

18342010 陈星辉

实验环境:

ubuntu20.04

```
drice@Bleach
OS: Ubuntu 20.04 focal
Kernel: x86_64 Linux 5.4.0-37-generic
Uptime: 3h 34m
Packages: 1886
Shell: bash 5.0.16
Resolution: 1600x900
DE: Xfce
WM: Xfwm4
WM Theme: Greybird
GTK Theme: Greybird [GTK2]
Icon Theme: elementary-xfce-dark
Font: Noto Sans 9
Disk: 82G / 221G (38%)
CPU: Intel Core i7-8750H @ 12x 4.1GHz [54.0°C]
GPU: GeForce GTX 1050 Ti
RAM: 2759MiB / 7832MiB
```

## 1.安装vscode

在官网下载包到本地, 进行安装

## 2.安装golang

ubuntu下可以直接使用apt install

```
drice@Bleach:~$ sudo apt-get install golang-go
```

完成后在命令行输入go, 结果如下

```
drice@Bleach:~$ go
Go is a tool for managing Go source code.

Usage:

    go <command> [arguments]

The commands are:

    bug          start a bug report
    build        compile packages and dependencies
    clean        remove object files and cached files
    doc          show documentation for package or symbol
    env          print Go environment information
    fix          update packages to use new APIs
    fmt          gofmt (reformat) package sources
    generate      generate Go files by processing source
    get          add dependencies to current module and install them
    install      compile and install packages and dependencies
    list         list packages or modules
    mod          module maintenance
    run          compile and run Go program
    test         test packages
    tool         run specified go tool
    version      print Go version
    vet          report likely mistakes in packages
```

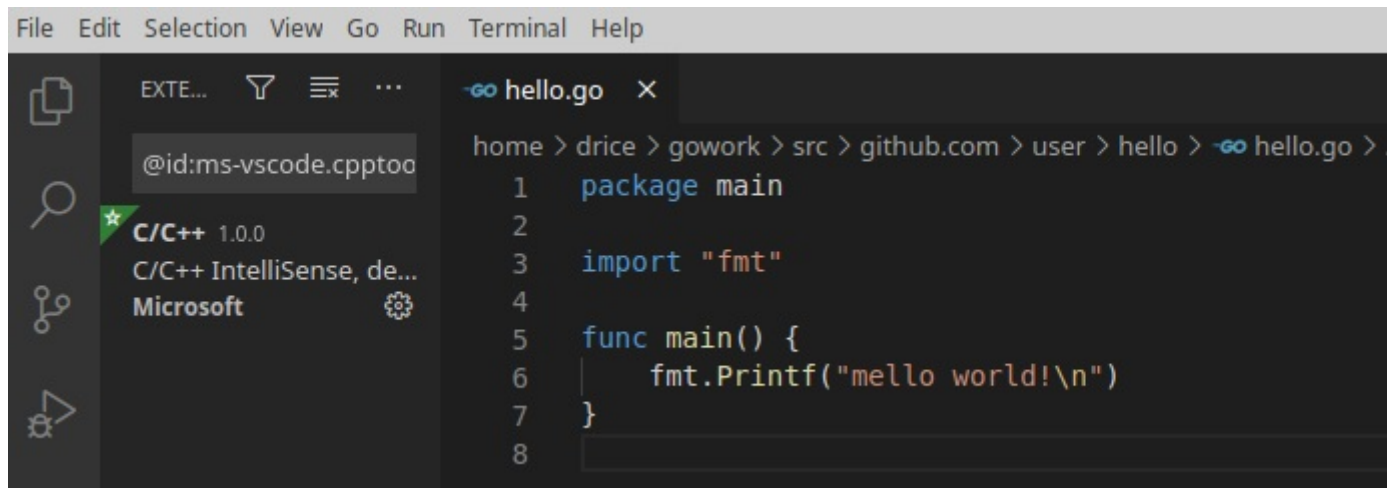
### 3.设置环境变量

按照老师给出的指令逐条复制运行, 完成后输入go env检查

```
GOBIN=""
GOCACHE="/home/drice/.cache/go-build"
GOENV="/home/drice/.config/go/env"
GOEXE=""
GOFLAGS=""
GOHOSTARCH="amd64"
GOHOSTOS="linux"
GONOPROXY=""
GONOSUMDB=""
GOOS="linux"
GOPATH="/home/drice/gowork"
GOPRIVATE=""
GOPROXY="https://proxy.golang.org,direct"
GOROOT="/usr/lib/go-1.13"
```

