



用Sublime编译Go代码 -Windows版



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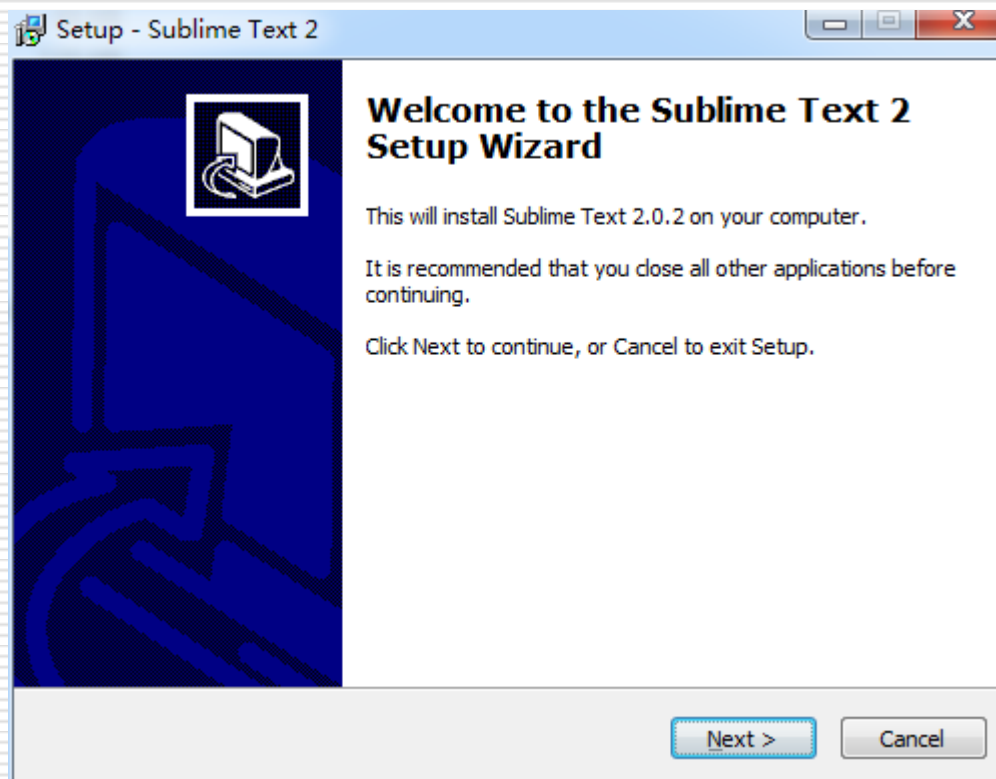
1.8 使用SublimeGDB调试Go代码

1.1 下载Sublime

- 下载URL : <http://pan.baidu.com/s/1dDIrLNN>
- 版本是 : Sublime Text 2.0.2 x64 Setup.exe
- 也可去官网 (<http://www.sublimetext.com/>) 下载

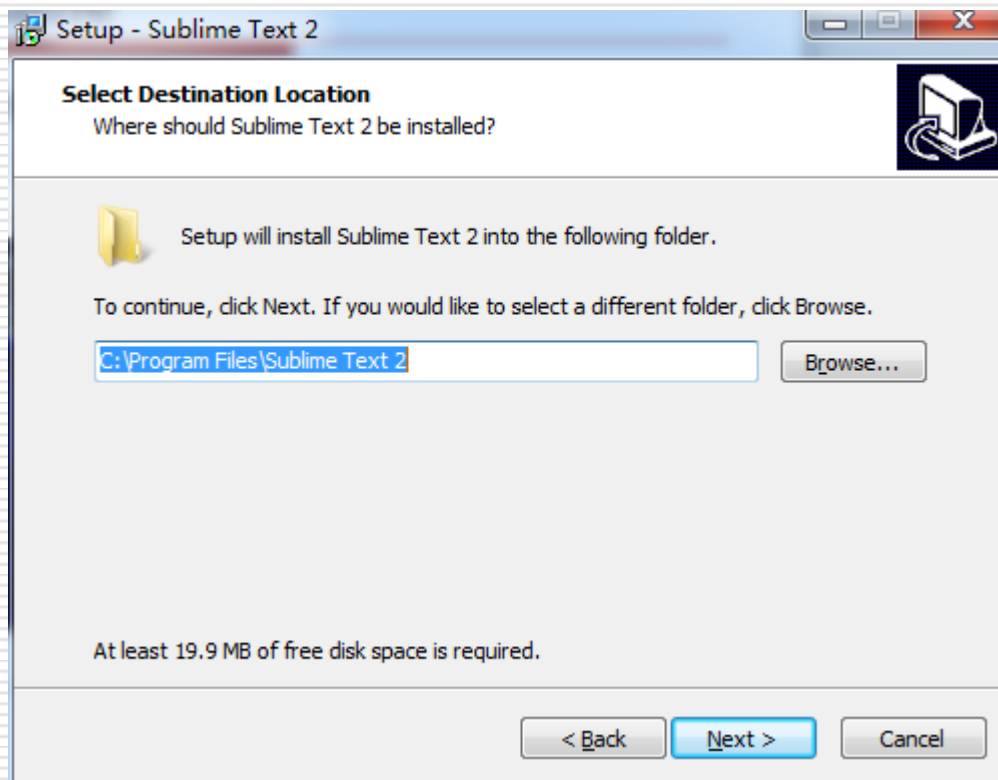
1.2 安装Sublime

- ❑ 双击Sublime Text 2.0.2 x64 Setup.exe 安装
 - 点击Next，进入下一步



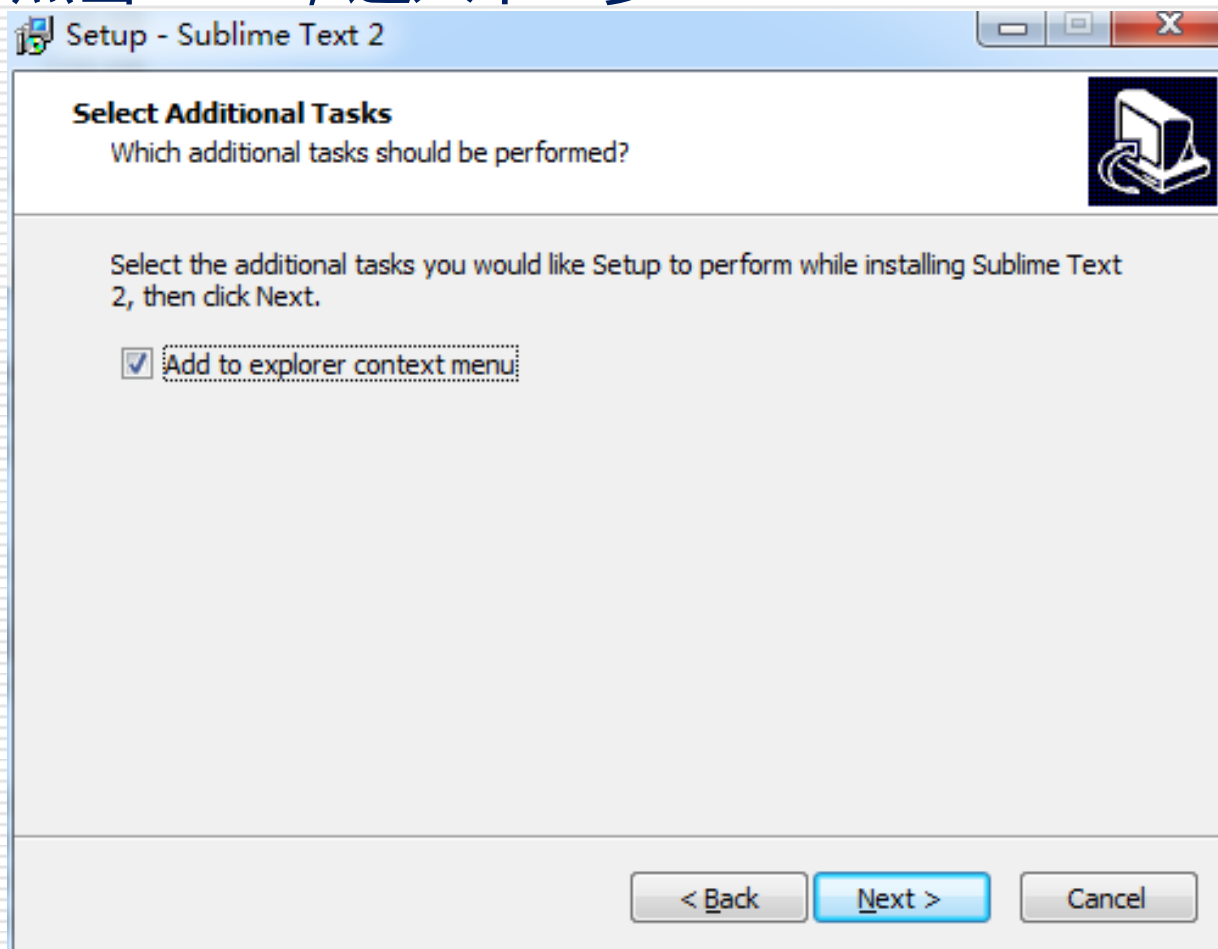
1.2 安装Sublime(续)

- 点击Browse...按钮设置安装路径，这里不变
 - 点击Next，进入下一步



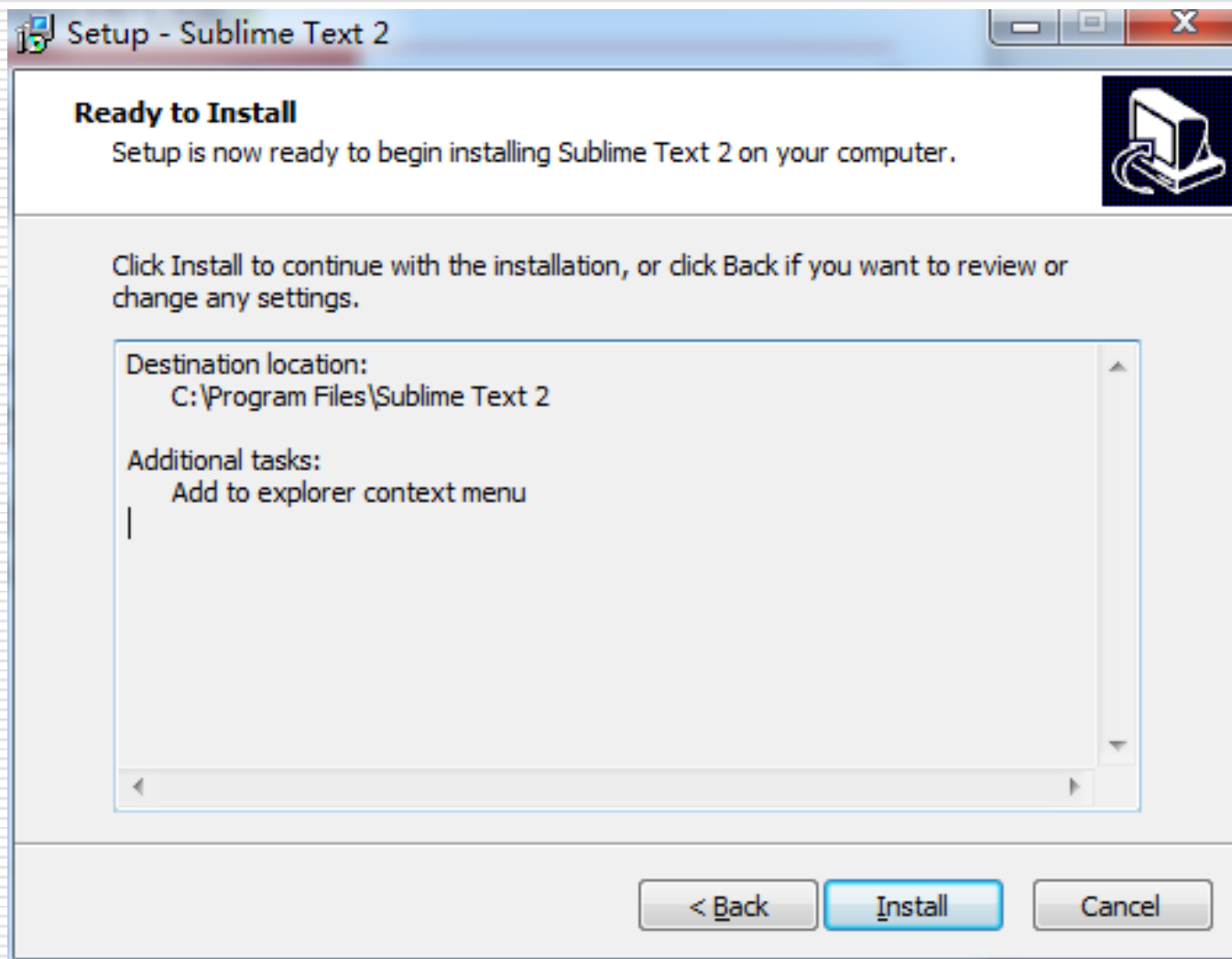
1.2 安装Sublime(续)

