

# Introduction to Linux Systems

## VIM and tmux

*Lab3*: Install vim plugins and work with quickfix window

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# Lab

- Install plugin manager “vim-plug” and gcc
- Use vim-plug to install plugins
- Work with quickfix window



# Install packages

$ sudo apt update

$ sudo apt upgrade

$ sudo apt install git curl vim-gtk3

* Install gcc

$ sudo apt install build-essential

$ gcc --version



# Install plugin manager “vim-plug”

$ curl -fLo ~/.vim/autoload/plug.vim --create-dirs https://raw.githubusercontent.com/junegunn/vim-plug/master/plug.vim

Ref: junegunn/vim-plug



# Use vim-plug to install plugins

1. Open .vimrc to copy the content from the files

2. Edit the .vimrc file
$ vim ~/.vimrc
Paste the content
:wq

3. Install Plugins
$ vim ~/.vimrc
:PlugInstall (等候安裝完成)
:qa

shll command

command-line mode in vim

.vimrc
ZONG55 SEP 26TH, 2022 3 0 NEVER ADD COMMENT
SHARE TWEET
text 0.48 KB | None | 0 0 copy raw download clone embed print edit delete

```
set timeoutlen=1000 ttimeoutlen=0
call plug#begin('~/.vim/plugged')
Plug 'dense-analysis/ale'
let g:ale_echo_cursor = 0
let g:ale_set_loclist = 0
let g:ale_set_quickfix = 1
Plug 'maralla/completor.vim'
let g:completor_clang_binary = '/usr/bin/clang'
inoremap <expr> <TAB> pumvisible() ?"\<C-n>": "\<TAB>"
inoremap <expr> <S-TAB> pumvisible() ?"\<C-p>": "\<S-TAB>"
Plug 'vim-airline/vim-airline'
Plug 'vim-airline/vim-airline-themes'
let g:airline_theme = 'ouo'
call plug#end()
```

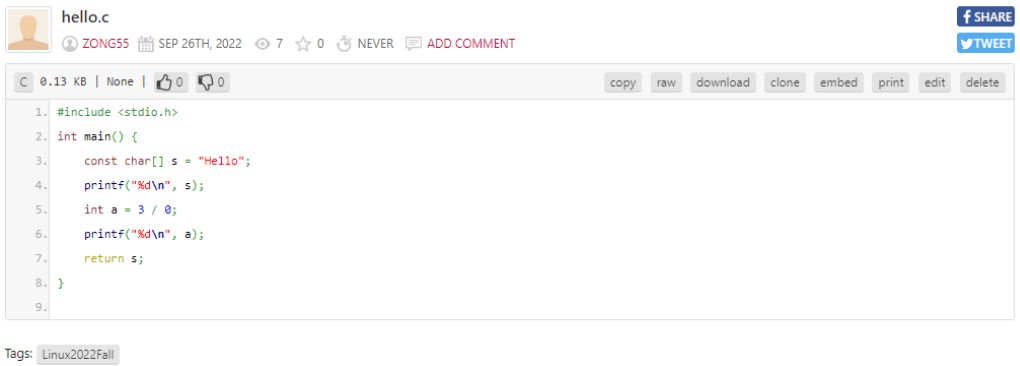


# Write a C program

Open hello.c to copy the content from the files

$ vim hello.c

Paste the content





# Work with quickfix window

:copen

```
:copen " Open the quickfix window :ccl " Close it
:cw " Open it if there are "errors", close it otherwise (some people prefer this)
:cn " Go to the next error in the window
:cp " Go to the previous error in the window
:cnf " Go to the first error in the next file
:.cc " Go to error under cursor (if cursor is in quickfix window)
```

:q

:cw


Use j, k to move in quickfix window then use “enter”

