CERN

Ditching Vim for Kakoune

CERN IT Lightning Talks: session #24

Robert Vasek, CERN

Esc

Enter
Shift

POV:
You opened Vim for the first time

Google

how to quit

- how to quit **vim**
- how to quit **smoking**
- how to quit **vaping**
- how to quit **alcohol**
- how to quit **a job**

turniphat · 6 days ago
I first struggled with exiting vim 26 years ago.
177 Reply Share Report Save Follow

mashpotatodick · 6 days ago
Keep trying. I'm sure you'll find your way out one day
182 Reply Share Report Save Follow

Kakoune!

- Vim-inspired modal text editor
- Multi-selection
- Noun → verb: first select, then execute
- Sane defaults
- Discoverability
- Server-client architecture
- Integrate with external tools via piping, inlining output
- Highly extensible
- And much more...

Fight!

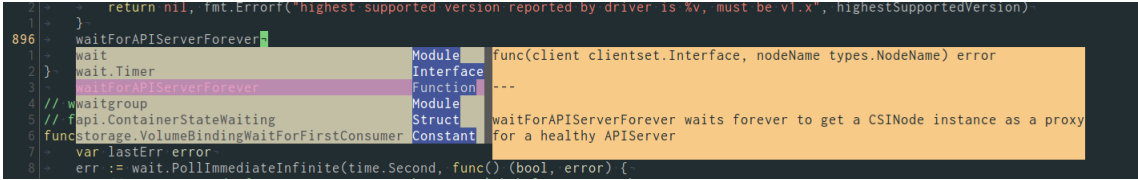
Action	Kakoune	Vim
Go to bottom	gj	G
Go to top	gk	gg
Go to last buffer change	g.	‘.
Delete str in next paragraph	]p + s + foo + d	v} + :<’,’>s/foo//
Base64 str in next paragraph	]p + s + foo + | + base64	???
Delete 5 words	5Wd	5dw

- Demo time! `https://kakoune.org/why-kakoune/why-kakoune.html`

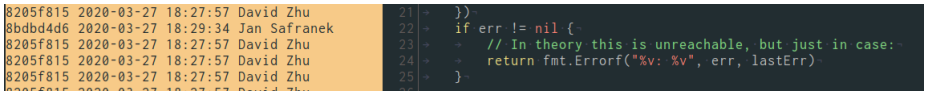
LSP plugin

lsp
a: show code actions for current position
c: show language server capabilities
d: go to definition
e: list project errors, info, hints and warnings
f: format buffer
h: show info for current position
H: show info for current position in a scratch buffer
i: go to implementation
j: list outgoing call for function at cursor
k: list incoming call for function at cursor
l: apply a code lens from the current selection
o: search project symbols
n: find next error
p: find previous error
q: exit session
r: list symbol references
R: rename symbol
s: jump to document symbol
S: list document symbols
v: select inner/outer nodes
V: select inner/outer nodes (re-use previous call)
y: go to type definition
[: show hover for previous symbol
]: show hover for next symbol
{: goto previous symbol
}: goto next symbol
9: show hover for previous function
0: show hover for next function
(: goto previous function
): goto next function
&: lsp-highlight-references
=: format selections
csi_plugin.go 1:1 enter key - client0@[685389]

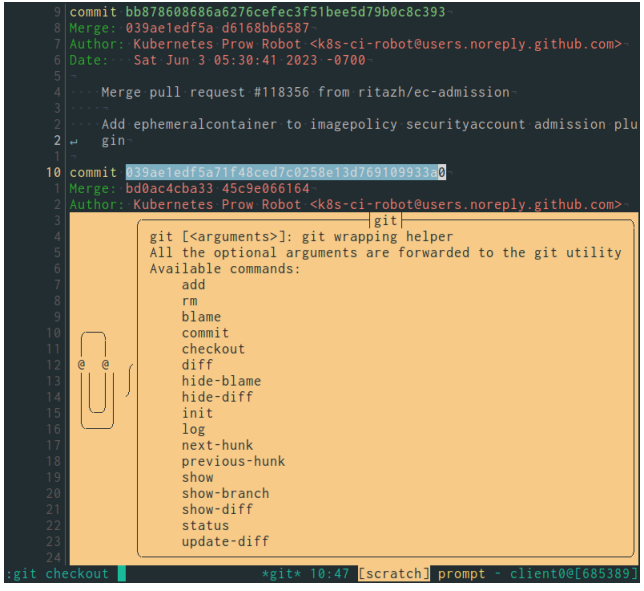
LSP plugin


return nil, fmt.Errorf("highest supported version reported by driver is %v, must be v1.x", highestSupportedVersion)
}
waitForAPIServerForever
wait
wait.Timer
waitForAPIServerForever
waitgroup
api.ContainerStateWaiting
storage.VolumeBindingWaitForFirstConsumer
Module
Interface
Function
Module
Struct
Constant
func(client clientset.Interface, nodeName types.NodeName) error
---
waitForAPIServerForever waits forever to get a CSINode instance as a proxy
for a healthy APIServer
var lastErr error
err := wait.PollImmediateInfinite(time.Second, func() (bool, error) {

