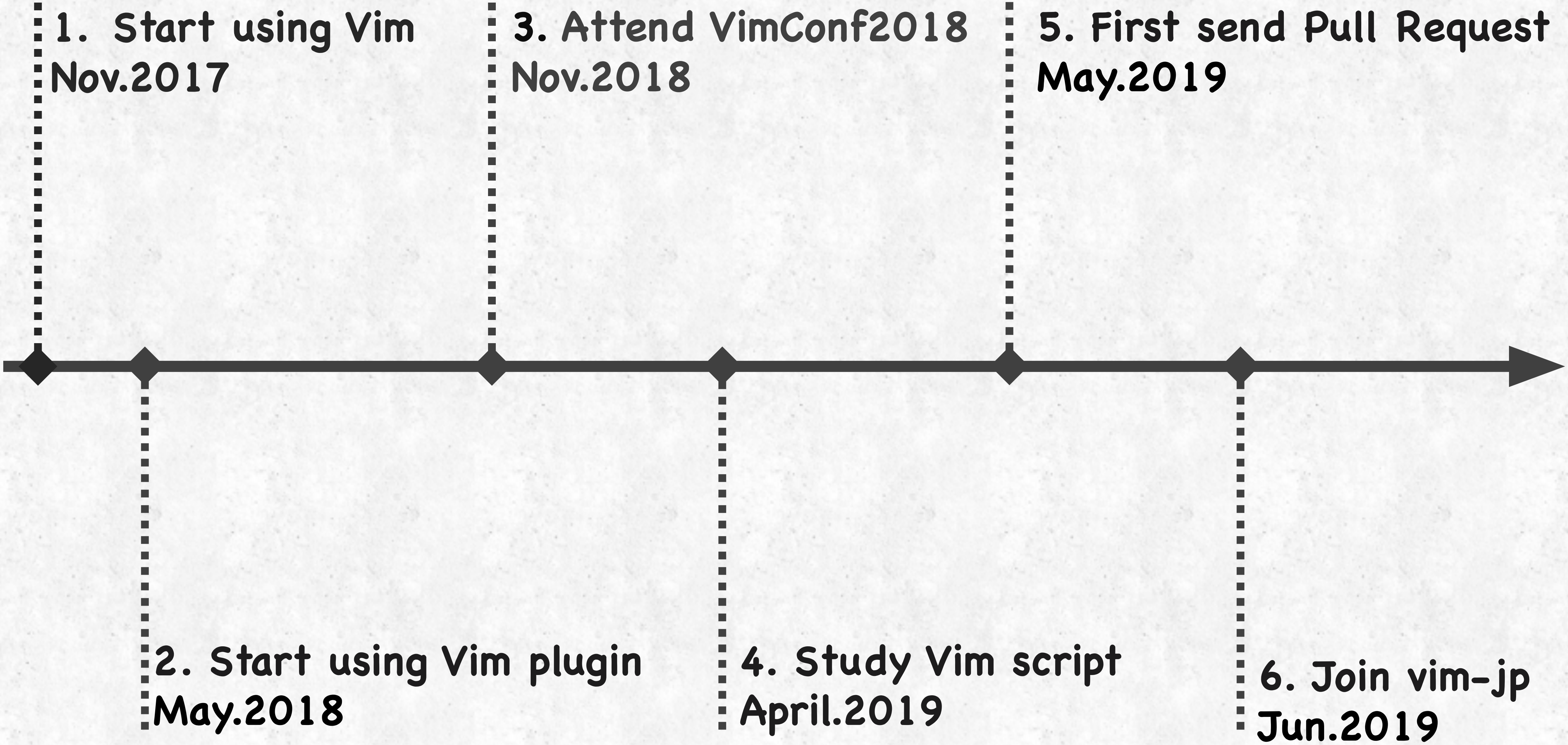
Grown up from Vim user
to
Vim plugin developer side

IK : 2019-11-3 : VimConf2019

Designed by @taken_0114 and @get_me_power

Outline



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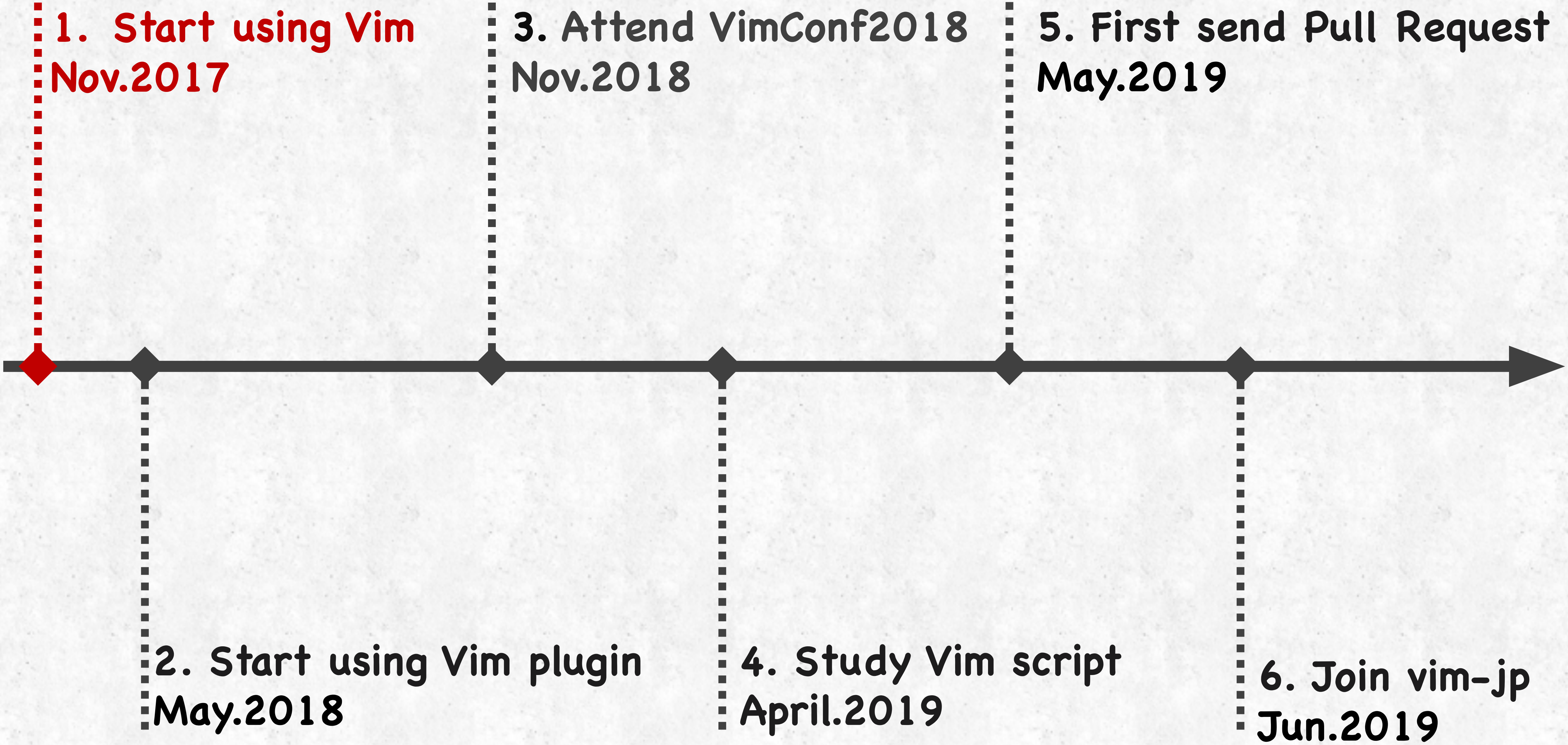