- 勾选Add to explorer context menu，这样可以在文件名上通过右键菜单，选择Sublime Text打开
- 点击Next，进入下一步



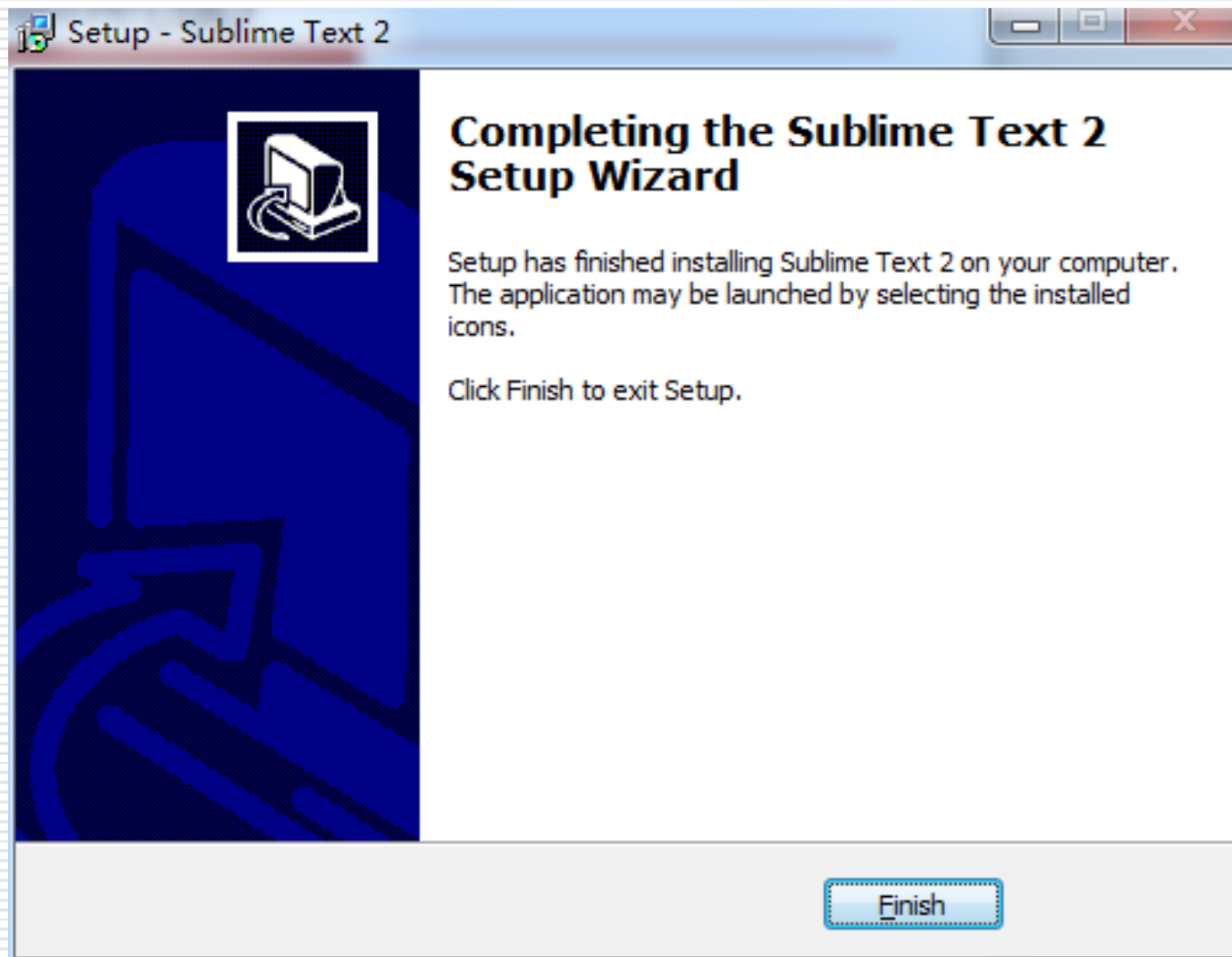
1.2 安装Sublime(续)

□ 点击Install，开始安装



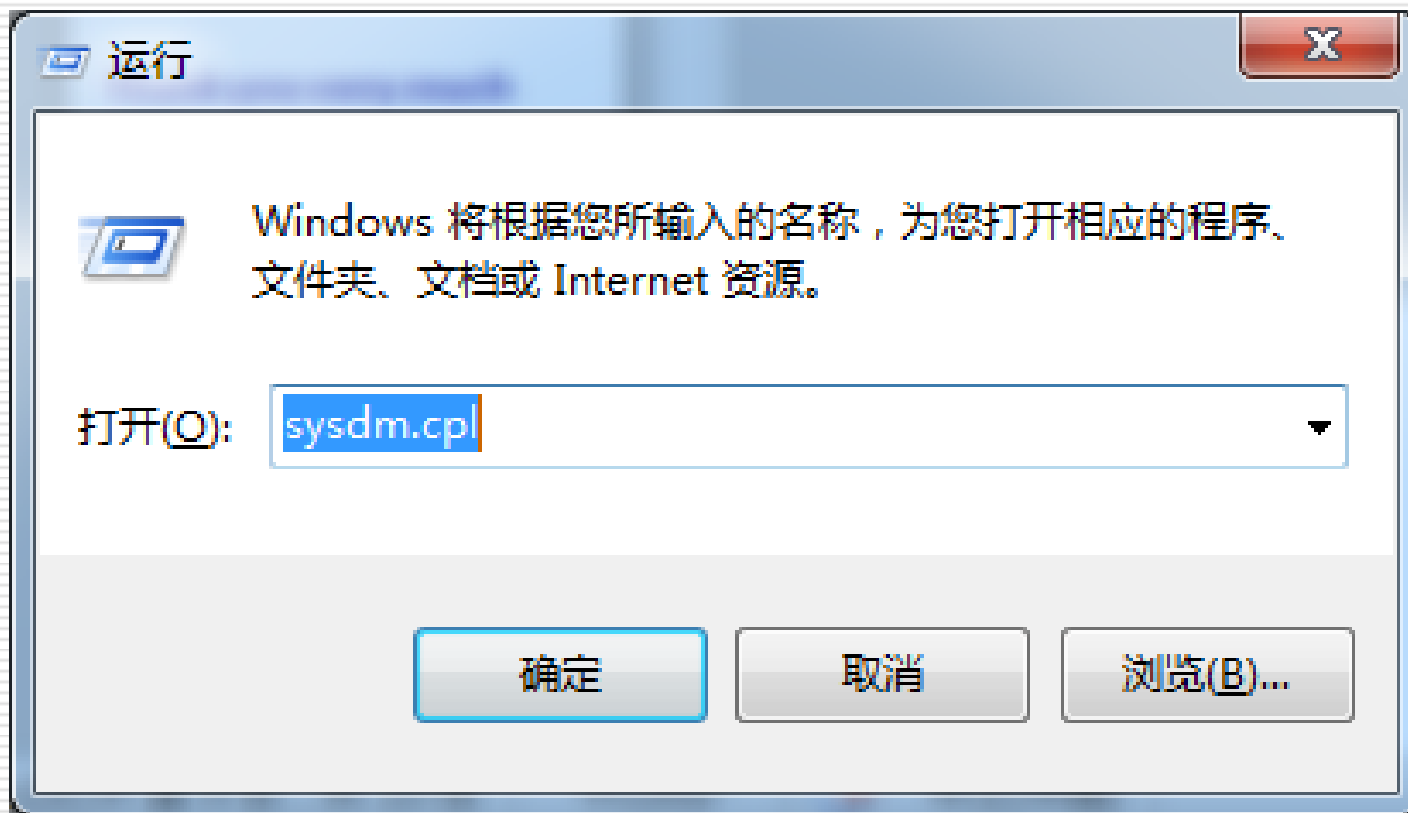
1.2 安装Sublime(续)

- ❑ 点击Finish，完成安装。从开始菜单找到Sublime Text 2点击即可打开



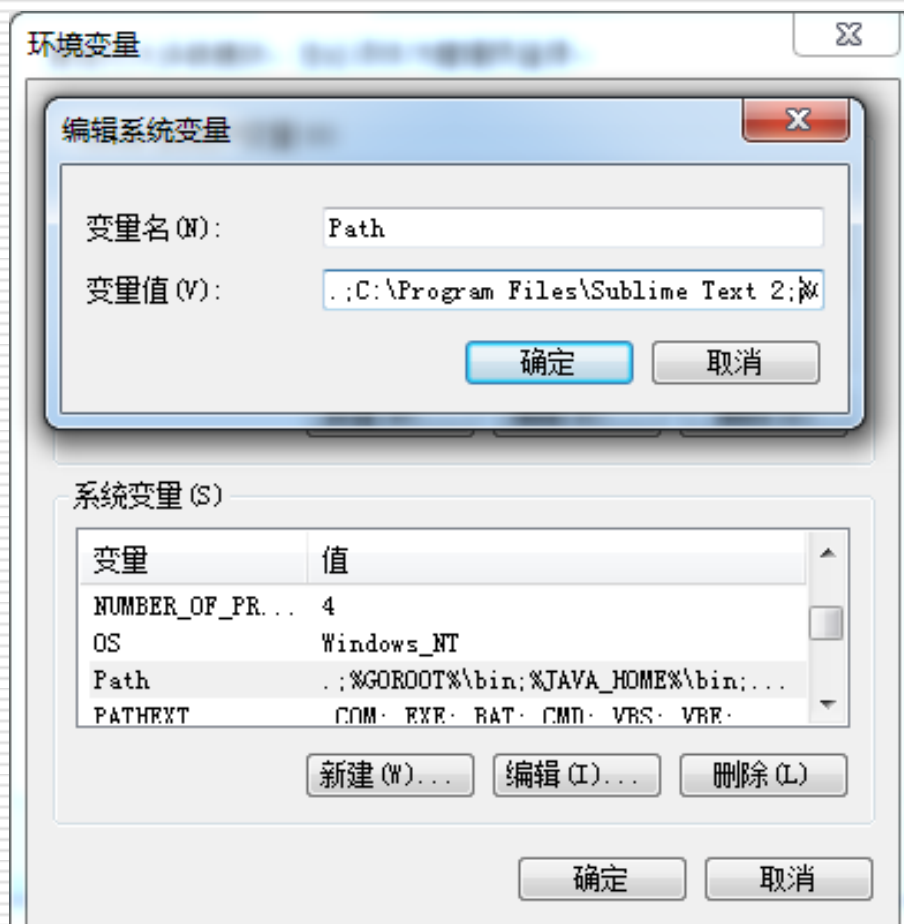
1.3 配置Sublime

- ❑ 添加Sublime Text到环境变量，这样可实现用命令打开Sublime Text
- ❑ 按Win+R 组合键，在下图中输入sysdm.cpl打开“系统属性”对话框



