Developing a Vim plugin with Ruby, or when in Ruby do as the Rubyists do

VimConf 2023 Tiny

About me

- Name: OKURA Masafumi
- Company: nil (freelancer)
- Strength: Web development with Rails
- Activities: Rubyist, Kaigi on Rails chief organizer, speaker, OSS maintainer (Alba)
- Vim user history: Vim (2013-2018), Neovim (2018-)

Question

Your choice of the language

s.forthe development of Vim plugins

/(Neo)?vim/

Language for the development of vim plugins

- 1. Vim script
- 2. Vim9 script
- 3. Lua
- 4. Deno

Language for the development of vim plugins

- 1. Vim script
- 2. Vim9 script
- 3. Lua
- 4. Deno
- 5. Ruby

No one (Ibelieve)

Why Ruby?

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When in Ruby

When you want to manipulate Ruby code

Do as the Rubyists do

What do Rubyists do?

A OSTIACT Syntax

RubyVM::AbstractSyntaxTree

RubyVM::AbstractSyntaxTree

- Stdlib
 - No external dependencies
 - No need to install something via package managers
- Takes Ruby source code as a String and returns AST root node
- Not best for modifying code but good enough to get some information from code

RSpec

RSpec

- One of the most famous testing libraries for Ruby
 - In fact, one of the most downloaded library
- Introducing DSLs such as `describe`, `context`, `it` and `let`
 - These can be deeply nested
- Tests can be implicit with `subject` and `is_expected`

The problem

Mhatisthe context/subject?

rspec-current.vim

Demo

Why not LSP?

Why not LSP for this case?

- Too trivial/niche
 - I cannot push this feature into generic LSP servers
- Not enough functionality on extension/add-on/plugin system
 - ruby-lsp provides add-on system, but it's immature now
- Too many things to learn for only one feature
 - LSP is not the easiest thing to learn

Ruby as a solution!

Using Ruby as a development language

- Simple/Easy
 - One file to work, no external dependencies
- Straightforward
 - Just plain Ruby code
- Less things to learn
 - We need to learn how to develop a plugin with Ruby, but it's simpler than learning LSP

HOW to

gem install neovim If you use Neovim

rubyeva

Ruby heredoc

Summary

Usecase

Usecase for using Ruby as a development language for vim

Languagespecific features

Use your own language!

Happy vimming!