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:help IK.txt

Name: Kazuma Inagaki

Job: undergraduate

College of Information science and Engineering

Language: Ruby, Python, and Ruby on Rails

:help IK.txt

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Job: undergraduate

I have been writing only Vim script recently

College of Information science and Engineering

Language: Ruby, Python, and Ruby on Rails

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

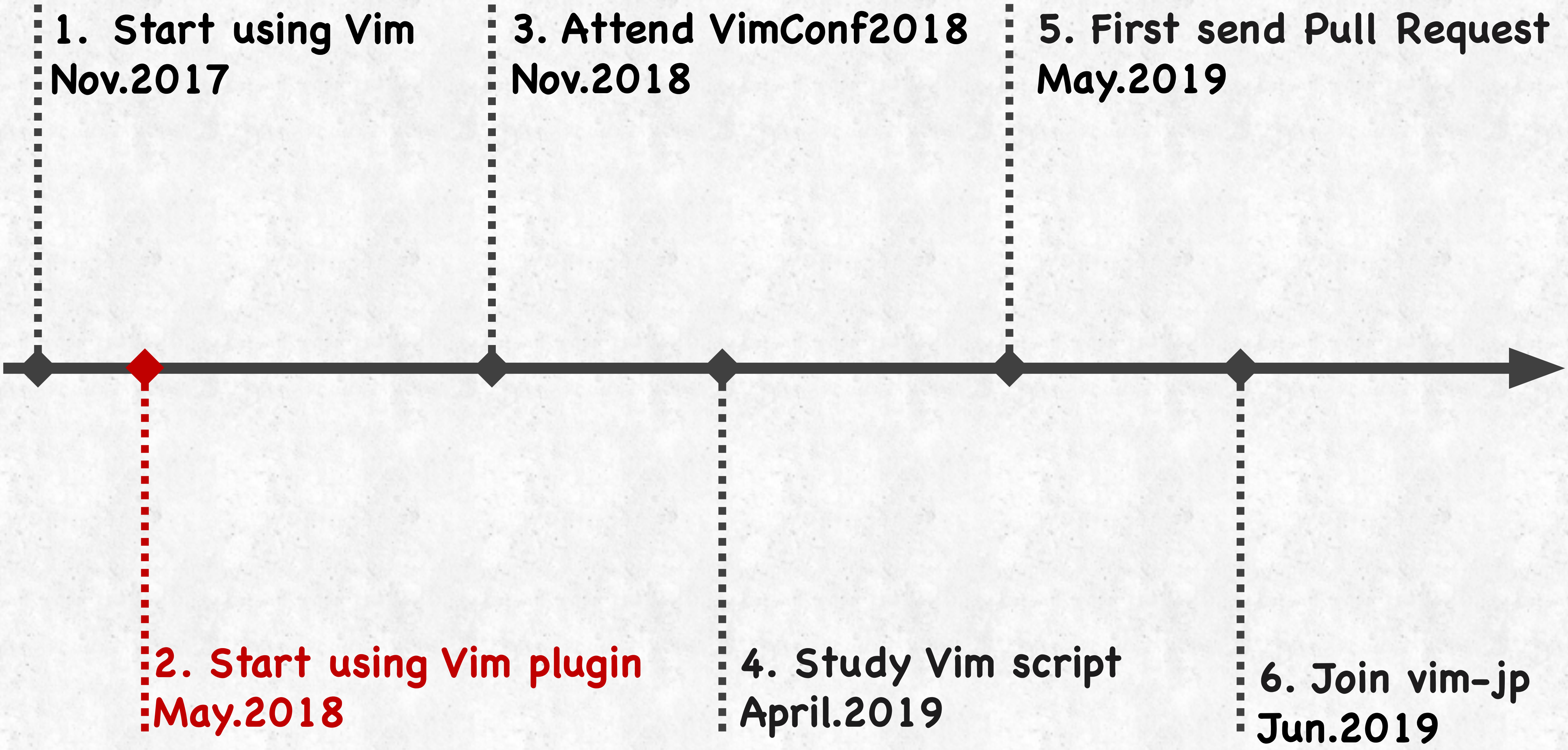
Difficult points

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

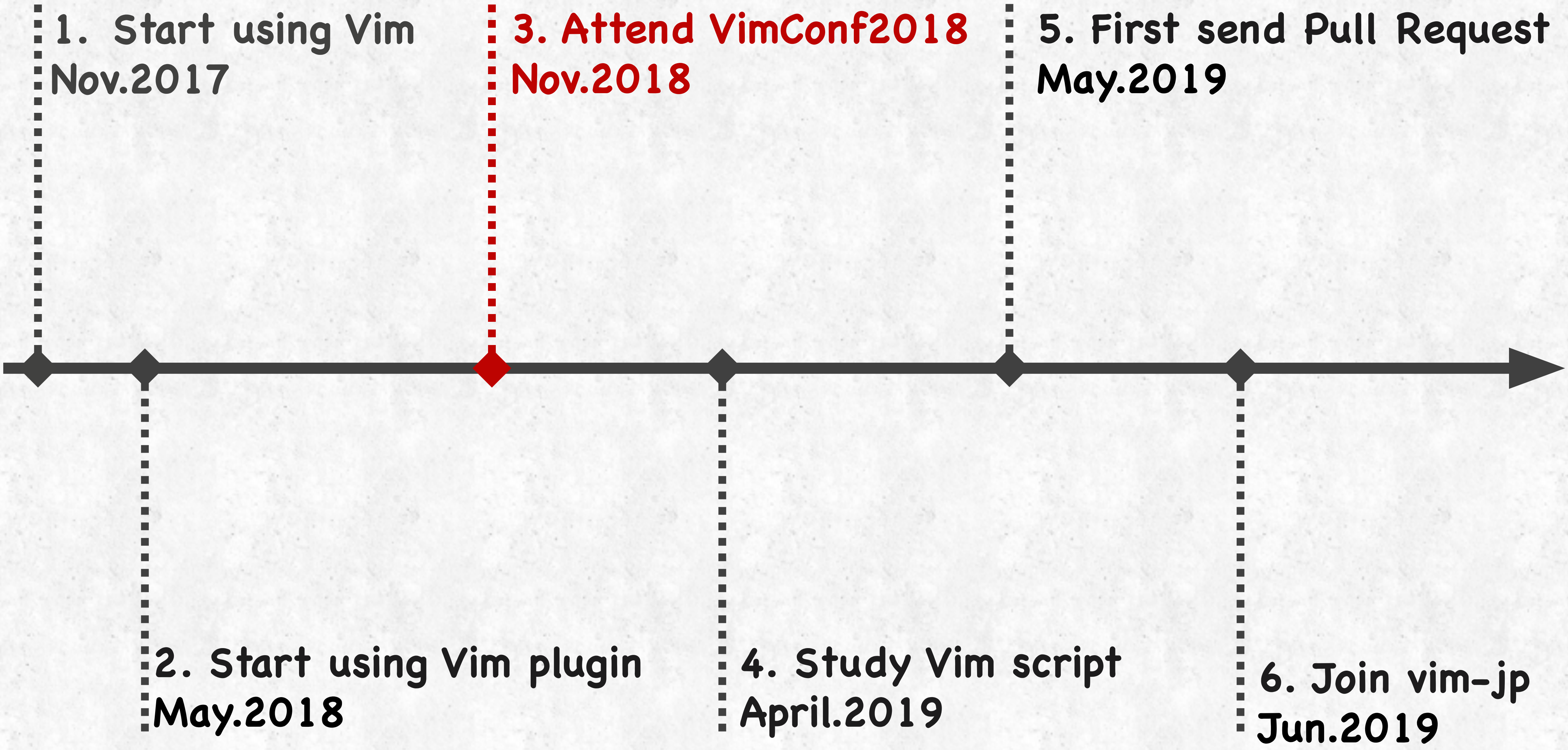
vim-quickrun
vim-surround
vim-speeddating
vim-starwars
vim-sl
emmet-vim
webapi-vim
neco-syntax
neco-vim
ale
autofmt
gruvbox
previm