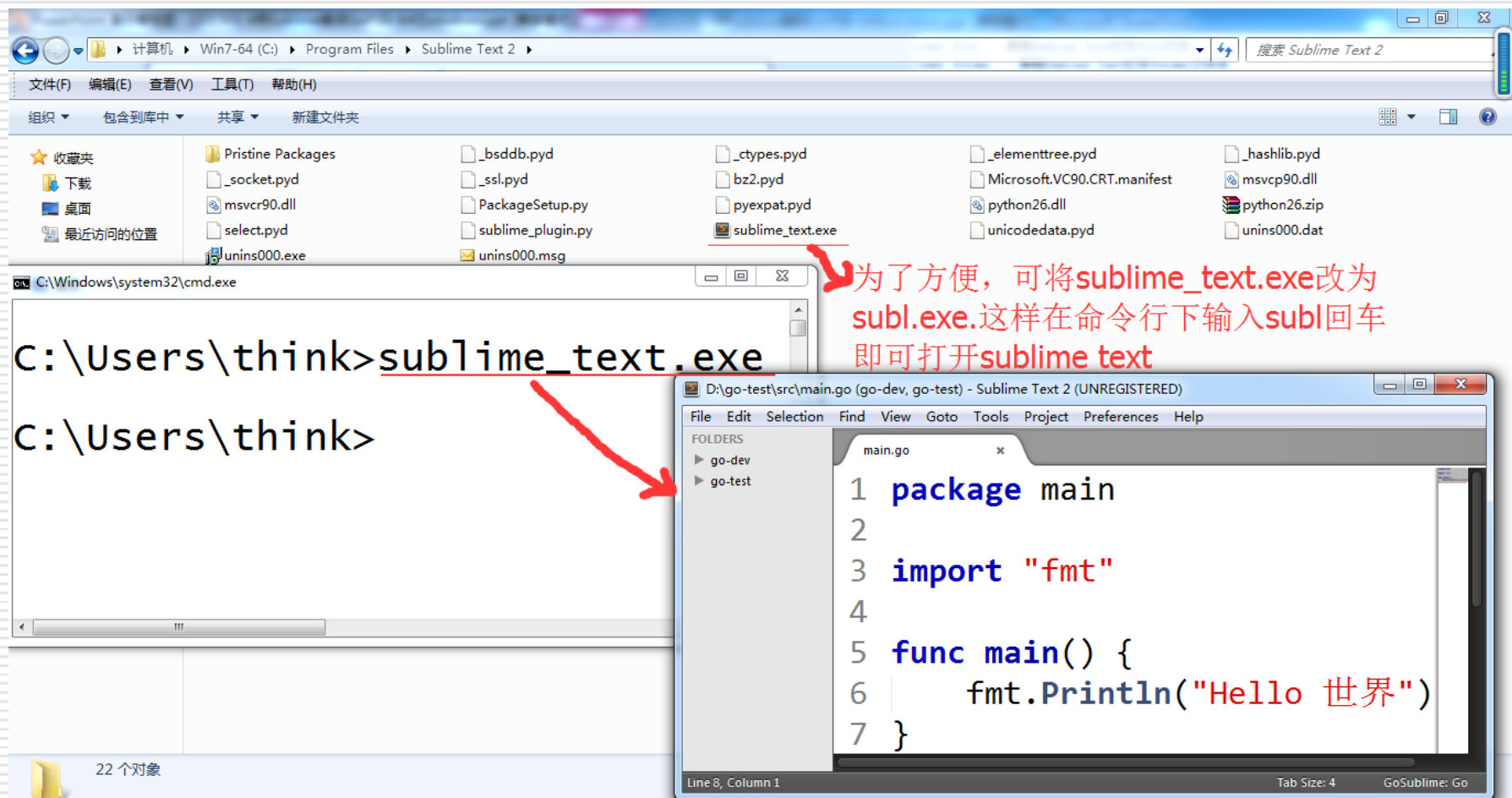
1.3 配置Sublime(续)

- ❑ 点击【高级】面板，点击其中的【环境变量】按钮，编辑Path，增加Sublime的安装目录



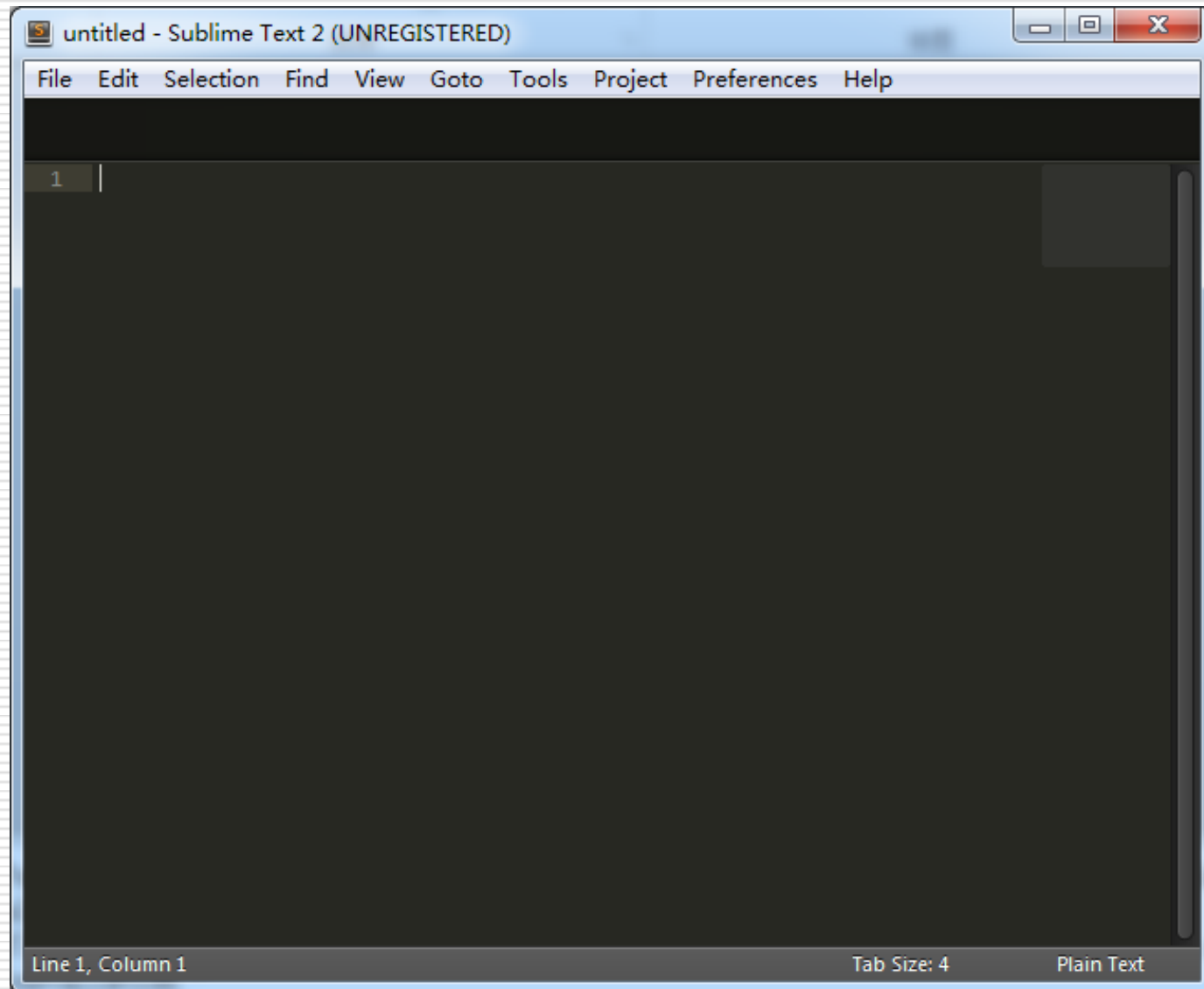
1.3 配置Sublime(续)

- ❑ 按Win+R 组合键，输入CMD，按回车打开命令行
- ❑ 输入 `sublime_text` 回车即可打开Sublime



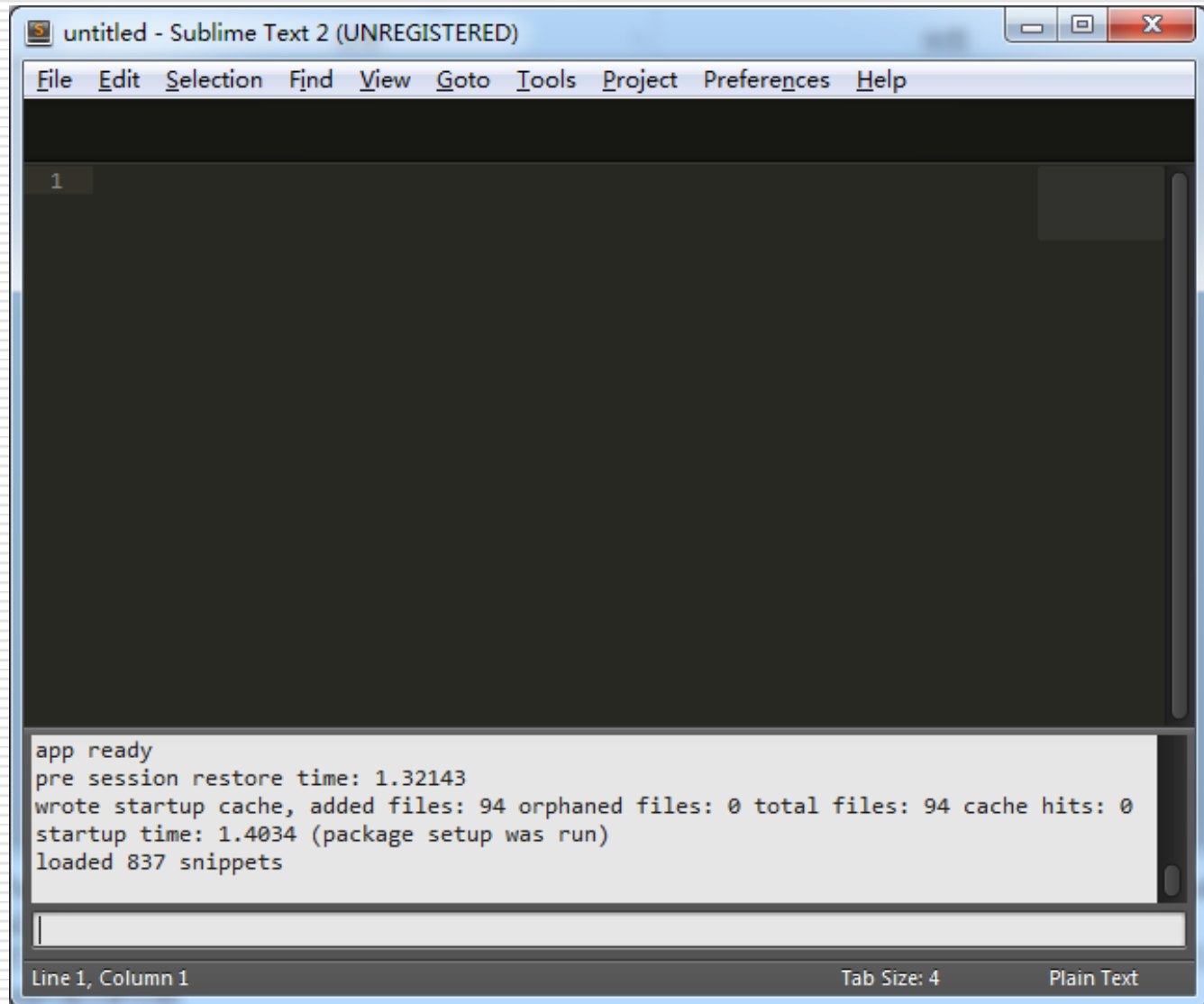
1.4 安装插件管理器Package Control

□ 打开Sublime Text:



1.4 安装插件管理器Package Control(续)

- 按下 **Ctrl+`**，打开命令行(注: ` 键位于ESC和TAB之间)



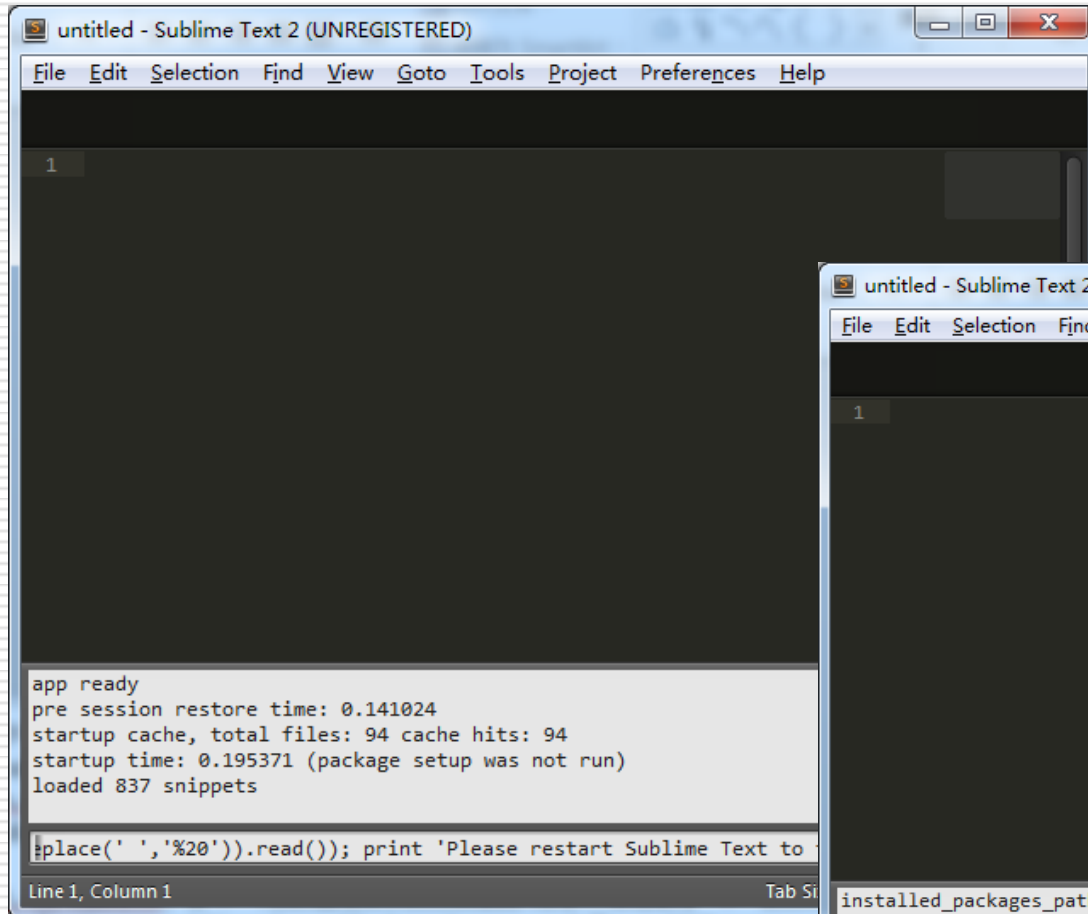
1.4 安装插件管理器Package Control(续)