### 3.5.创建运行hello world

代码:



```
File Edit Selection View Go Run Terminal Help

EXTE... ④ ③ ② ①

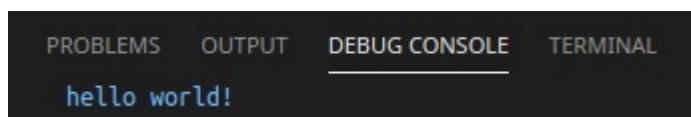
@id:ms-vscode.cpptool

★ C/C++ 1.0.0
C/C++ IntelliSense, de...
Microsoft ⚙️

hello.go x

home > drice > gowork > src > github.com > user > hello > -go hello.go > .
1 package main
2
3 import "fmt"
4
5 func main() {
6     fmt.Printf("hello world!\n")
7 }
8
```

运行结果:



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

hello world!
```

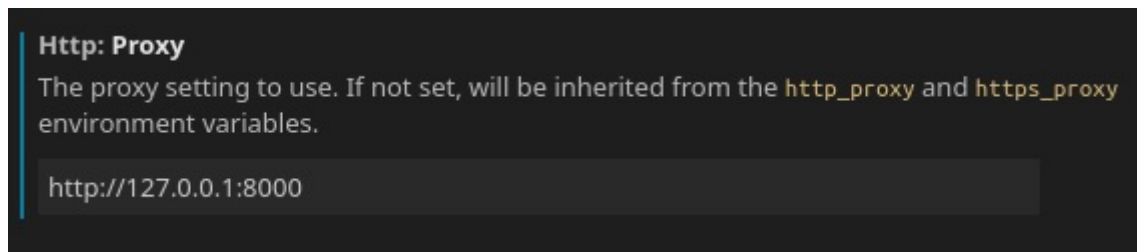
#### 4.安装git

本机已有git, 跳过

#### 4.5.安装go的一些工具

由于众所周知的原因, vscode无法正常下载国外的一些扩展插件。但是挂上代理之后就可以正常下载了。

挂代理:



```
Http: Proxy
The proxy setting to use. If not set, will be inherited from the http_proxy and https_proxy
environment variables.

http://127.0.0.1:8000
```

一键安装:

```

Tools environment: GOPATH=/home/drice/go
Installing 16 tools at /home/drice/go/bin in module mode.
gocode
gopkgs
go-symbols
guru
gorename
gotests
gomodifytags
impl
fillstruct
goplay
godoc
dlv
gocode-gomod
godef
goreturns
golint

Installing github.com/mdempsky/gocode (/home/drice/go/bin/gocode) SUCCEEDED
Installing github.com/uudashr/gopkgs/v2/cmd/gopkgs (/home/drice/go/bin/gopkgs) SUC
Installing github.com/acroca/go-symbols (/home/drice/go/bin/go-symbols) SUCCEEDED
Installing golang.org/x/tools/cmd/guru (/home/drice/go/bin/guru) SUCCEEDED
Installing golang.org/x/tools/cmd/gorename (/home/drice/go/bin/gorename) SUCCEEDED
Installing github.com/cweill/gotests/... (/home/drice/go/bin/gotests) SUCCEEDED
Installing github.com/fatih/gomodifytags (/home/drice/go/bin/gomodifytags) SUCCEED
Installing github.com/josharian/impl (/home/drice/go/bin/impl) SUCCEEDED
Installing github.com/davidrjenni/reftools/cmd/fillstruct (/home/drice/go/bin/fill
Installing github.com/haya14busa/goplay/cmd/goplay (/home/drice/go/bin/goplay) SUC
Installing github.com/godoc/godoc (/home/drice/go/bin/godoc) SUCCEEDED
Installing github.com/go-delve/delve/cmd/dlv (/home/drice/go/bin/dlv) SUCCEEDED
Installing github.com/stamblerre/gocode (/home/drice/go/bin/gocode-gomod) SUCCEED
Installing github.com/rogpeppe/godef (/home/drice/go/bin/godef) SUCCEEDED
Installing github.com/sqs/goreturns (/home/drice/go/bin/goreturns) SUCCEEDED
Installing golang.org/x/lint/golint (/home/drice/go/bin/golint) SUCCEEDED

All tools successfully installed. You are ready to Go :).
|

```

## 5.安装go tour

由于可以使用<https://tour.go-zh.org/list>在线阅读go tour, 因此并没有选择安装到本地。

## 6.我的第一个包和测试

测试完毕

```

drice@Bleach:~/gowork/src/github.com/user/hello$ go install
drice@Bleach:~/gowork/src/github.com/user/hello$ hello
hello world!

```