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

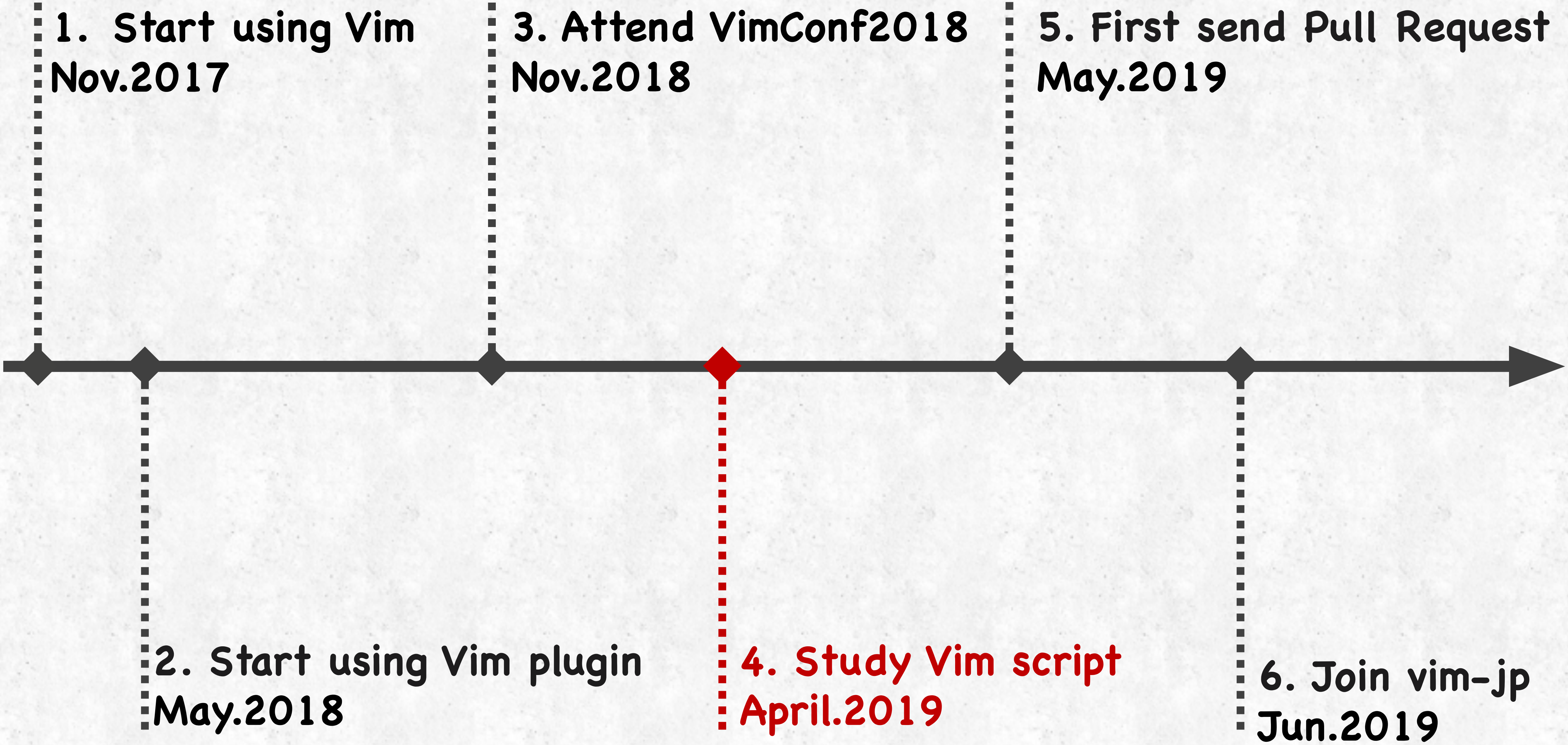
- Invited by guyon to participate in VimConf2018
- Listen to announcements from various Vimmers
- High extensibility of Vim

Interesting topics

- Web server was running just by pure Vim scirpt
- 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



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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 script
サポーターズ◆著

Vim使いの魔法の杖

Vim7.4
対応!