□ 将下面一小段代码拷贝进命令行中，按回车。

■ `import urllib2,os; pf='Package
Control.sublime-package';
ipp=sublime.installed_packages_path();
os.makedirs(ipp) if not os.path.exists(ipp) else
None;
urllib2.install_opener(urllib2.build_opener(urllib
2.ProxyHandler()));
open(os.path.join(ipp,pf),'wb').write(urllib2.urlo
pen('http://sublime.wbond.net/'+pf.replace(''
, '%20')).read()); print 'Please restart Sublime
Text to finish installation'`

1.4 安装插件管理器Package Control(续)

□ 拷贝后及成功安装的状态信息



untitled - Sublime Text 2 (UNREGISTERED)

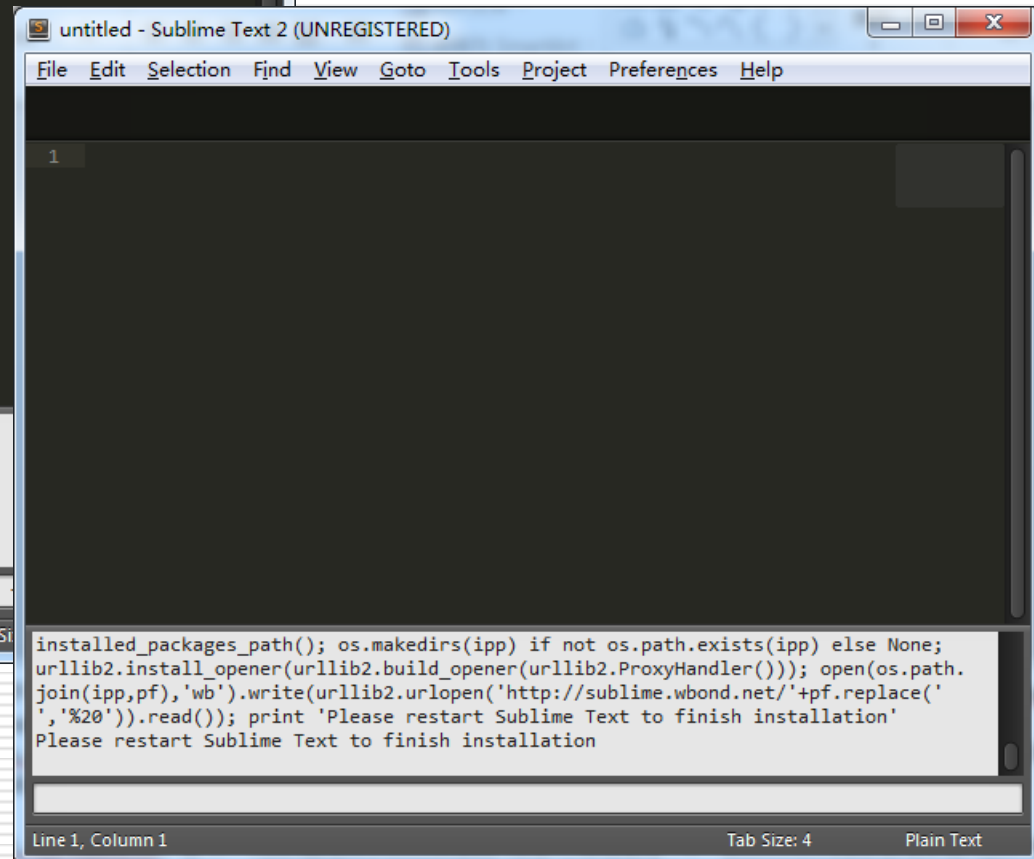
File Edit Selection Find View Goto Tools Project Preferences Help

1

```
app ready
pre session restore time: 0.141024
startup cache, total files: 94 cache hits: 94
startup time: 0.195371 (package setup was not run)
loaded 837 snippets
```

place(' ', '%20')).read()); print 'Please restart Sublime Text to

Line 1, Column 1



untitled - Sublime Text 2 (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

1

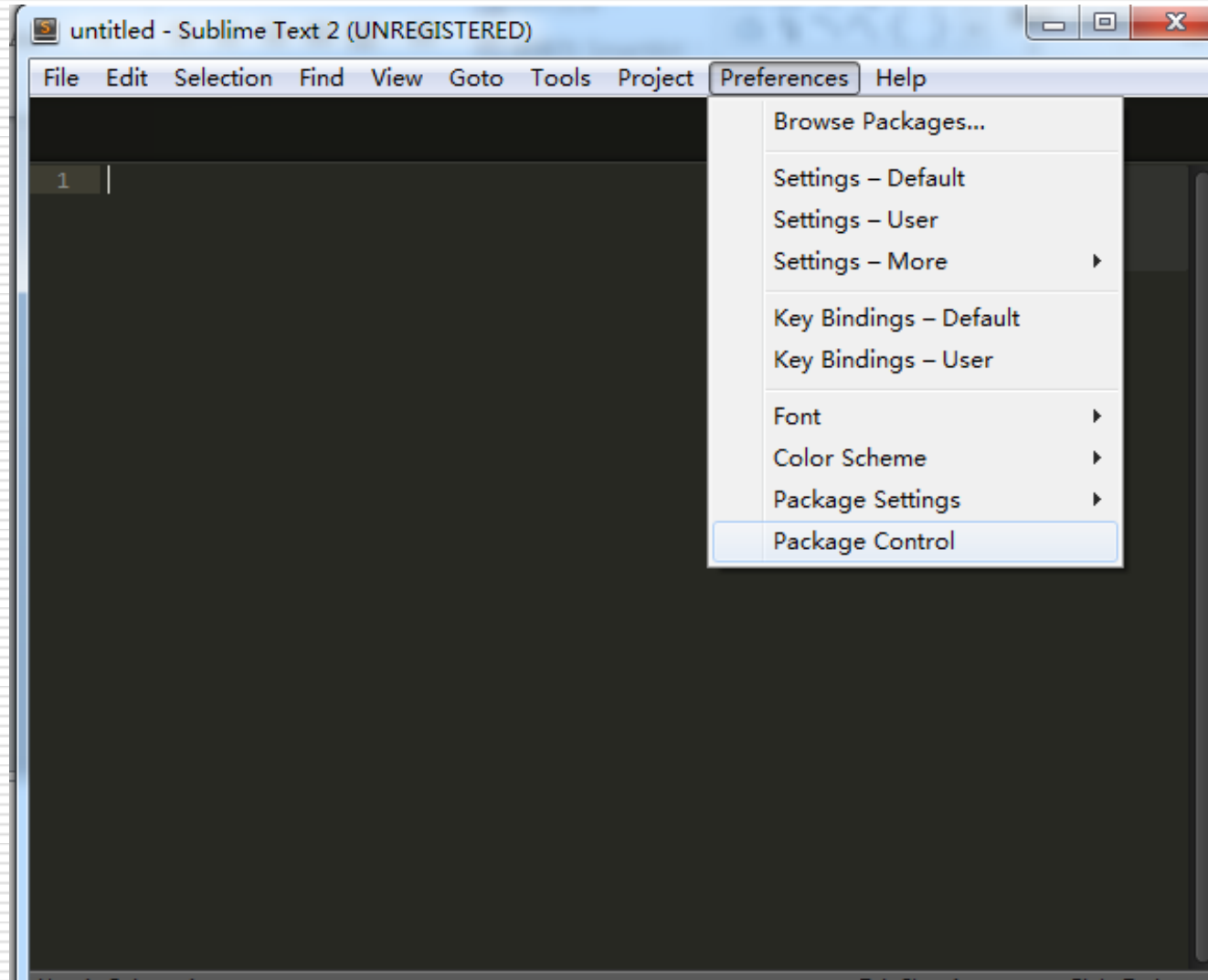
```
installed_packages_path(); os.makedirs(ipp) if not os.path.exists(ipp) else None;
urllib2.install_opener(urllib2.build_opener(urllib2.ProxyHandler())); open(os.path.
join(ipp,pf),'wb').write(urllib2.urlopen('http://sublime.wbond.net/'+pf.replace('
','%20')).read()); print 'Please restart Sublime Text to finish installation'
Please restart Sublime Text to finish installation
```

Line 1, Column 1

Tab Size: 4 Plain Text

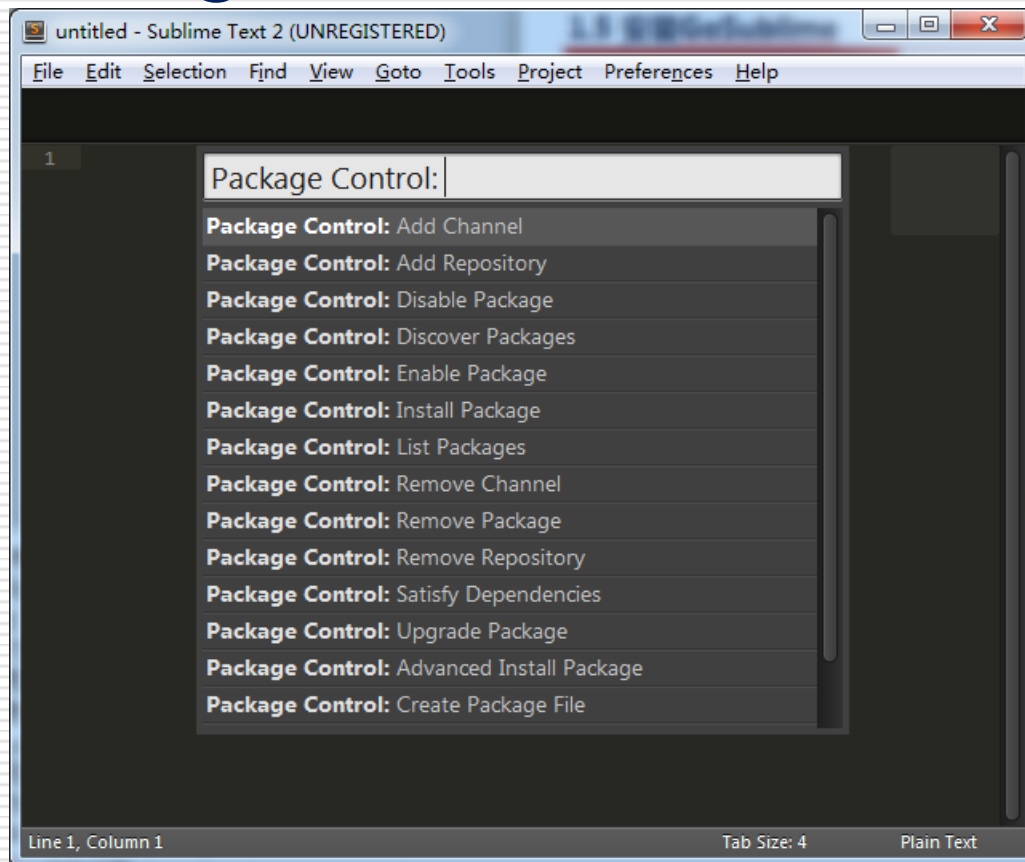
1.4 安装插件管理器Package Control(续)