Use ctrl-w w to switch between two windows

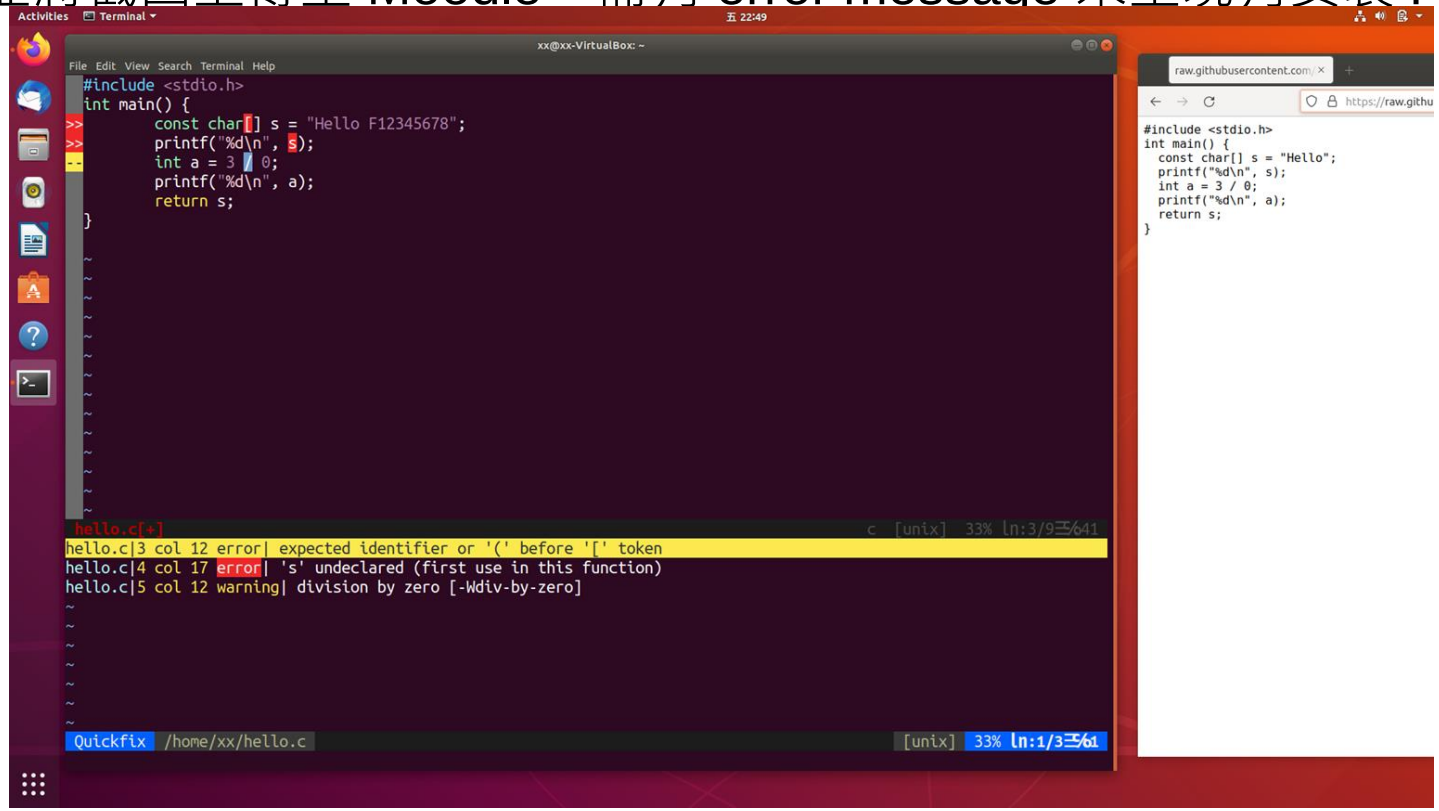
Fix all errors and warnings then use “:cw”

https://stackoverflow.com/a/1747286/6734174



# Demo (submit to moodle)

用 vim 開啟本 lab3 提供的 hello.c 並打開 quickfix window，
將圖中的 "Hello" 後方加上你的學號，例如 "Hello F12345678"
並將截圖上傳至 Moodle。需有 error message 來呈現有安裝 Plugins。





# Compile and execute the C program (Optional)

:! gcc % && ./a.out

```
Hello F12345678
3

Press ENTER or type command to continue
```

Your student ID



# QUESTIONS