Vimスクリプトの基礎からプラグインの製作・公開方法まで

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探しにでかけよう

技術評論社

What was difficult in creating a plugin

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

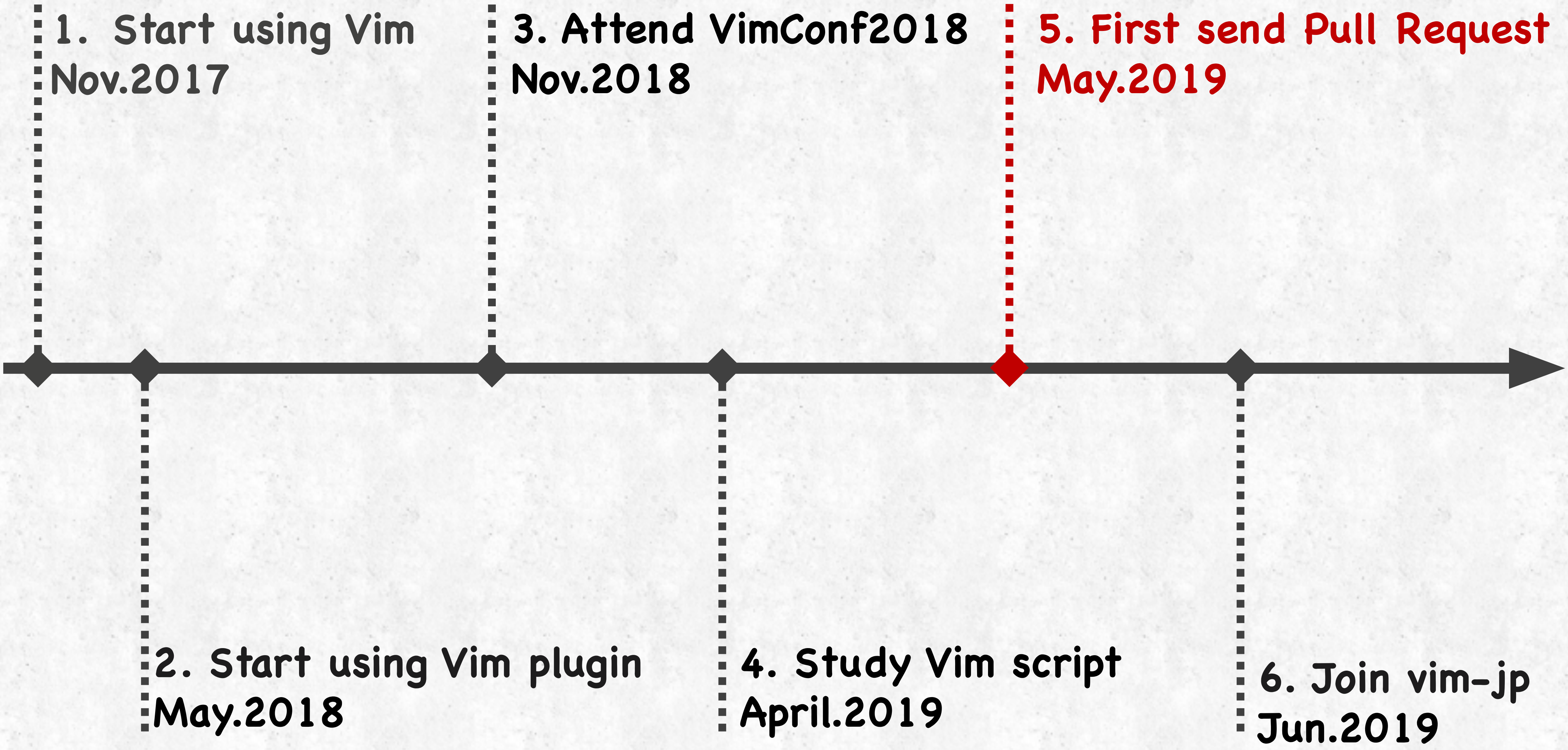
Actually created plugin

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

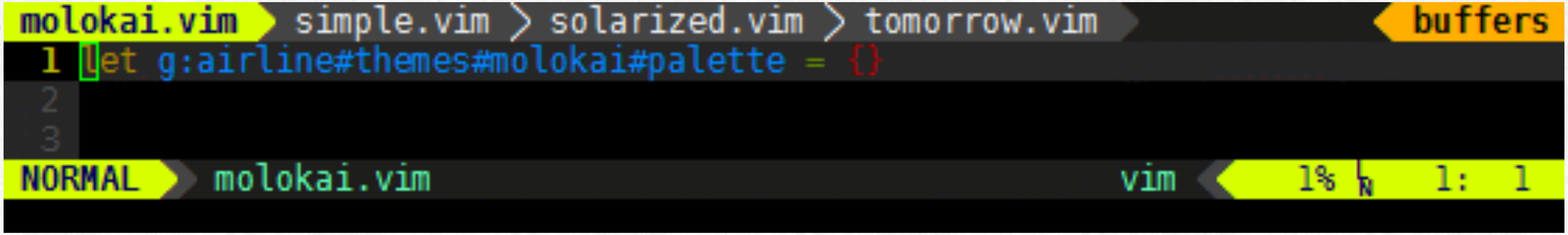
denite.nvim ver3.0 was pre-release

ERROR

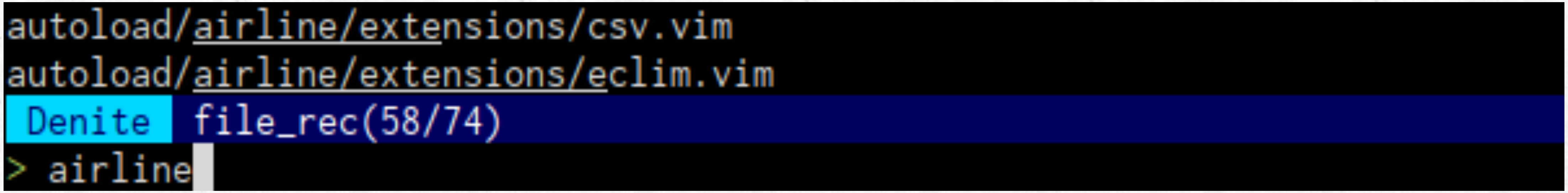
I found out that there was a problem with

`vim-airline`

What is *`vim-airline`*?

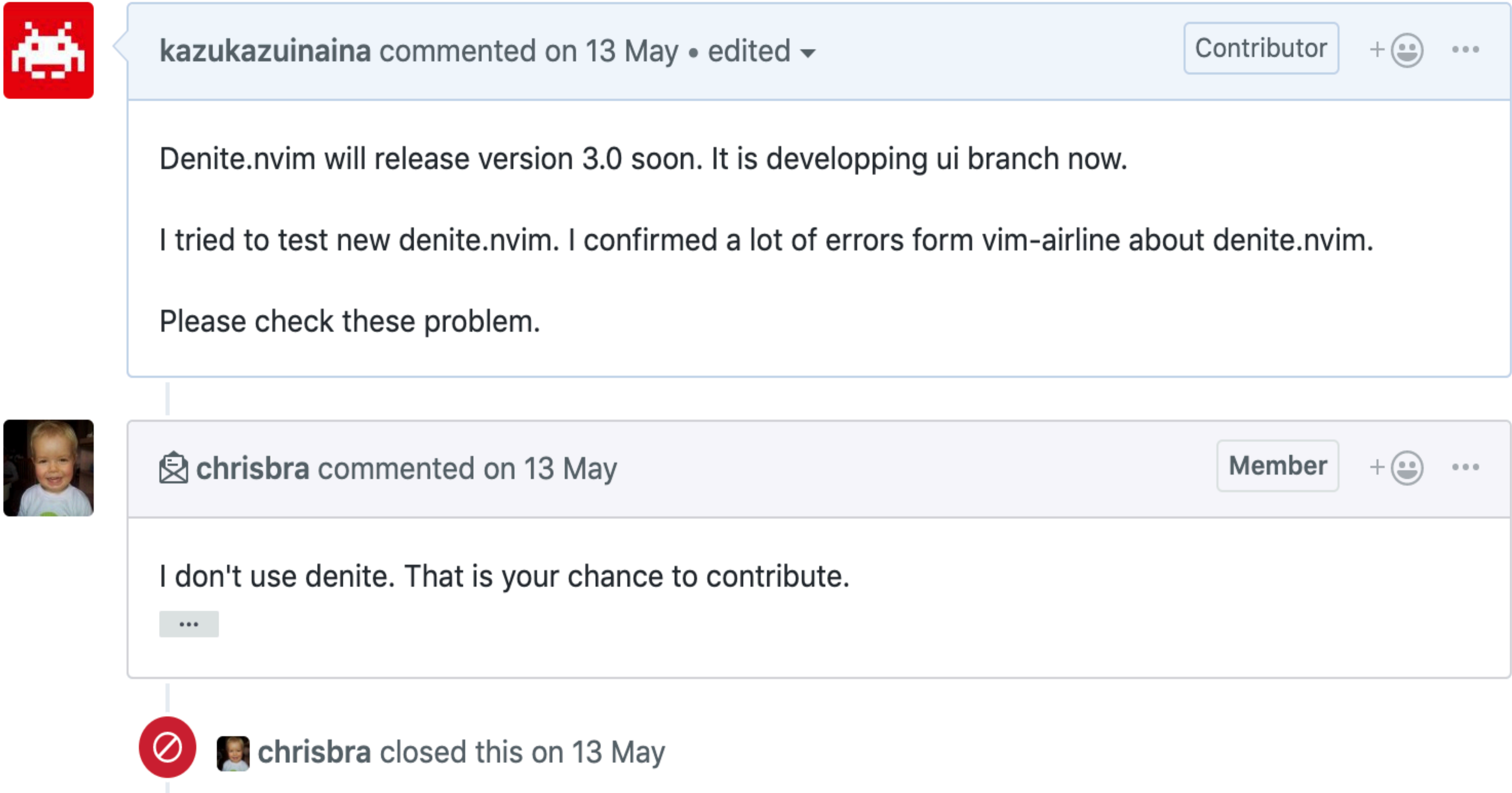


```
 molokai.vim  simple.vim > solarized.vim > tomorrow.vim                    buffers
  1 let g:airline#themes#molokai#palette = {}
  2
  3
 NORMAL  molokai.vim                                          vim   1% ㏑  1:  1
```



```
autoload/airline/extensions/csv.vim
autoload/airline/extensions/eclim.vim
 Denite  file_rec(58/74)
> airline
```

I reported an issue and wanted to fix it



kazukazuinaina commented on 13 May • edited

Denite.nvim will release version 3.0 soon. It is developping ui branch now.

