

Setting up R, vimtex and Ultisnips in vim

Ronald (Ryy) Glenn Thomas

9/20/23

Table of contents

1	Introduction
2	.vimrc
3	.zshrc

1
3
6



Figure 1: vim setup

1 Introduction

Start with installing Nvim-R, vimtex, and ultisnips.

See post “Setting up a minimal neovim...” for details on installing plugins with Neovim.

https://www.reddit.com/r/vim/comments/7c7wd9/vim_vimtex_zathura_on_macos/

<https://stackoverflow.com/questions/40077211/e185-cannot-find-color-scheme>

<https://github.com/morhetz/gruvbox/issues/219>

<https://github.com/junegunn/vim-plug/issues/325>

<https://github.com/dylananaraps/pywal/wiki/Getting-Started>

<https://github.com/dylananaraps/wal.vim>

<https://github.com/dylananaraps/pywal/wiki/Customization>

<https://github.com/lervag/vimtex/issues/1420>
<https://latextools.readthedocs.io/en/latest/install/>
<https://mg.readthedocs.io/latexmk.html>
<https://gist.github.com/LucaCappelletti94/920186303d71c85e66e76ff989ea6b62>
<https://github.com/lervag/vimtex/issues/1420>
<https://latextools.readthedocs.io/en/latest/install/>
<https://github.com/lervag/vimtex/issues/1420>
<https://github.com/lervag/vimtex/issues/940>
<https://github.com/lervag/vimtex/issues/663>
<http://www.math.cmu.edu/~gautam/sj/blog/20140310-zathura-fsearch.html>
<https://gitter.im/SirVer/ultisnips>
<https://github.com/SirVer/ultisnips/issues/1107>
<https://github.com/SirVer/ultisnips/issues/1022>
<https://github.com/SirVer/ultisnips/issues/850>
<https://superuser.com/questions/1115159/how-do-i-install-vim-on-osx-with-python-3-support>
https://jdhao.github.io/2020/01/05/ultisnips_python_interpolation/
http://witkowskibartosz.com/blog/python_snippets_in_vim_with_ultisnips.html#.Xnw9gtP7TRY
<https://germaniumhq.com/2019/02/07/2019-02-07-Vim-Ultimate-Editing:-UltiSnips/>
<http://vimcasts.org/episodes/ultisnips-python-interpolation/>
<https://wraihan.com/posts/vimtex-and-zathura/>

2 .vimrc

```
let mapleader = ","
let maplocalleader = " "
set nocompatible
set encoding=utf-8
syntax enable
set lazyredraw
set autochdir
set termguicolors
set number relativenumber
set clipboard=unnamed
set textwidth=72
set colorcolumn=80
set cursorline
set hlsearch
set splitright
set hidden
set incsearch
set noswapfile
set showmatch
set ignorecase
set smartcase
set gdefault
filetype plugin on
"

call plug#begin()
"essential plugins
Plug 'jpalardy/vim-slime'
Plug 'dense-analysis/ale'
Plug 'lervag/vimtex'
Plug 'sirver/ultisnips'
"

"IDE like enhancements
Plug 'vifm/vifm.vim'
Plug 'junegunn/fzf', { 'do': { -> fzf#install() } }
Plug 'junegunn/fzf.vim'
Plug 'tpope/vim-unimpaired'
Plug 'ervandew/supertab'
```

```

Plug 'junegunn/vim-peekaboo'
Plug 'justinmk/vim-sneak'
Plug 'tpope/vim-surround'
Plug 'tpope/vim-repeat'
Plug 'tpope/vim-commentary'
Plug 'machakann/vim-highlightedyank'
Plug 'vim-airline/vim-airline'
call plug#end()
let g:clever_f_smart_case = 1
let g:tex_flavor='latex'
let g:sneak#s_next = 1
let g:sneak#use_ic_scs = 1
let g:vimtex_view_method='skim'
let g:vimtex_quickfix_mode=0
let g:UltiSnipsSnippetDirectories = ['~/vim/UltiSnips']
let g:UltiSnipsJumpForwardTrigger="<c-j>"
let g:UltiSnipsJumpBackwardTrigger="<c-k>"
nnoremap <localleader><leader> <C-u>
nnoremap <localleader><localleader> <C-d>
noremap ; :
noremap : ;
noremap - $
tnoremap ZZ q('no')<C-\><C-n>:q!<CR>
tnoremap ZQ q('no')<C-\><C-n>:q!<CR>
tnoremap ZS style_dir()<CR>
tnoremap ZX exit<CR>
nnoremap <localleader>m vipgq
nnoremap <leader>v :edit ~/.vimrc<cr>
nnoremap <leader>a ggVG
nnoremap <leader>t :tab split<cr>
nnoremap <leader>u :UltiSnipsEdit<cr>
nnoremap <leader>U <Cmd>call UltiSnips#RefreshSnippets()<CR>
nnoremap <Leader>O :ls!<CR>:b<localleader>
tnoremap <leader>O <C-w>:ls!<cr>:b<localleader>
tnoremap <F1> <C-\><C-n>
inoremap <silent> <Esc> <Esc>``
tnoremap <leader><leader> <C-w>w
nnoremap <leader><leader> <C-w>w
nnoremap <leader>1 <C-w>:b1<cr>

