Neovim Lua-scriptable modal editor

CONCEPTS

Neovim keeps Vim's modal editing (see the vim sheet). This sheet covers what Neovim adds: Lua config, built-in LSP, terminal, health checks.

Config lives in ~/.config/nvim/init.lua (init.vim also works). Lua modules go in lua/ next to it and load with require('name').

Server binary installed separately
↓ defines
vim.lsp.config cmd, filetypes, roots
↓ defines
vim.lsp.enable starts on matching buffer
↓ attaches
Defaults + LspAttach gr* keys, K, diagnostics
↓ gives you
LSP in Neovim: no plugin needed for the client

Neovim ships only the LSP client. Language servers (lua-language-server, pyright, gopls...) are separate programs on your PATH.

DIFFERENCES FROM VIM

`Y` Yank to end of line

`g` › `c` › `c`
Toggle line comment

`g` › `c` › *<motion>*
Toggle comment over motion

`g` › `O`
Outline of symbols / headings

`]` › `d` / `[` › `d`
Next / previous diagnostic

`]` › `q` / `[` › `q`
Next / previous quickfix item

`]` › `b` / `[` › `b`
Next / previous buffer

`*` / `#`
Search selected text (visual mode)

`a` › `n` / `i` › `n`
Grow visual selection by node

LUA CONFIG

`:lua` › *<code>*
Run a Lua expression

`:=` › *<expr>* Print a Lua value

`:source` › `%`
Reload the current file

`:messages`
Show earlier messages and errors

`:set` › `<opt>?`
Show an option's value

`:Inspect`
Highlight groups under cursor

`:help` › *<topic>*
Open help for a topic

`:help` › `lua-guide`
Lua in Neovim tutorial

Lua equivalents

Vimscript	Lua
`set number`	`vim.o.number = true`
`let g:x = 1`	`vim.g.x = 1`
`nnoremap a b`	`vim.keymap.set()`
`autocmd ...`	`nvim_create_autocmd()`
`command! ...`	`nvim_create_user_command()`

LSP

`K` Hover documentation

`g` › `r` › `n` Rename symbol

`g` › `r` › `a` Code action

`g` › `r` › `r` List references

`g` › `r` › `i`
Go to implementation

`g` › `r` › `t` Go to type definition

`Ctrl` + `]` Go to definition

`Ctrl` + `S`
Signature help (insert mode)

`Ctrl` + `X` › `Ctrl` + `O`
LSP completion (insert mode)

`:lsp` › `enable` › *<name>*
Start a configured server

`:checkhealth` › `vim.lsp`
Check LSP clients and logs

`:lua` › `vim.lsp.buf.format()`
Format the buffer

`:lua` › `vim.lsp.buf.definition()`
Go to definition

LSP (cont.)

The gr* keys exist only after a server attaches. Without one, g r just waits for the next key.

DIAGNOSTICS

`Ctrl` + `W` › `d`
Show diagnostic in float

TERMINAL

`:terminal`
Open a shell in a buffer

`:terminal` › *<cmd>*
Run a command in a terminal buffer

`i` / `a`
Enter terminal mode from normal

`Ctrl` + `\` › `Ctrl` + `N`
Back to normal mode

`Ctrl` + `\` › `Ctrl` + `O`
One normal command, then back

`:split` › `|` › `terminal`
Terminal in a split

`:tnoremap` › *<Esc>* › *<C-\><C-n>*
Make Esc leave terminal mode

In terminal mode every key goes to the program except Ctrl+\. Use :terminal instead of :! for interactive commands.

WINDOWS & BUFFERS

`Ctrl` + `W` › `s` / `Ctrl` + `W` › `v`
Split horizontally / vertically

`Ctrl` + `W` › `h` / `j` / `k` / `l`
Move between windows

`Ctrl` + `W` › `q` Close window

`Ctrl` + `W` › `o`
Keep only this window

PLUGINS & HEALTH

`:checkhealth`
Run all health checks

`nvim` › `--clean`
Start without config or plugins