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

Please check these problem.

chrisbra commented on 13 May

I don't use denite. That is your chance to contribute.

chrisbra closed this on 13 May

Issue was closed…

If someone doesn't fix it

the bug won't be fixed

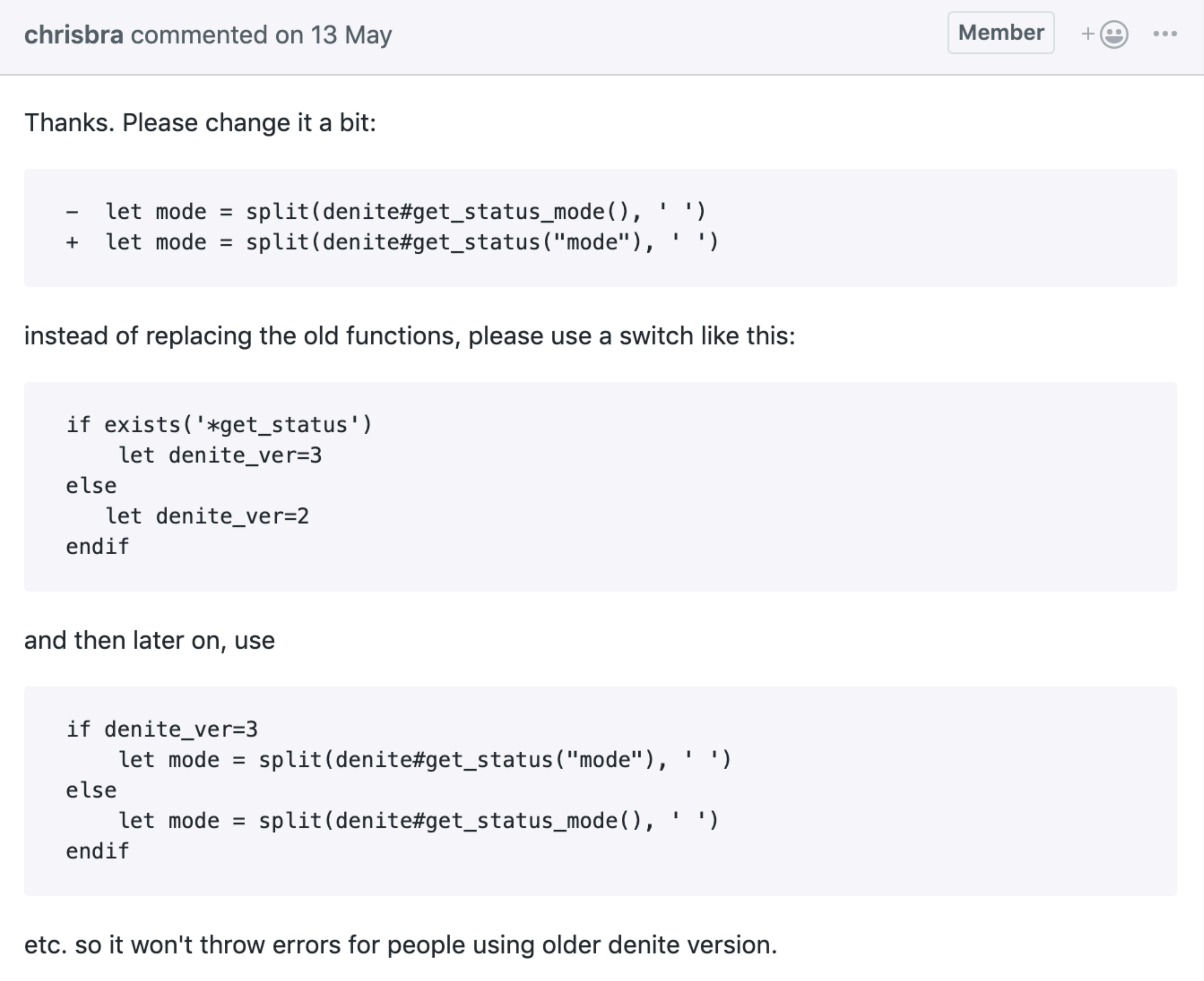
Who will fix this problem?

Who will fix this problem?

↓

Can I fix it?

Code correction



chrisbra commented on 13 May

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:

