

**Differences
between Nvim and
Vim8
full version**

Shougo

Profile

- It is really needed?
- Shougo
- The dark powered Vim 暗黒美無王
- Uncock Vim Awe, The dark Vim maestro
- Vimrc 500 lines + toml configuration
- 90 plugins



Background

- Nvim(neovim) is used for 30%~40% of Vimmers in 2017 VimConf.
- But why are you use Vim8 or neovim?
- **"Vim8 has almost same APIs. So, Nvim is deprecated."**

Really???

Do you know Nvim advantages and disadvantages?

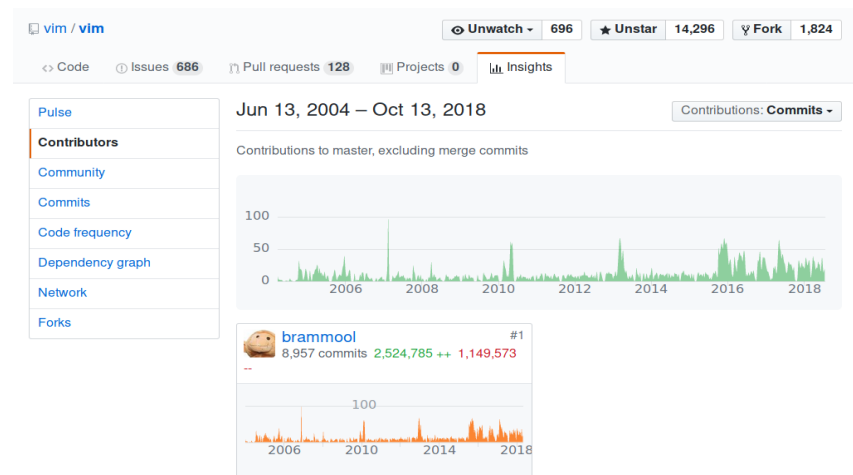
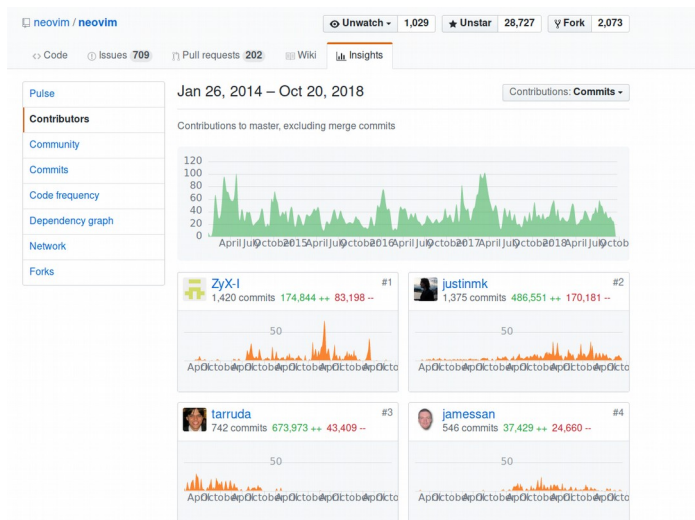
- I can explain them to you!
- Because I am the contributor of Vim and Nvim.

Note

- **O**: Nvim is better
- **X**: Vim is better
- **?**: It depends on your usage

?: Nvim is not BDFL project

- Nvim has many contributors
- Vim is committed by Bram



?: Nvim use funding for full time development

- <https://salt.bountysource.com/teams/neovim>
- Some people partly works for Nvim in weeks.
- Vim recommends to donate to Uganda. But it is not used for full time development
- **:help donate**

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Neovim
vim out of the box

83% of \$2,500 goal

\$2,075 this month from 267 supporters

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O: Nvim supports XDG defaults

- Nvim uses **`$XDG_CONFIG_HOME/nvim/init.vim`** instead of **`~/.vim/vimrc`**
- Nvim uses **`$XDG_CONFIG_HOME/nvim`** instead of **`~/.vim`**

O: Nvim defaults

- Nvim always **nocompatible** mode
- Nvim does not use **defaults.vim**
- Syntax, indent and filetype plugins are enabled in default
- Many options are enabled in default.
- **:help nvim-defaults** in Nvim

O: Nvim uses shada instead of viminfo

- It is MessagePack binary format
- **:help shada** in Nvim

O: Nvim implements original APIs

- nvim prefixed **nvim_xxx** APIs
- **nvim_parse_expression()** - Parse a Vim Script expression
- **:help api** in Nvim

O: Nvim implements inccommand option

- It is live preview feature when substitute
- [Demo]

O: Nvim implements built-in LSP supports(WIP)

- You don't need to install external LSP plugins.
<https://github.com/neovim/neovim/pull/6856>
- Deoplete-lsp uses it
<https://github.com/Shougo/deoplete-lsp>
- [Demo]

?: Nvim re-implements GUI and Windows supports

- It is not stable like GVim, but many GUIs are already available
 - Nvim-qt
<https://github.com/equalsraf/neovim-qt>
 - Gonvim
<https://github.com/akiyosi/gonvim>
[Demo]?

?: Nvim re-implements TUI

- “**term.c**” is removed
- **t_XXX** variables are removed
- If Nvim works, but Vim8 may not work properly in terminal
- If Vim8 works, but Nvim may not work properly in terminal

X: Nvim re-implements external interfaces

- **if_python, if_ruby**
- And it is slow than Vim8...

O: Nvim remote plugins

- You can use many Languages than Vim8 to create Nvim plugins
<https://github.com/neovim/neovim/wiki/Related-projects#api-clients>
- Many client are available!

O: Nvim includes Lua

- You can use Lua in Nvim!
- Note: The API is not compatible with `if_lua` yet.

?: Nvim's job and terminal feature

- Both are simple version and not compatible with Vim API.
- Because, Nvim implements the features before Vim8.

X: Nvim has not included complete Vim patches

- Nvim already includes many Vim patches.
- But it is not completed.
- You can contribute it!

Who should use Nvim?

- "I like Nvim development style."
- "I like Nvim original features."
- "I want to support Nvim development."
- "I want to create plugins without Vim script."

Who should use Vim8?

- "I like Vim8 development style."
- "I don't like Nvim incompatibility."
- "I want to use Vim HEAD features."

FAQ: Nvim is faster than Vim8?

- It depends on your environment and usage.
- Try it!

More?

- **:help vim-differences** in Nvim documentation

Extra

- In vimconf 2019, I will talk about the 4th generation plugins development.
- 1st generation plugins: **neocomplcache.vim**, **vimshell.vim**
- 2nd generation plugins: **neocomplete.vim**, **unite.vim**
- 3rd generation plugins: **deoplete.nvim**, **denite.nvim**
- 4th generation plugins: **defx.nvim**, **deoppet.nvim**

Thank you!