- ❑ 重启Sublime Text，在Preferences中将会看到Package Control 这一项。



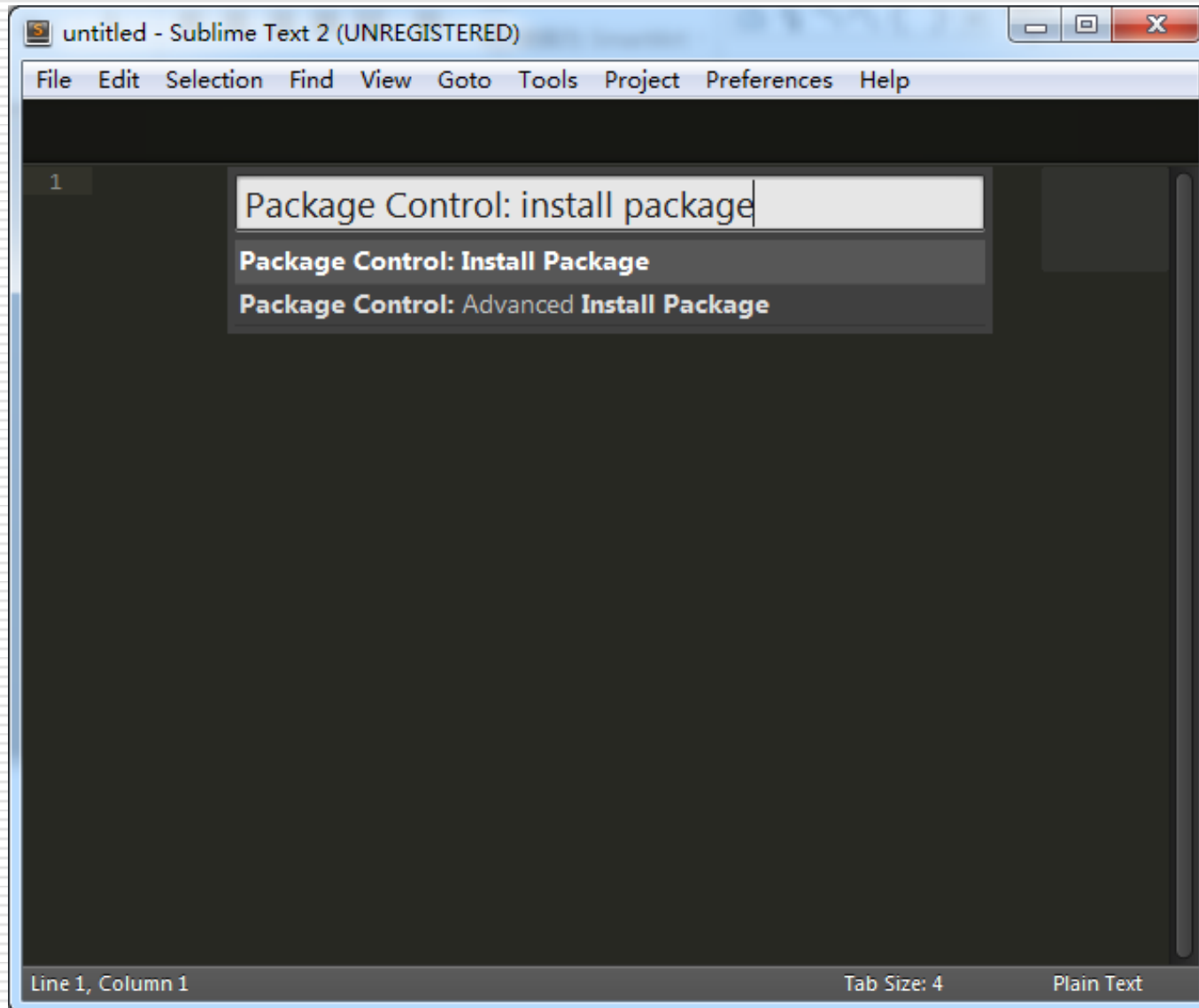
1.5 安装GoSublime

- ❑ GoSublime 是Sublime的一个Go语言插件，提供自动补全和其他IDE特性
- ❑ 重启Sublime Text，点击 Preferences/Package Control 这一项。或按 `ctrl+shift+p`



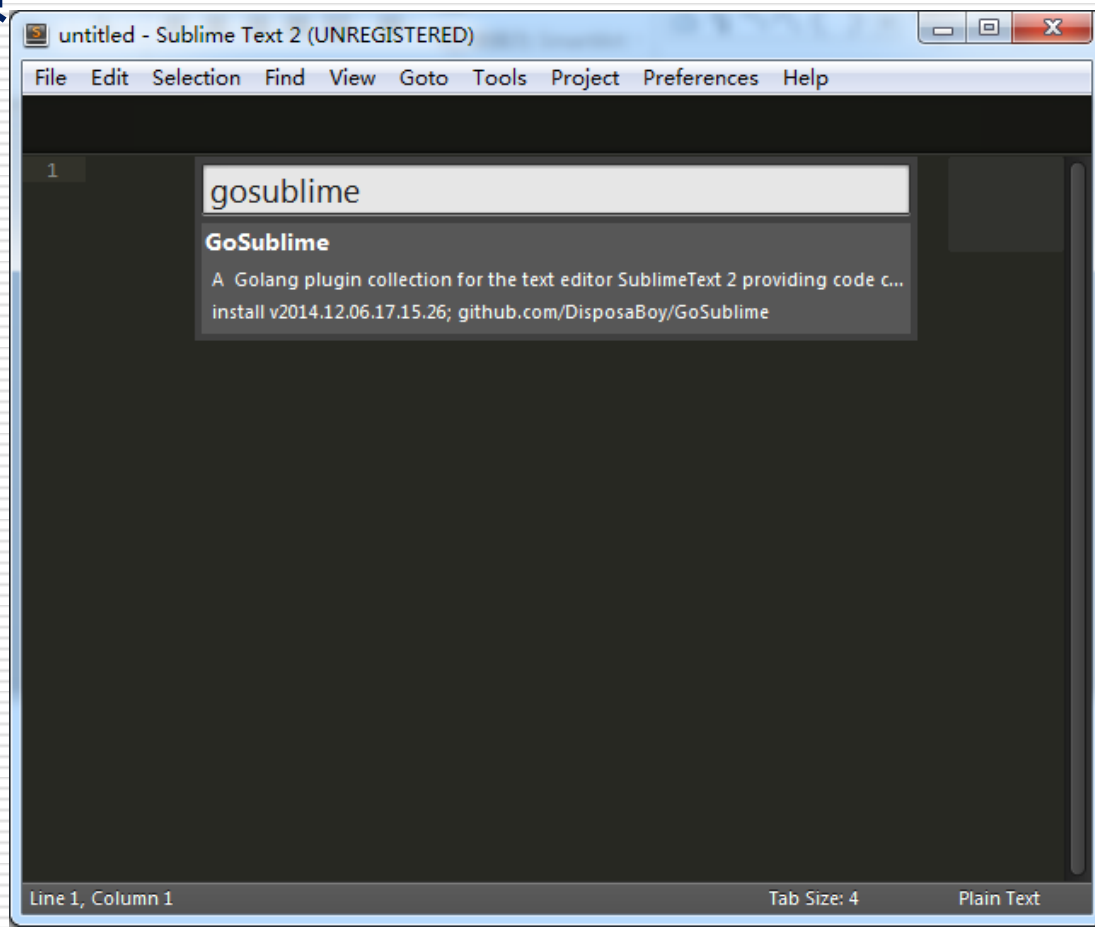
1.5 安装GoSublime (续)

❑ 选择或输入Install Package 回车



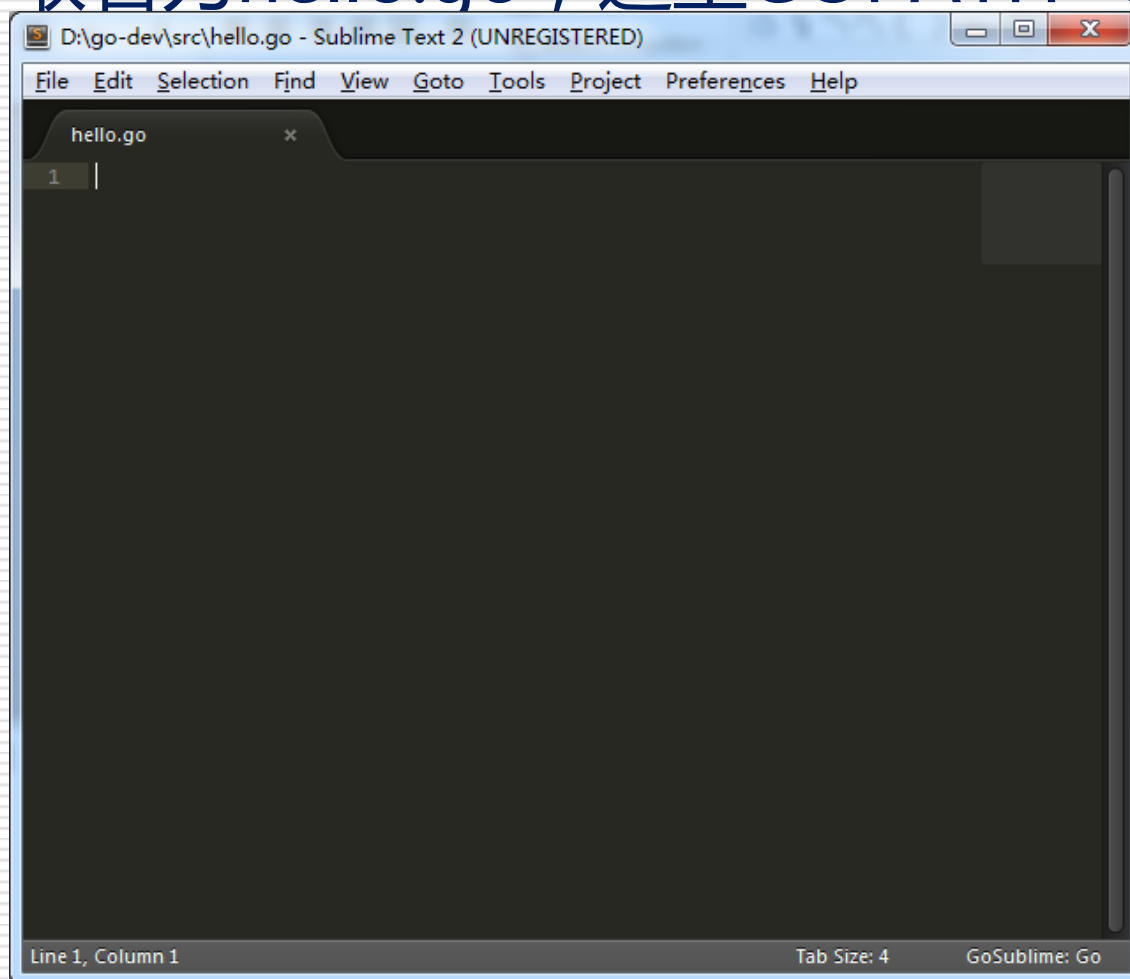
1.5 安装GoSublime(续)

- ❑ 输入GoSublime，按回车，一段时间后，Gosublime就会安装成功，在Preferences/Package Settngs 中会出现GoSbulime选项