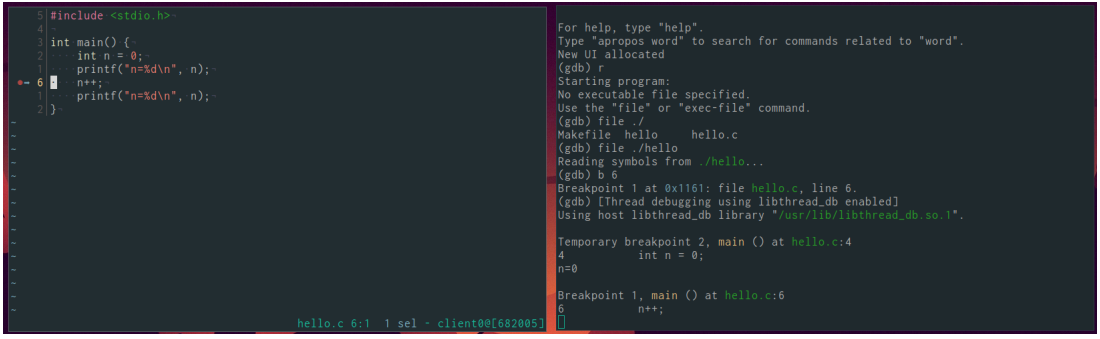
Git plugin


8205f815 2020-03-27 18:27:57 David Zhu
8bdbd4d6 2020-03-27 18:29:34 Jan Safranek
8205f815 2020-03-27 18:27:57 David Zhu
8205f815 2020-03-27 18:27:57 David Zhu
8205f815 2020-03-27 18:27:57 David Zhu
})
if err != nil {
// In theory this is unreachable, but just in case:
return fmt.Errorf("%v: %v", err, lastErr)
}

Git plugin


commit bb878608686a6276cefec3f51bee5d79b0c8c393
Merge: 039ae1edf5a d6168bb6587
Author: Kubernetes Prow Robot <k8s-ci-robot@users.noreply.github.com>
Date: Sat Jun 3 05:30:41 2023 -0700
Merge pull request #118356 from ritazh/ec-admission
Add ephemeralcontainer to imagepolicy securityaccount admission plu
gin
commit 039ae1edf5a71f48ced7c0258e13d769109933a0
Merge: bd0ac4cba33 45c9e066164
Author: Kubernetes Prow Robot <k8s-ci-robot@users.noreply.github.com>
git
git [<arguments>]: git wrapping helper
All the optional arguments are forwarded to the git utility
Available commands:
add
rm
blame
commit
checkout
diff
hide-blame
hide-diff
init
log
next-hunk
previous-hunk
show
show-branch
show-diff
status
update-diff
:git checkout
git 10:47 [scratch] prompt - client0@[685389]

GDB plugin


5 #include <stdio.h>
4
3 int main() {
2 int n = 0;
1 printf("n=%d\n", n);
6 n++;
1 printf("n=%d\n", n);
2 }
hello.c 6:1 1 sel - client0@[682005]
For help, type "help".
Type "apropos word" to search for commands related to "word".
New UI allocated
(gdb) r
Starting program:
No executable file specified.
Use the "file" or "exec-file" command.
(gdb) file ./
Makefile hello hello.c
(gdb) file ./hello
Reading symbols from ./hello...
(gdb) b 6
Breakpoint 1 at 0x1161: file hello.c, line 6.
(gdb) [Thread debugging using libthread_db enabled]
Using host libthread_db library "/usr/lib/libthread_db.so.1".
Temporary breakpoint 2, main () at hello.c:4
4 int n = 0;
n=0
Breakpoint 1, main () at hello.c:6
6 n++;

Conclusion

- https://kakoune.org/
- https://github.com/mawww/kakoune
- Available in package repositories in all major distros!
- Hope you try it out!