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

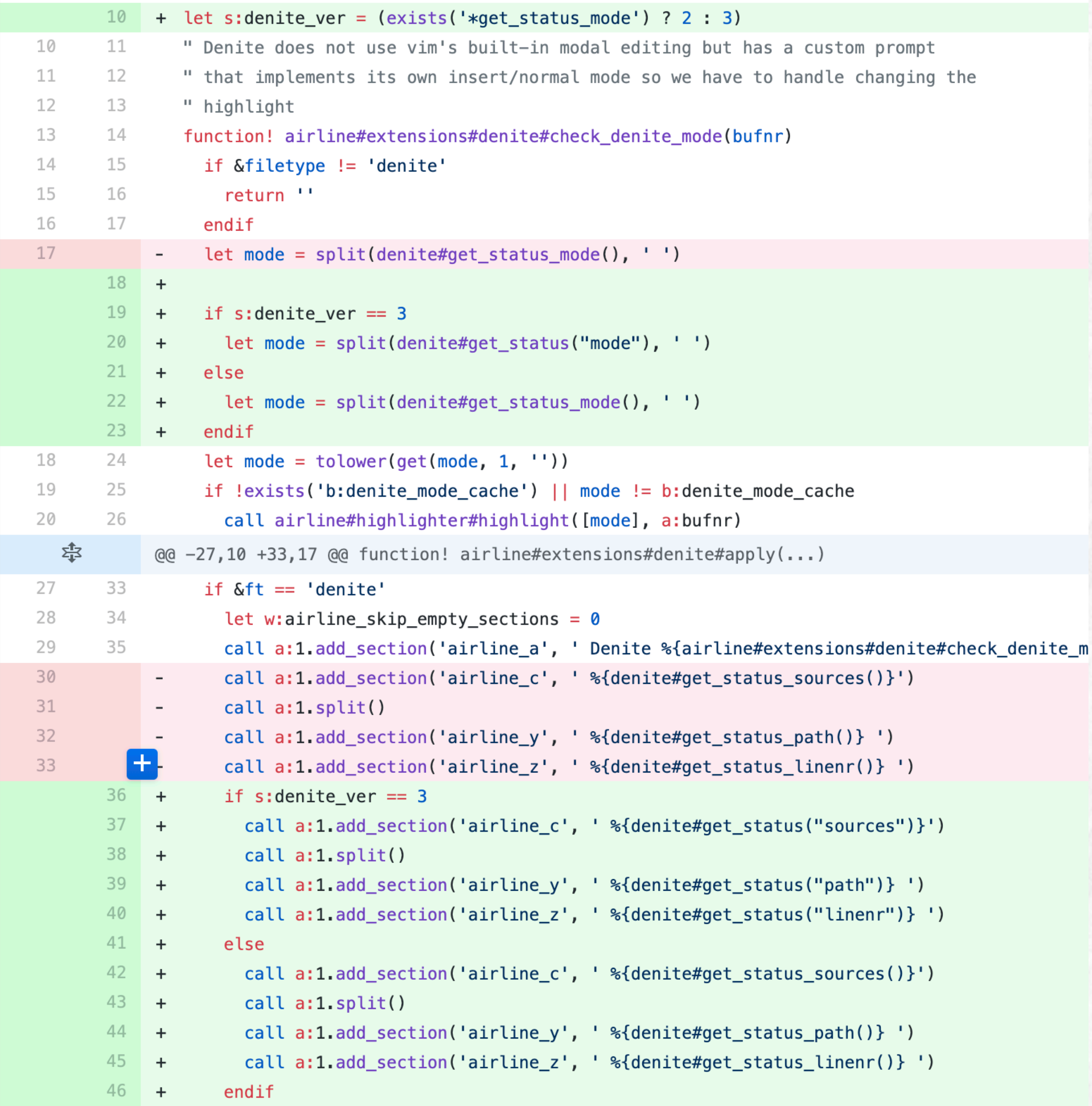
and then later on, use

```
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.

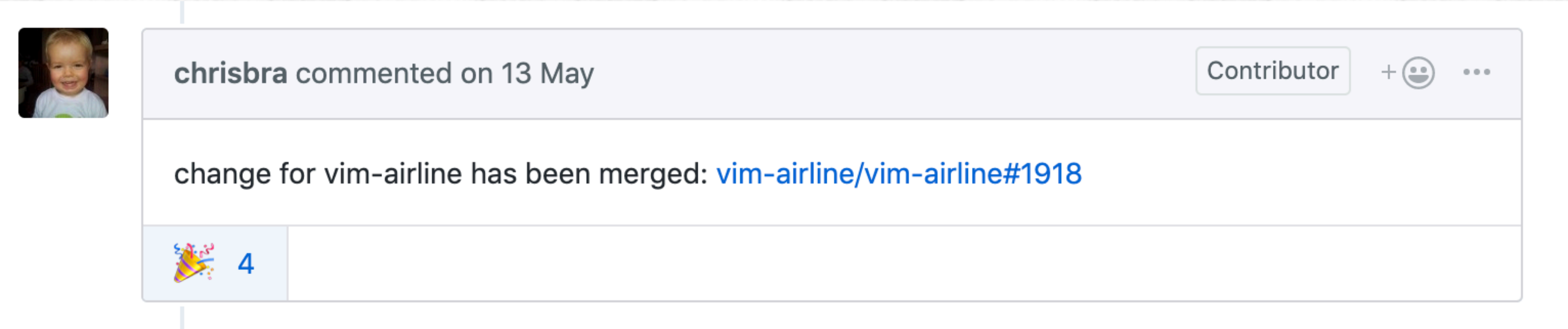
Receive a correction request

from the maintainer