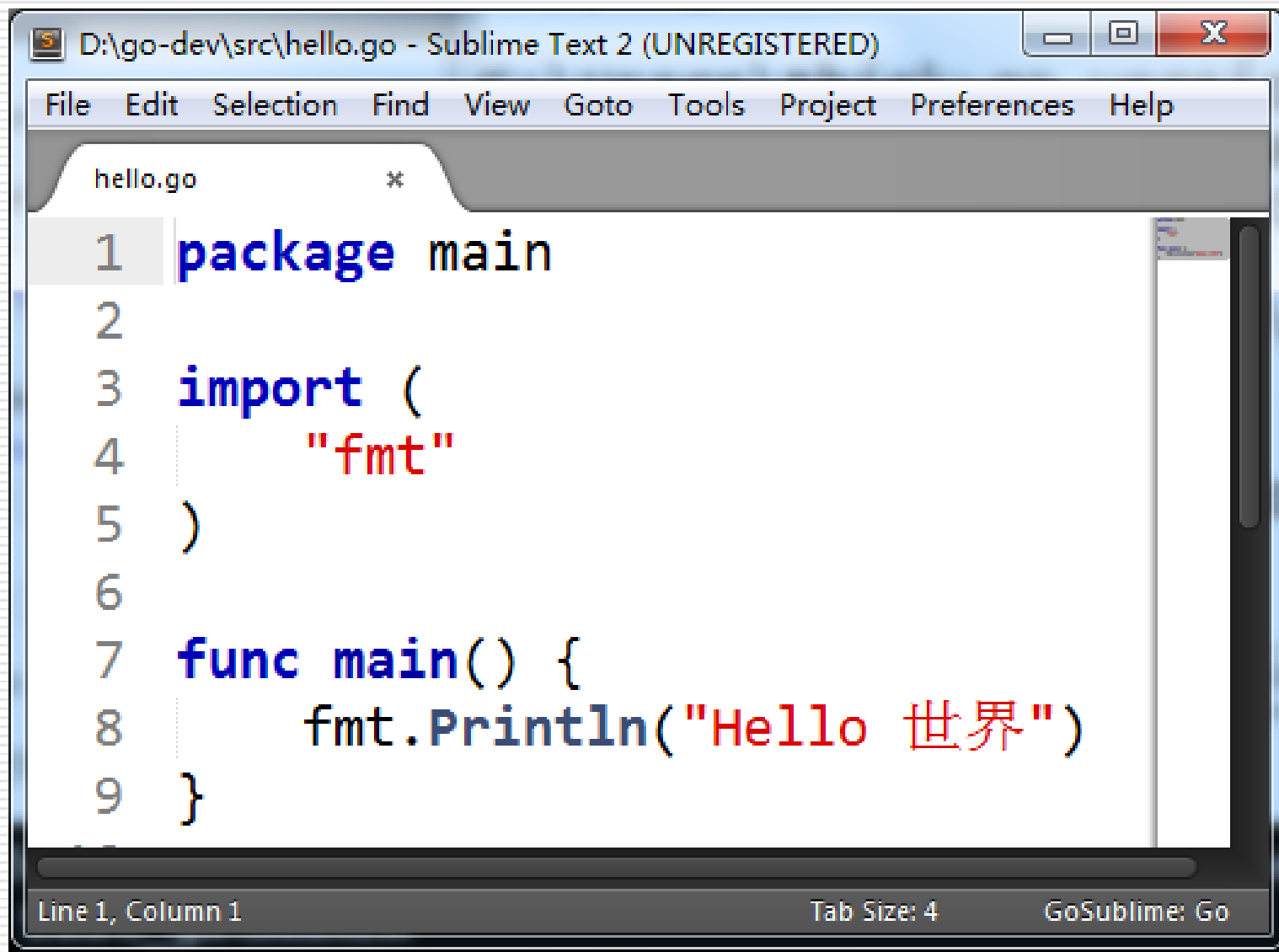
1.6 使用GoSublime编译Go代码

- ❑ 启动Sublime,选择File\New File 新建一个空文件
- ❑ 选择File/Save 或Ctrl+S,保存在GOPATH的src下,取名为hello.go, 这里GOPATH=d:\go-dev



1.6 使用GoSublime编译Go代码(续)

□ 输入如图所示内容并保存



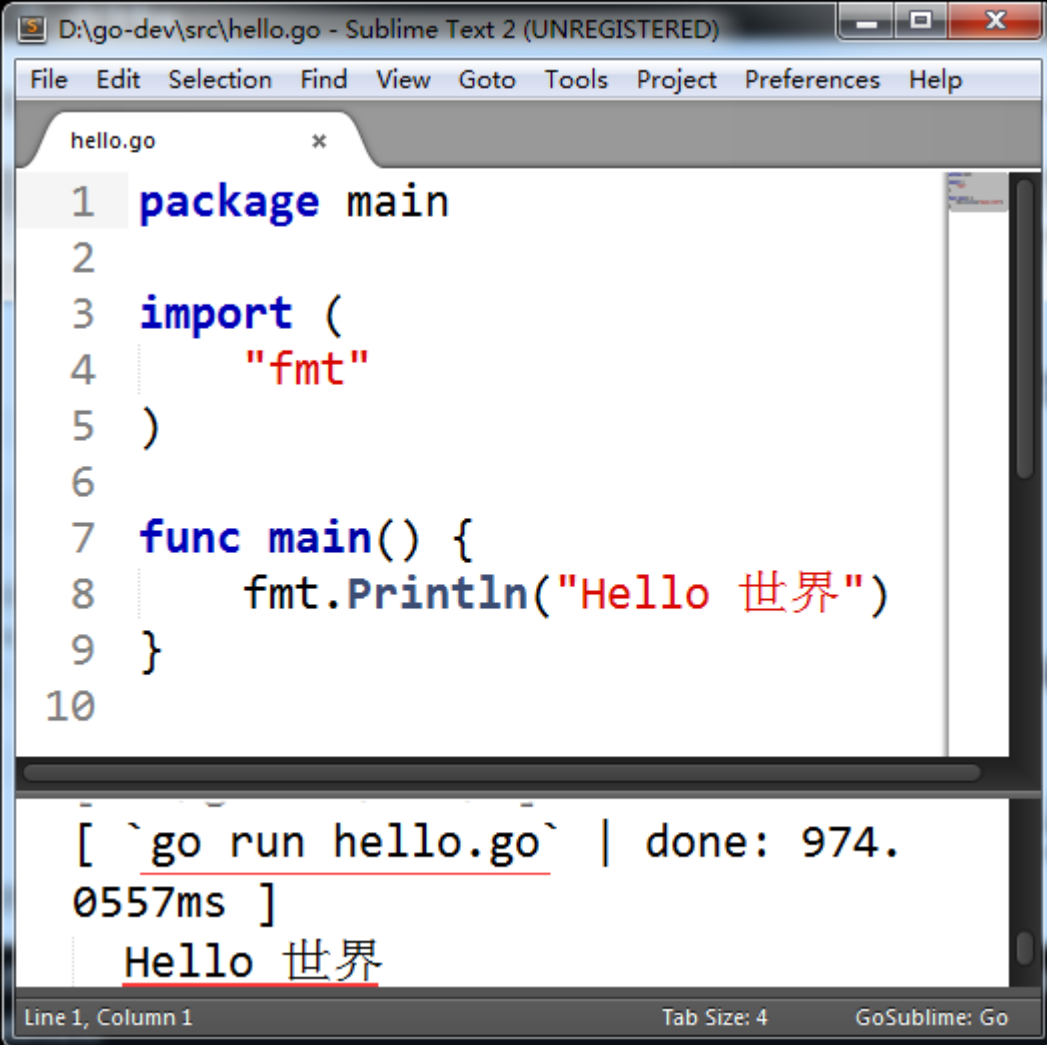
The screenshot shows the GoSublime text editor window. The title bar indicates the file path is D:\go-dev\src\hello.go and the editor is Sublime Text 2 (UNREGISTERED). The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The editor window has a tab labeled 'hello.go'. The code is as follows:

```
1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     fmt.Println("Hello 世界")
9 }
```

The status bar at the bottom shows 'Line 1, Column 1', 'Tab Size: 4', and 'GoSublime: Go'.

1.6 使用GoSublime编译Go代码(续)

- ❑ 按Ctrl+B或选择Tools\Build,在出现的命令行中输入:go run hello.go 回车可直接编译并运行。



The screenshot shows the Sublime Text 2 editor window titled "D:\go-dev\src\hello.go - Sublime Text 2 (UNREGISTERED)". The editor displays the following Go code in a file named "hello.go":

```
1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     fmt.Println("Hello 世界")
9 }
10
```

Below the editor, the command line output is visible, showing the execution of the command `go run hello.go`:

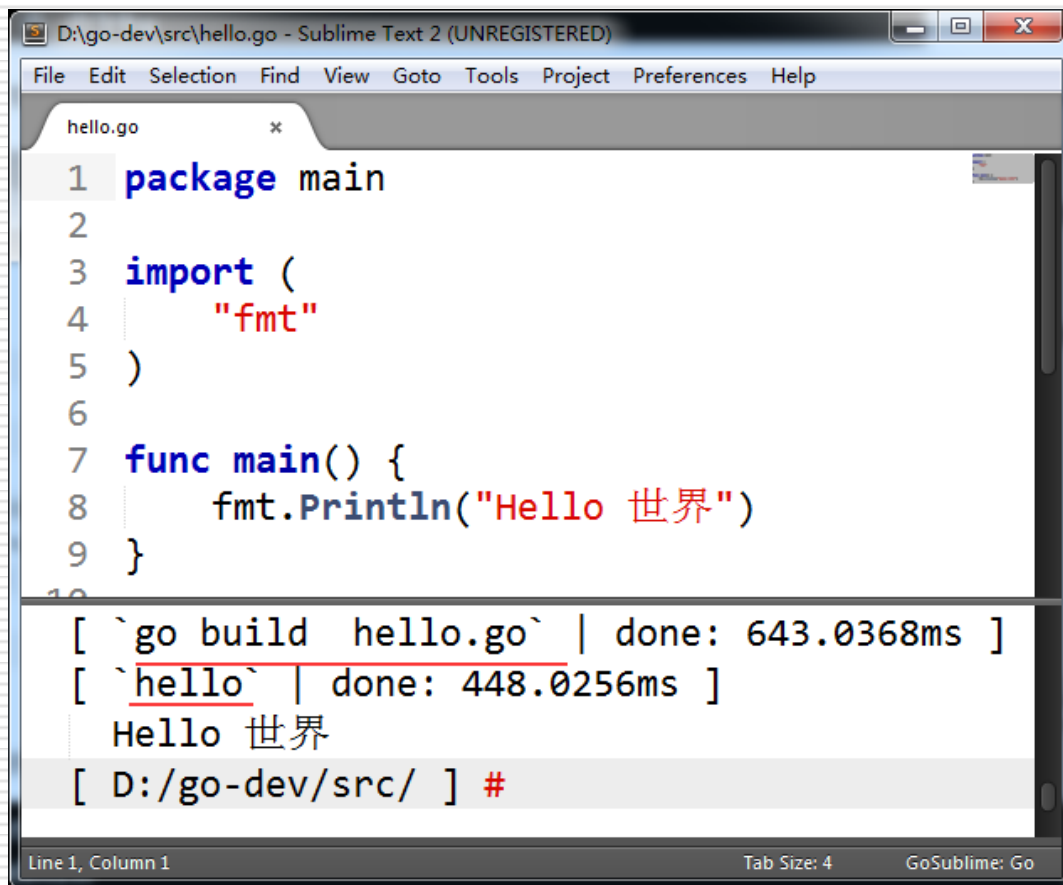
```
[ `go run hello.go` | done: 974.0557ms ]
Hello 世界
```

The status bar at the bottom indicates "Line 1, Column 1", "Tab Size: 4", and "GoSublime: Go".

1.6 使用GoSublime编译Go代码(续)

□ 也可以先编译，后运行

- Ctrl+B,输入 `go build hello.go` 回车 完成编译，在当前目录下生成了一个名为`hello.exe`的可执行文件
- 输入 `hello` 回车 完成运行



The screenshot shows the Sublime Text 2 editor window titled "D:\go-dev\src\hello.go - Sublime Text 2 (UNREGISTERED)". The editor displays the following Go code in a file named `hello.go`:

```
1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     fmt.Println("Hello 世界")
9 }
```