```

```

nnoremap <leader>2 <C-w>:b2<cr>
nnoremap <leader>3 <C-w>:b3<cr>
tnoremap <leader>1 <C-w>:b1<cr>
tnoremap <leader>2 <C-w>:b2<cr>
tnoremap <leader>3 <C-w>:b3<cr>

inoremap <F12> <C-x><C-o>
inoremap <F10> <C-x><C-k>
if $TERM_PROGRAM =~ "iTerm"
    let &t_SI = "\<Esc>]50;CursorShape=1\x7" " Vertical bar in insert mode
    let &t_EI = "\<Esc>]50;CursorShape=0\x7" " Block in normal mode
endif
" ref: https://hamberg.no/erlend/posts/2014-03-09-change-vim-cursor-in-iterm.html
set completeopt+=longest,menuone,noselect
let g:airline#extensions#tabline#enabled = 1
let g:airline#extensions#fzf#enabled = 1
let g:SuperTabDefaultCompletionType = "<C-X><C-O>"
set complete+=k
set dictionary=/usr/share/dict/words
nnoremap <Leader>b :Buffers<CR>
nnoremap <leader>f :Files<CR>
nnoremap <leader>d :EditVimf<cr>
nnoremap <Leader>r :Rg<CR>
nnoremap <Leader>/ :BLines<CR>
nnoremap <Leader>' :Marks<CR>
nnoremap <Leader>s :Snippets<CR>
highlight clear ALErrorSign
highlight clear ALEWarningSign
let g:ale_sign_error = ' '
let g:ale_sign_warning = '.'
let g:ale_completion_enabled = 1
highlight Pmenu guifg=Black guibg=cyan gui=bold
highlight PmenuSel gui=bold guifg=White guibg=blue
nnoremap <leader>n :ALENext<CR>
let g:slime_target = "vimterminal"
let g:slime_no_mappings = 1
let g:slime_vimterminal_config = { "vertical": 1 }
let g:slime_vimterminal_cmd = "R"
let g:slime_cell_delimiter = "```"

```

```

:nnoremap <C-c><C-c> <Plug>SlimeParagraphSend
autocmd FileType r,rmd nnoremap <CR> V<Plug>SlimeRegionSend<CR>
autocmd FileType r,rmd nnoremap <localleader>l <Plug>SlimeSendCell<CR>
autocmd FileType r,rmd xnoremap <CR> <Plug>SlimeRegionSend<CR>
nnoremap Q @@
" maps for R and RMD, space + letter. def as macros. stored in " ~/.viminfo
nnoremap <space>j @j      " j jump to next chunk
nnoremap <space>h @h      " h print head of object

nnoremap <space>p @p      " p print object

nnoremap <space>d @d      " d dim of object
nnoremap <space>s @s      " s structure of object
nnoremap <space>g @g      " g is <space>l then <space>j

```

3 .zshrc

```

export ZSH="$HOME/.oh-my-zsh"
export EDITOR="vim"
ZSH_THEME="muse"
# Uncomment the following line to display red dots whilst waiting for completion.
# You can also set it to another string to have that shown instead of the default red dots.
# e.g. COMPLETION_WAITING_DOTS="%F{yellow}waiting...%f"
# Caution: this setting can cause issues with multiline prompts in zsh < 5.7.1 (see #5765)
COMPLETION_WAITING_DOTS="true"

# Uncomment the following line if you want to disable marking untracked files
# under VCS as dirty. This makes repository status check for large repositories
# much, much faster.
DISABLE_UNTRACKED_FILES_DIRTY="true"

plugins=(zsh-autosuggestions z jump git pass vi-mode scd common-aliases you-should-use)

source $ZSH/oh-my-zsh.sh

Preferred editor for local and remote sessions
if [[ -n $SSH_CONNECTION ]]; then

```

```

    export EDITOR='vim'
else
    export EDITOR='mvim'
fi

Compilation flags
export ARCHFLAGS="-arch x86_64"

bindkey -v
alias py='python'
alias nt='nvim'
alias mm='mutt'
alias sk='open -a Skim'
alias vc='vim ~/.vimrc'
alias nc='nvim-qt ~/.config/nvim/init.lua'
alias vz='vim ~/.zshrc'
alias sz='source ~/.zshrc'
alias vm='vim ~/.muttrc'
alias dt='cd ~/Dropbox/dotfiles'
alias p2='enscript -C -2 -r -j --media=Letter'
alias p1='enscript -j --media=Letter'
alias yr="yabai --restart-service"
alias lt='eza -lrFha -sold'
alias rr='ranger'
alias mvim="/Applications/MacVim.app/Contents/bin/mvim"
alias tp='trash-put -v'
alias rm='echo "This is not the command you are looking for."; false'
alias s='scd'
alias ZZ='exit'
cdpath=($HOME/Dropbox/prj $HOME/Dropbox/sbx $HOME/Dropbox/work )
export PATH=".:$PATH:$HOME/bin"
mma () { /Applications/Mathematica.app/Contents/MacOS/WolframKernel -script $1 }
function gz() {
    git add .
    git commit -a -m "$1"
    git push
}

export TEXINPUTS='./Users/zenn/prj/images:/Users/zenn/prj:'

```

```
export PATH="/opt/homebrew/bin:$PATH"
export PATH="/opt/homebrew/sbin:$PATH"

setopt interactivecomments
#source ~/.iterm2_shell_integration.zsh

export vpc_id="vpc-14814b73"
export subnet_id="subnet-f02c90ab"
export ami_id="ami-014d05e6b24240371"
export key_name="power1_app"
export instance_type="t2.micro"
export storage_size="30"
export ami_id="ami-014d05e6b24240371"
export security_grp='sg-02fcdde25246d9fcd'
export static_ip='13.56.106.160'
if type rg &> /dev/null; then
    export FZF_DEFAULT_COMMAND='rg --hidden -l ""'
    export FZF_DEFAULT_OPTS='-m --height 50% --border'
fi
ZSH_AUTOSUGGEST_HIGHLIGHT_STYLE="fg=011,bg=black,bold,underline"
```