```diff
+ 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)
@@ -27,10 +33,17 @@ function! airline#extensions#denite#apply(...)
    if &ft == 'denite'
      let w:airline_skip_empty_sections = 0
      call a:1.add_section('airline_a', ' Denite %{airline#extensions#denite#check_denite_m
-     call a:1.add_section('airline_c', ' %{denite#get_status_sources()}')
-     call a:1.split()
-     call a:1.add_section('airline_y', ' %{denite#get_status_path()} ')
-     call a:1.add_section('airline_z', ' %{denite#get_status_linenr()} ')
+     if s:denite_ver == 3
+       call a:1.add_section('airline_c', ' %{denite#get_status("sources")}')
+       call a:1.split()
+       call a:1.add_section('airline_y', ' %{denite#get_status("path")} ')
+       call a:1.add_section('airline_z', ' %{denite#get_status("linenr")} ')
+     else
+       call a:1.add_section('airline_c', ' %{denite#get_status_sources()}')
+       call a:1.split()
+       call a:1.add_section('airline_y', ' %{denite#get_status_path()} ')
+       call a:1.add_section('airline_z', ' %{denite#get_status_linenr()} ')
+     endif
```

🎉 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.

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Plugin user

↓

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

defx-icons

vim-go

vim-orgmode

vim-devicons

deoplete-tabnine

webapi-vim

vimdoc-ja-working

vim-starwars

deoplete-vim-lsp

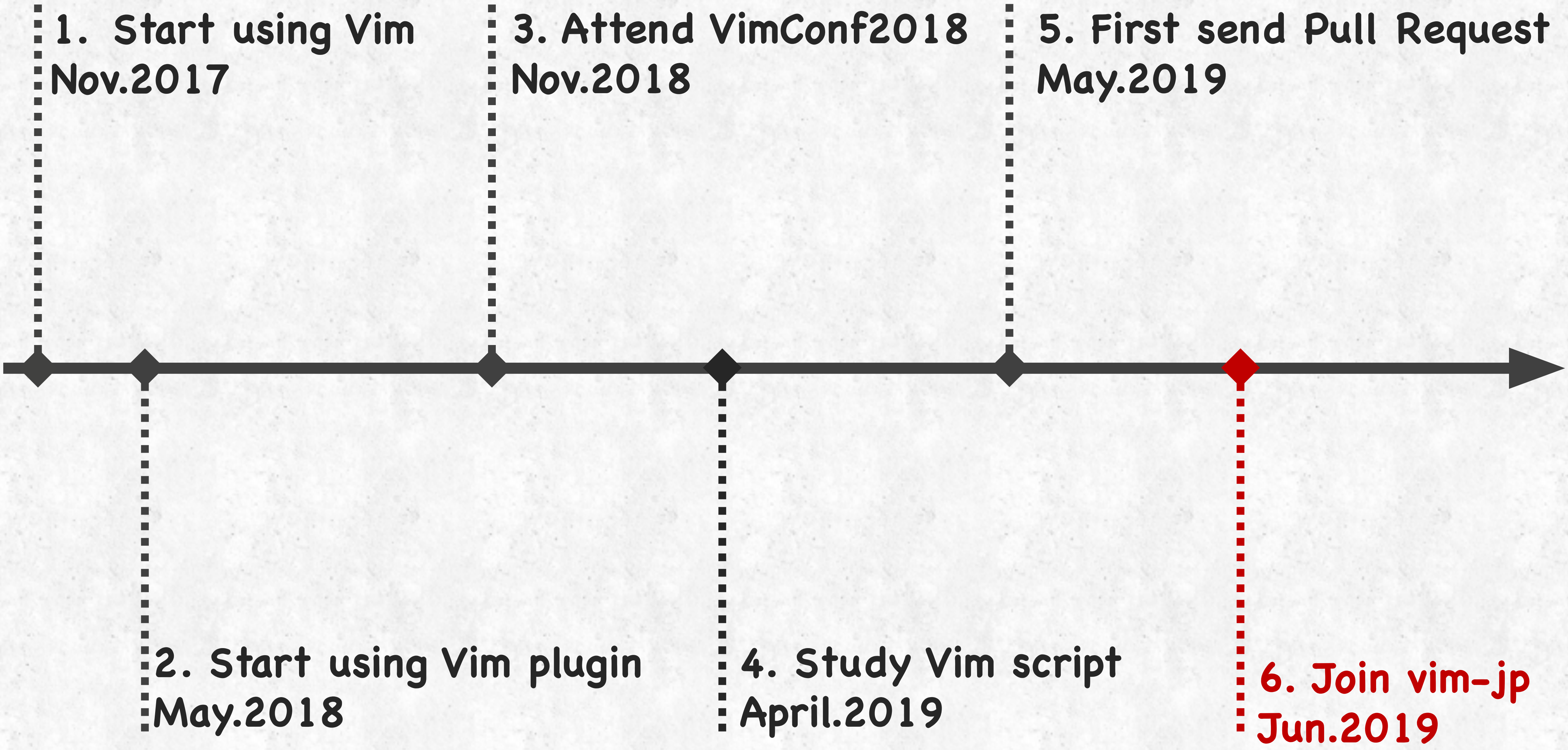
vim-sl

Vim-flutter

sarahck.vim