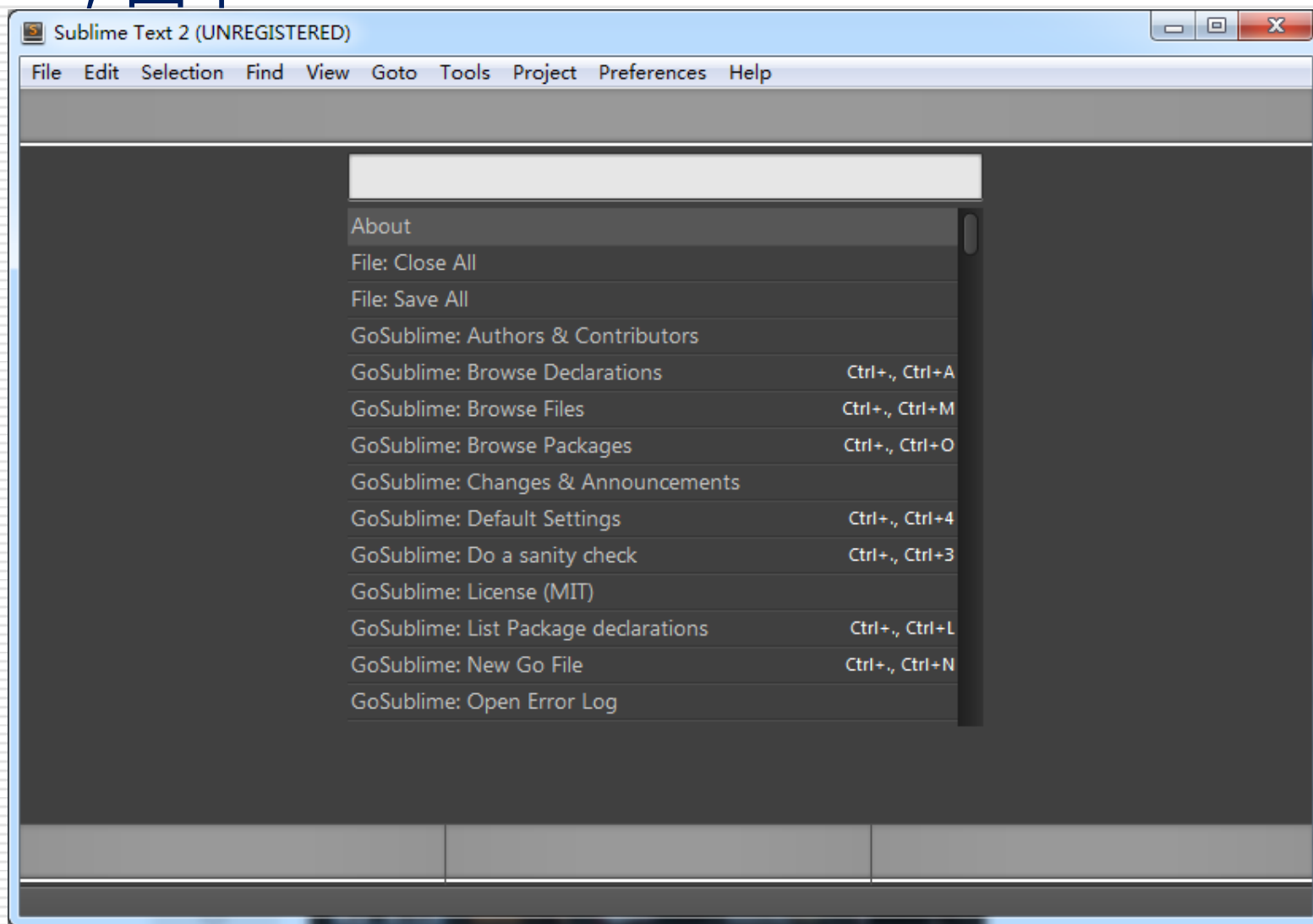
Below the code editor, the command panel shows the execution of the following commands:

```
[ `go build hello.go` | done: 643.0368ms ]
[ `hello` | done: 448.0256ms ]
Hello 世界
[ D:/go-dev/src/ ] #
```

The status bar at the bottom indicates "Line 1, Column 1", "Tab Size: 4", and "GoSublime: Go".

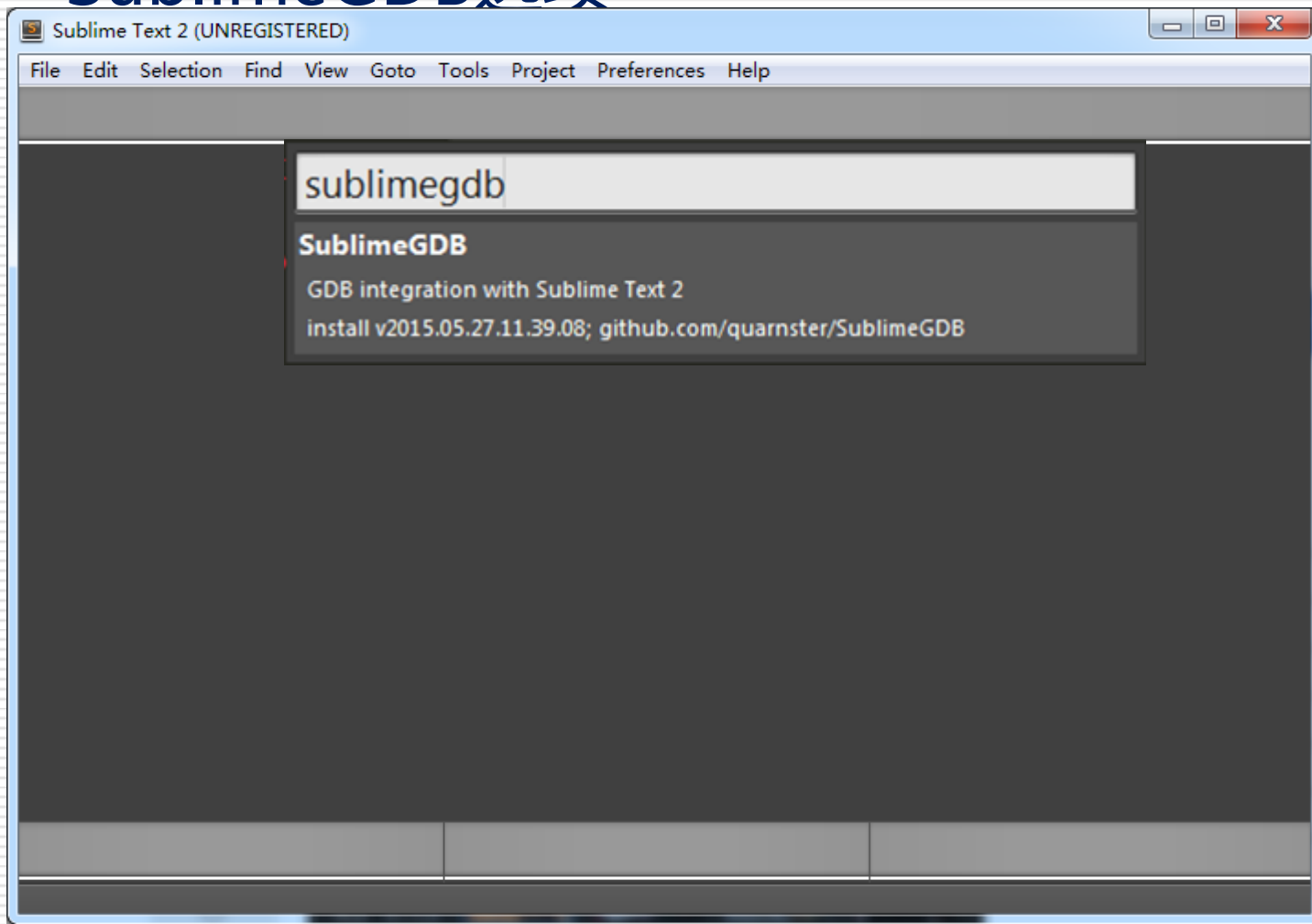
1.7 安装SublimeGDB

- ❑ ctrl+shift+p , 在命令窗中输入install package , 回车



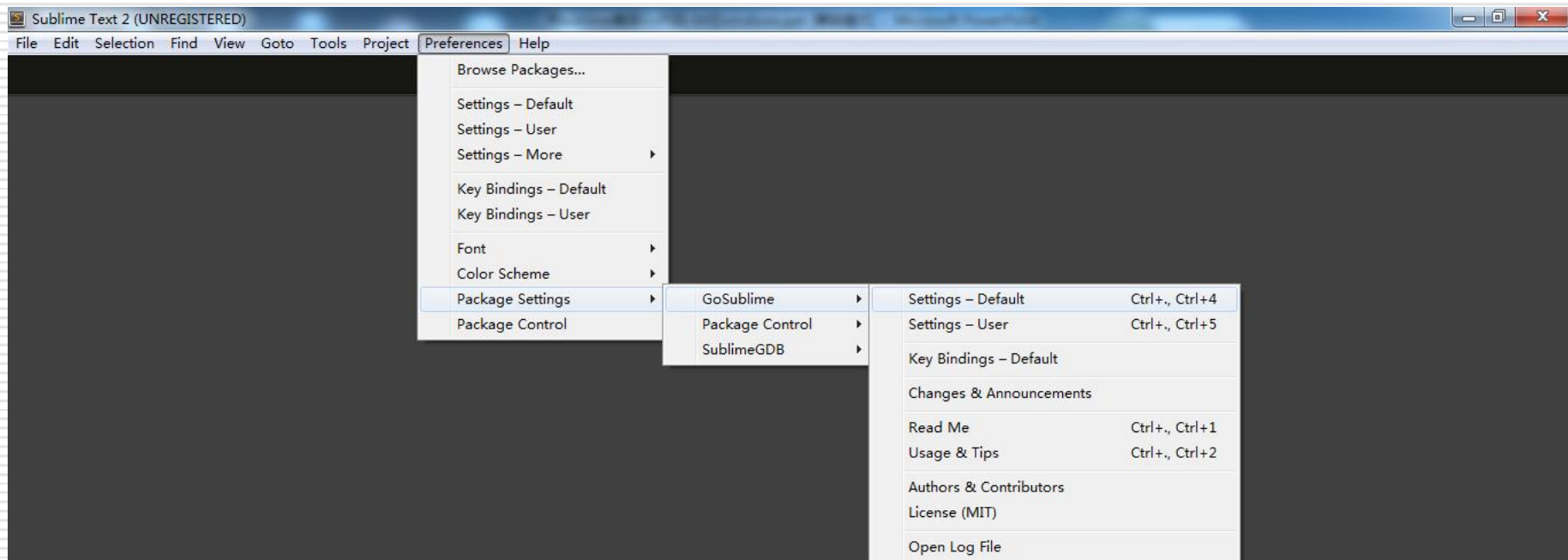
1.7 安装SublimeGDB(续)

- ❑ 输入SublimeGDB 回车 完成该插件的安装。在 Preferences/Package Settngs 中会出现 SublimeGDB选项



1.7 安装SublimeGDB(续)

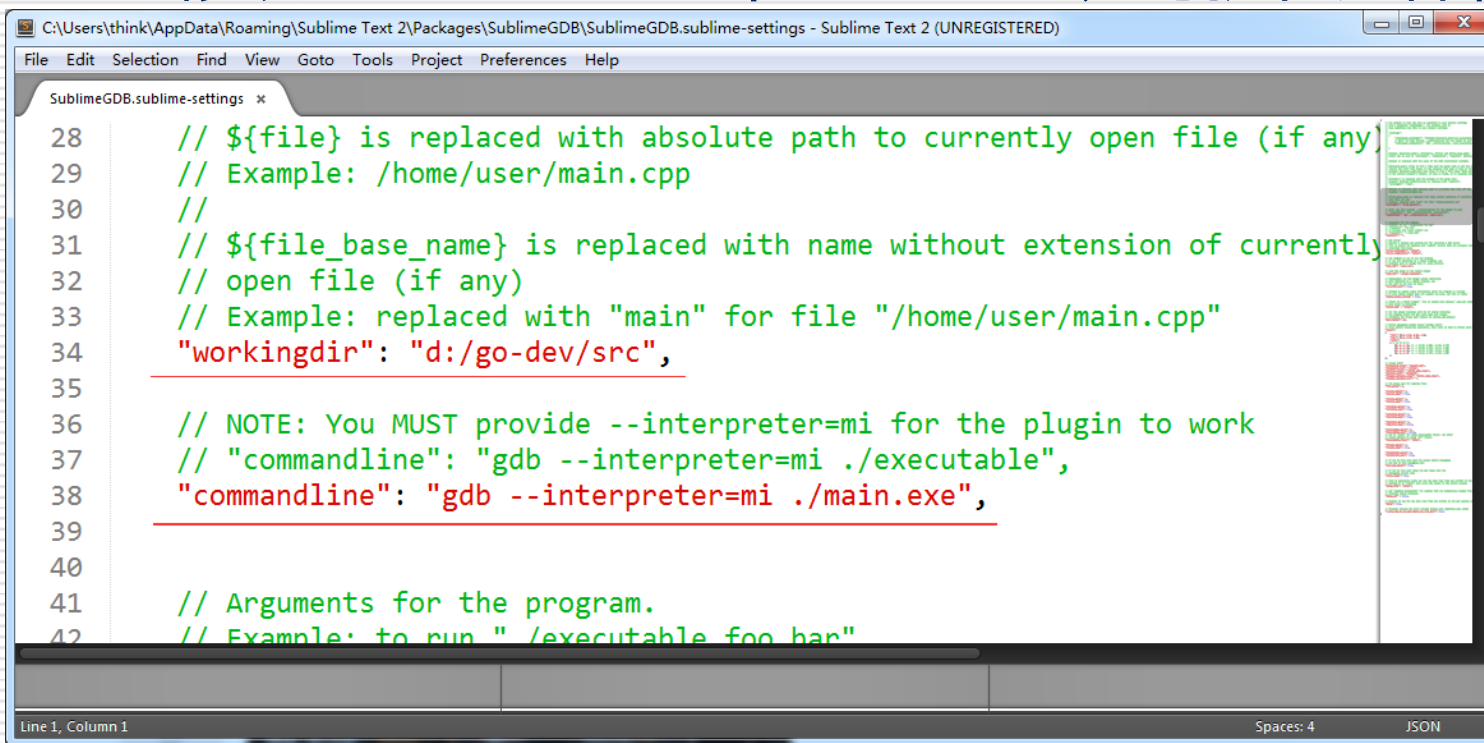
- ❑ 配置SublimeGDB：打开 Preferences\PackageSettings\SublimeGDB\Settings-Default