vim-ghcid-quickfix

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

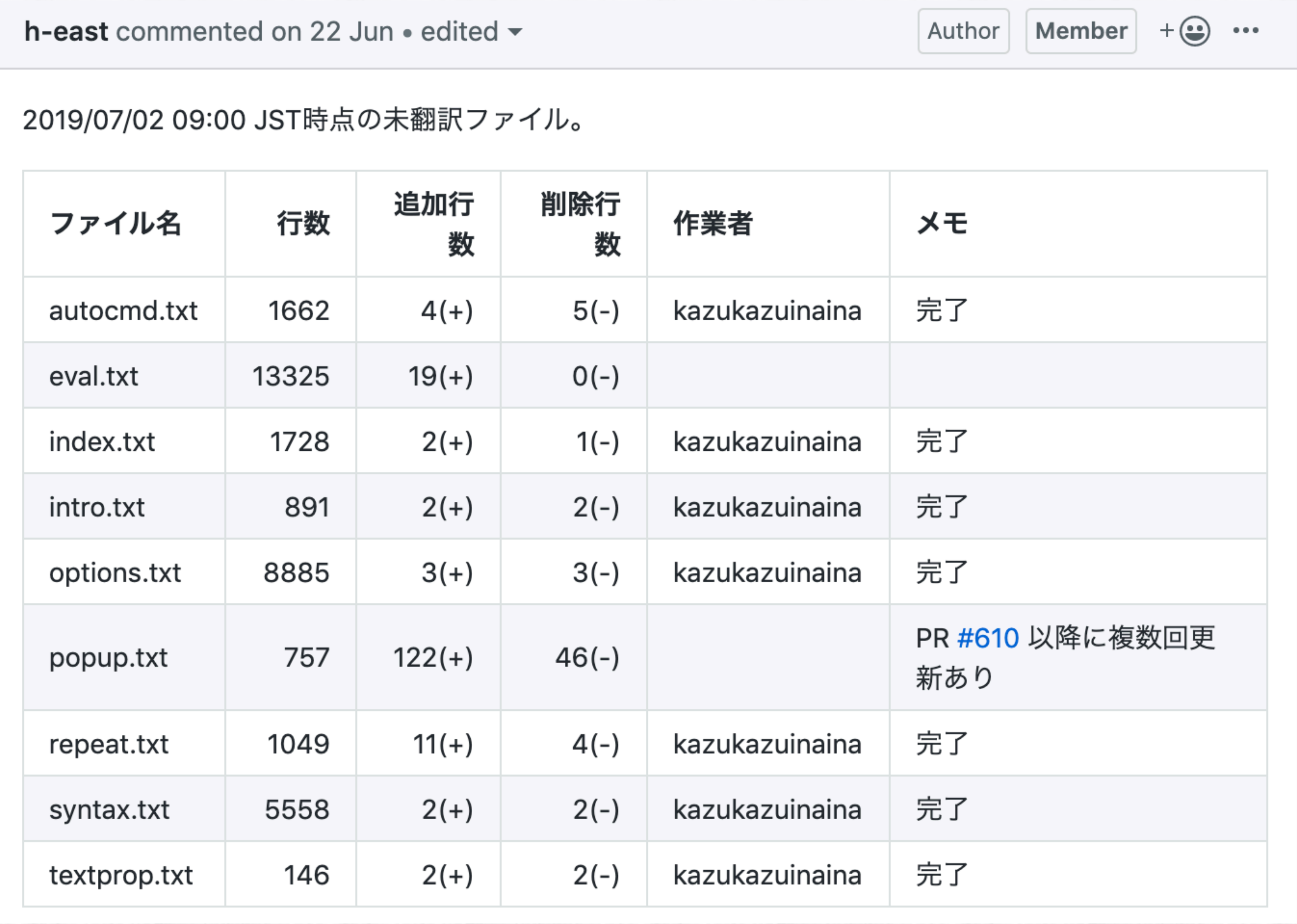
vimdoc-ja-working

- translation

defx-icons

- Add file icon

vimdoc-ja-working

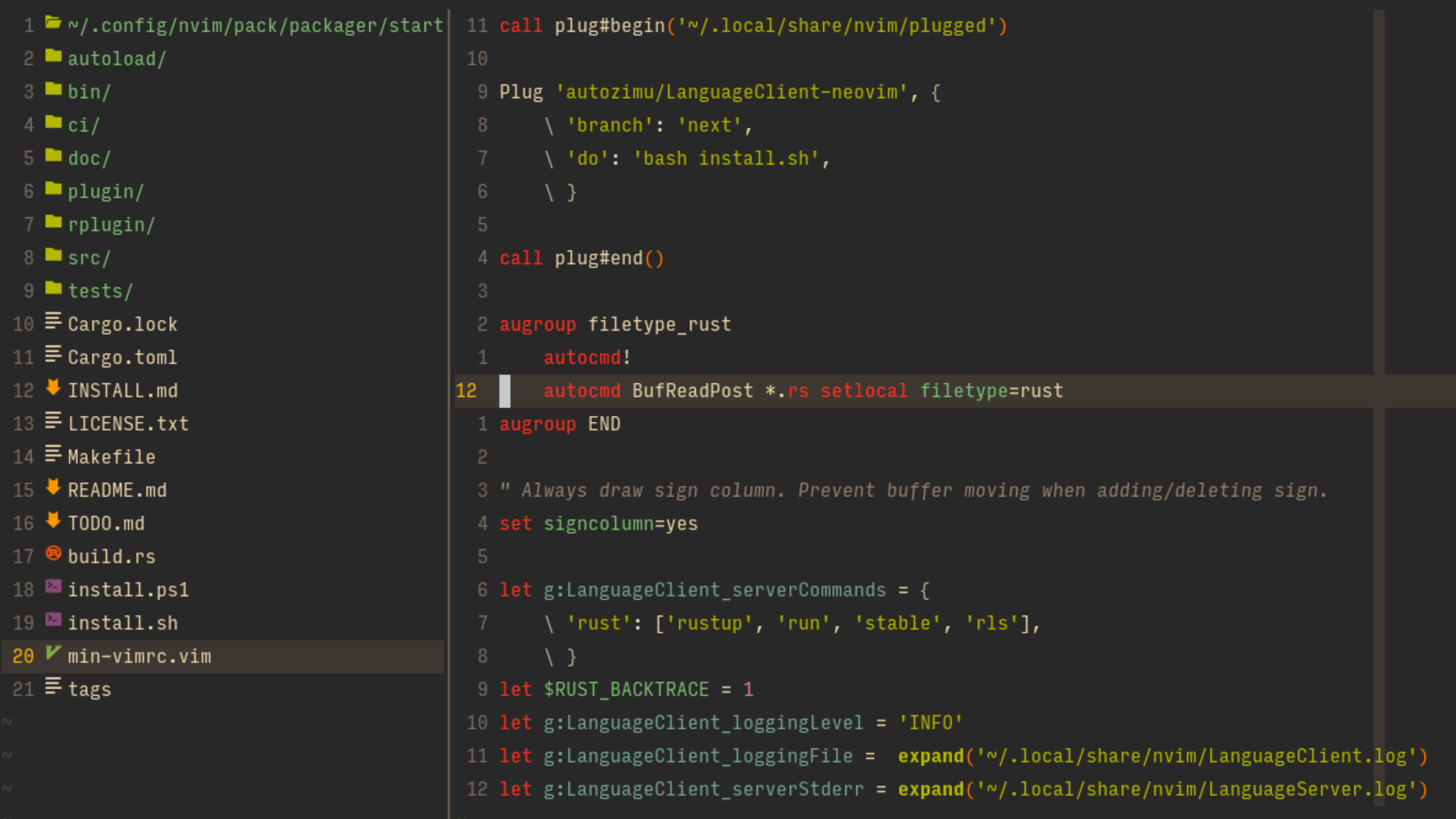


h-east commented on 22 Jun • edited

2019/07/02 09:00 JST時点の未翻訳ファイル。

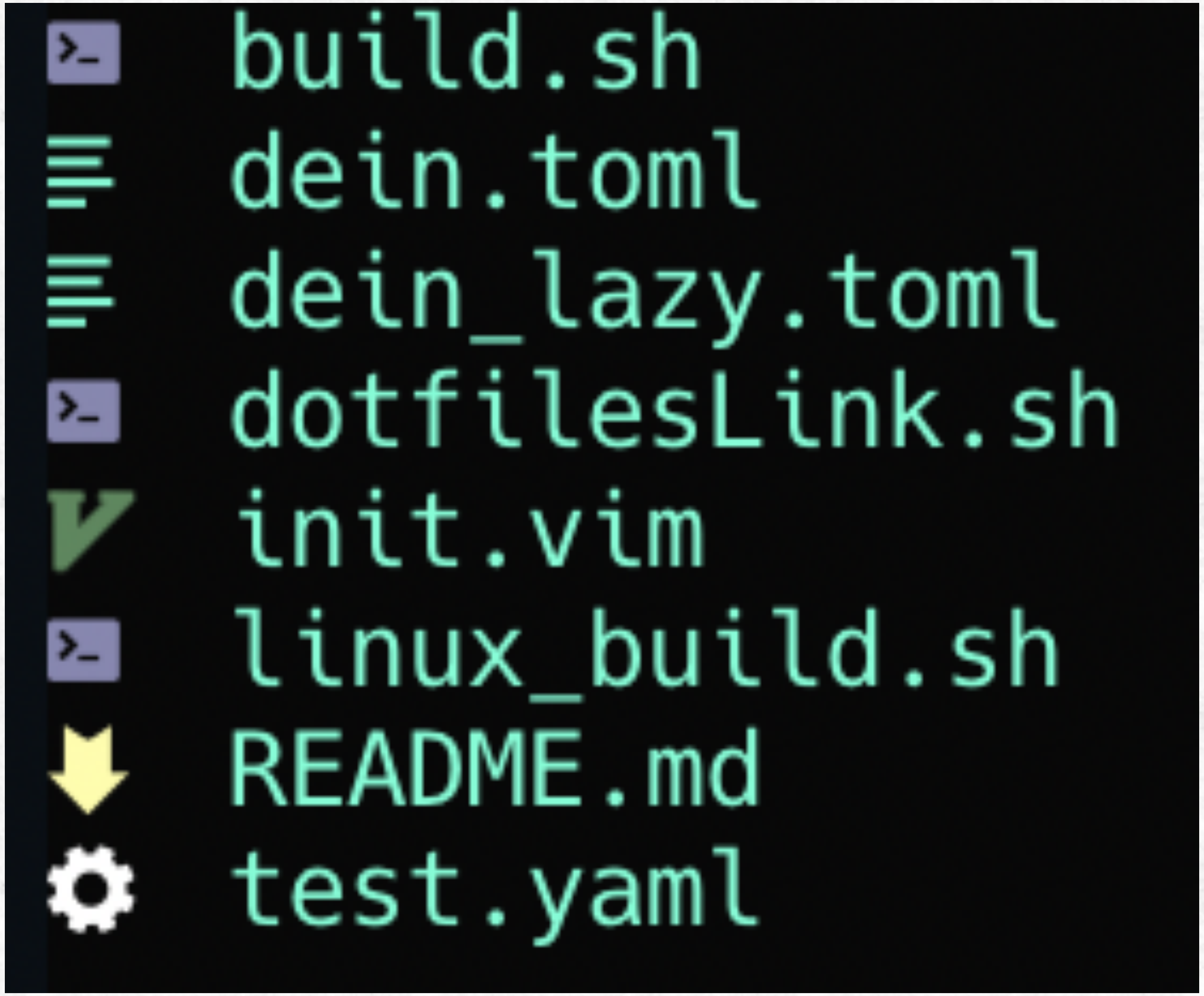
ファイル名	行数	追加行数	削除行数	作業者	メモ
autocmd.txt	1662	4(+)	5(-)	kazukazuinaina	完了
eval.txt	13325	19(+)	0(-)		
index.txt	1728	2(+)	1(-)	kazukazuinaina	完了
intro.txt	891	2(+)	2(-)	kazukazuinaina	完了
options.txt	8885	3(+)	3(-)	kazukazuinaina	完了
popup.txt	757	122(+)	46(-)		PR #610 以降に複数回更新あり
repeat.txt	1049	11(+)	4(-)	kazukazuinaina	完了
syntax.txt	5558	2(+)	2(-)	kazukazuinaina	完了
textprop.txt	146	2(+)	2(-)	kazukazuinaina	完了

defx-icons



```
~/.config/nvim/pack/packager/start
autoload/
bin/
ci/
doc/
plugin/
rplugin/
src/
tests/
Cargo.lock
Cargo.toml
INSTALL.md
LICENSE.txt
Makefile
README.md
TODO.md
build.rs
install.ps1
install.sh
min-vimrc.vim
tags
```

```
call plug#begin('~/.local/share/nvim/plugged')

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

call plug#end()

augroup filetype_rust
    autocmd!
    autocmd BufReadPost *.rs setlocal filetype=rust
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')
```



```
build.sh
dein.toml
dein_lazy.toml
dotfilesLink.sh
init.vim
linux_build.sh
README.md
test.yaml
```

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 contributer is …

The next OSS contributer is …

You !!!