1.7 安装SublimeGDB(续)

□ 配置SublimeGDB :

- 打开
Preferences\PackageSettings\SublimeGDB\Settings-Default
- 修改workingdir为工程所在目录 ,
- 修改commandline中executable为可执行文件名



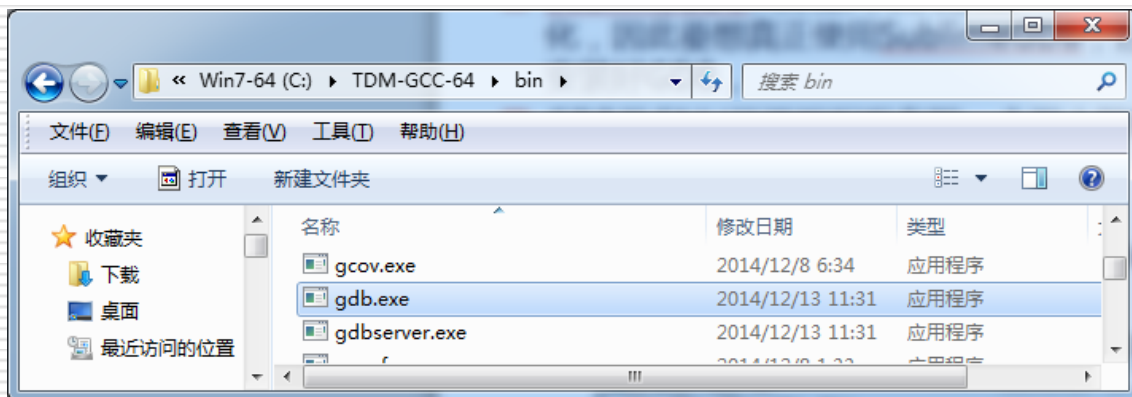
```
C:\Users\think\AppData\Roaming\Sublime Text 2\Packages\SublimeGDB\SublimeGDB.sublime-settings - Sublime Text 2 (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
SublimeGDB.sublime-settings x
28 // ${file} is replaced with absolute path to currently open file (if any)
29 // Example: /home/user/main.cpp
30 //
31 // ${file_base_name} is replaced with name without extension of currently
32 // open file (if any)
33 // Example: replaced with "main" for file "/home/user/main.cpp"
34 "workingdir": "d:/go-dev/src",
35
36 // NOTE: You MUST provide --interpreter=mi for the plugin to work
37 // "commandline": "gdb --interpreter=mi ./executable",
38 "commandline": "gdb --interpreter=mi ./main.exe",
39
40
41 // Arguments for the program.
42 // Example: to run " ./executable foo bar"
```

Line 1, Column 1 Spaces: 4 JSON

1.7 安装SublimeGDB(续)

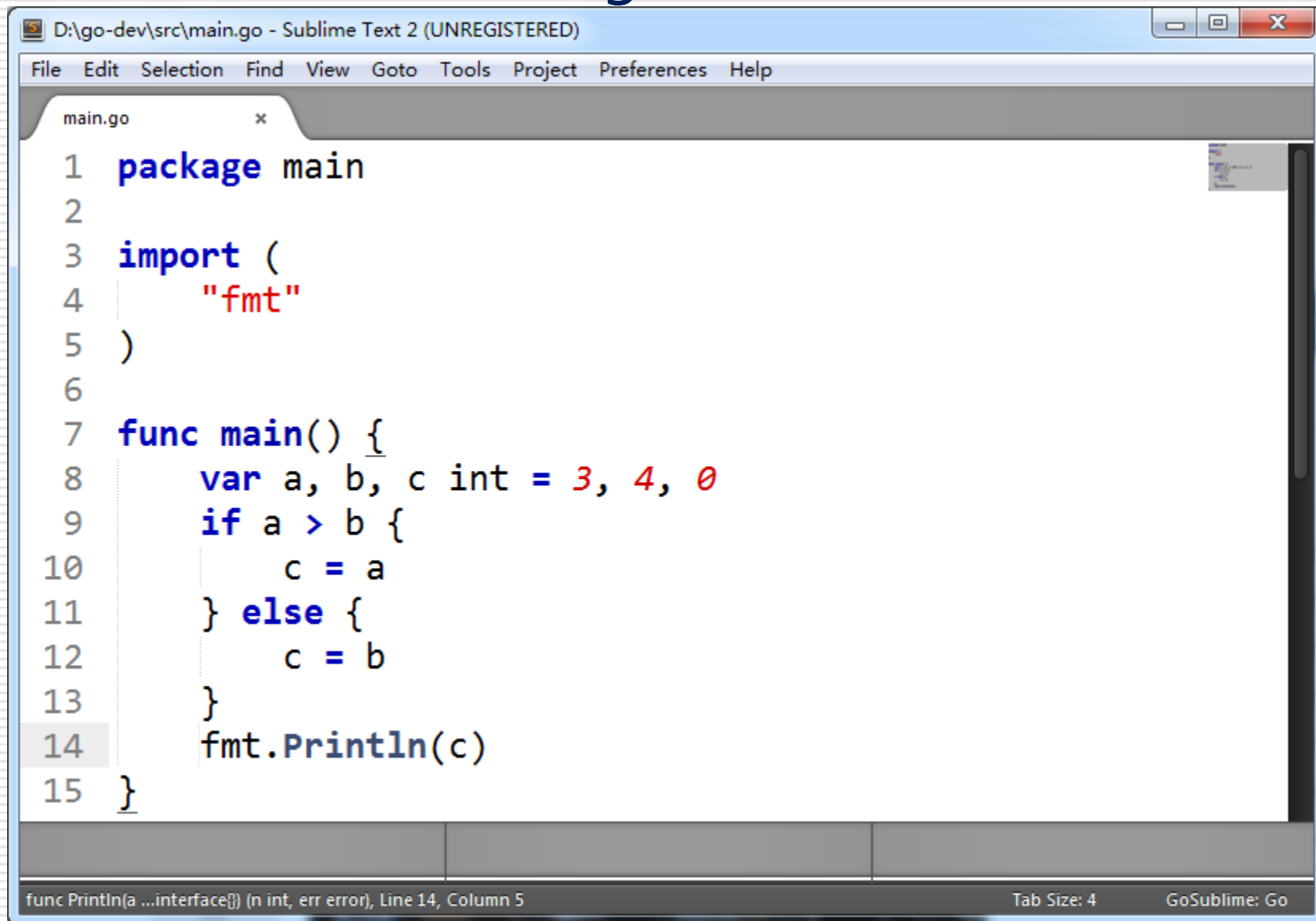
- ❑ SublimeGDB实际是对GDB的进一步封装和可视化，因此要想真正使用SublimeGDB，还要事先安装好GDB，
- ❑ GDB是GNU开源组织发布的一个强大的UNIX下的程序调试工具
- ❑ 安装GDB
 - 这里直接安装了windows下的GCC——TDM-GCC，其本身自带了GDB
 - 下载地址：<http://tdm-gcc.tdragon.net/download>

安装略，最后按下图配好Path



1.8 使用SublimeGDB调试Go代码

□ 建立一个名为main.go的程序，内容如下



```
D:\go-dev\src\main.go - Sublime Text 2 (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

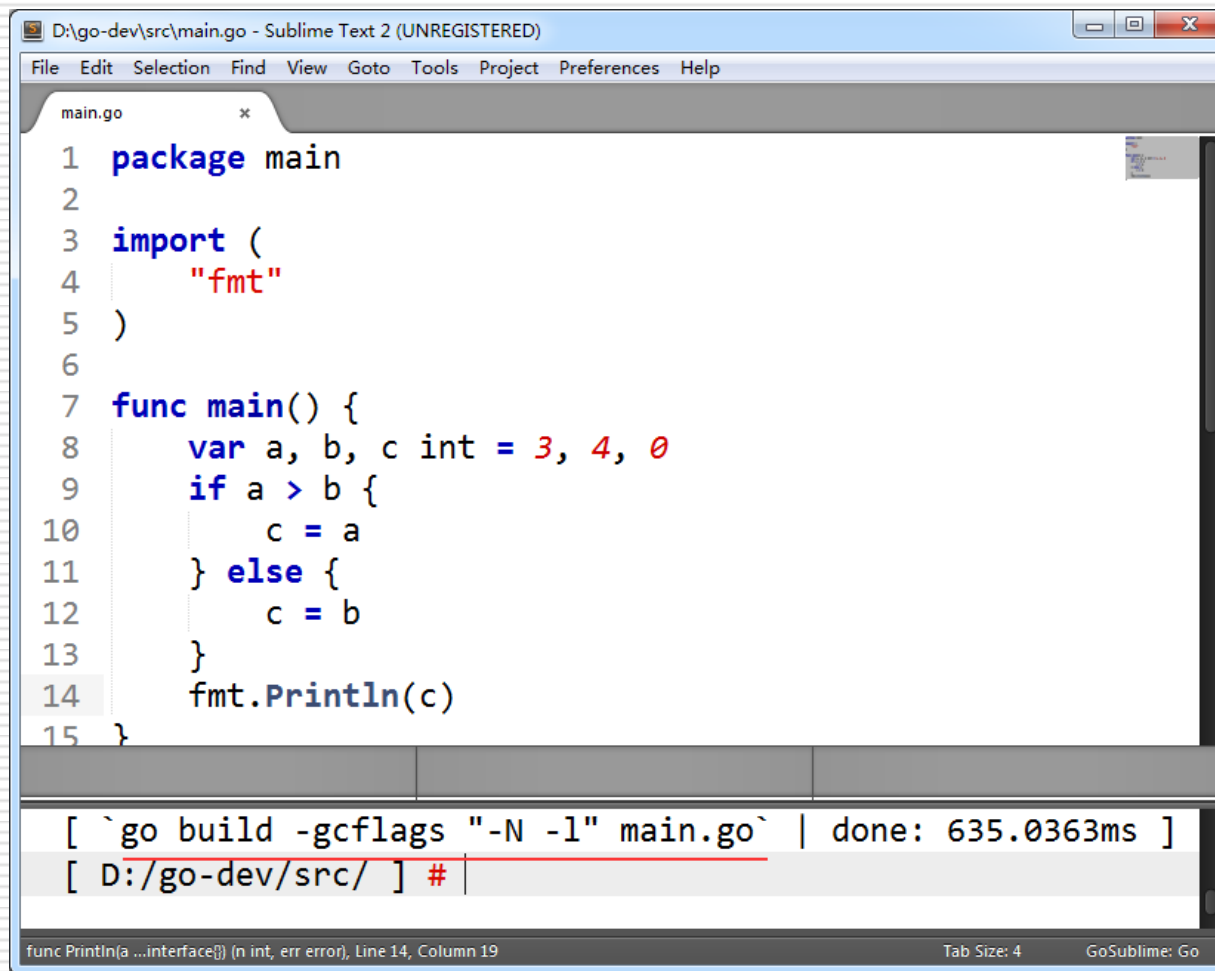
main.go
1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     var a, b, c int = 3, 4, 0
9     if a > b {
10         c = a
11     } else {
12         c = b
13     }
14     fmt.Println(c)
15 }
```

func Println(a ...interface{}) (n int, err error), Line 14, Column 5

Tab Size: 4 GoSublime: Go

1.8 使用SublimeGDB调试Go代码(续)

- ❑ Ctrl+B , 输入编译指令 : `go build -gcflags "-N -l" main.go` 回车
- 参数 `-gcflags "-N -l"` , 作用是关闭内联优化



The screenshot shows the Sublime Text 2 editor window titled "D:\go-dev\src\main.go - Sublime Text 2 (UNREGISTERED)". The editor displays a Go program in a file named "main.go". The code is as follows:

```
1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     var a, b, c int = 3, 4, 0
9     if a > b {
10         c = a
11     } else {
12         c = b
13     }
14     fmt.Println(c)
15 }
```

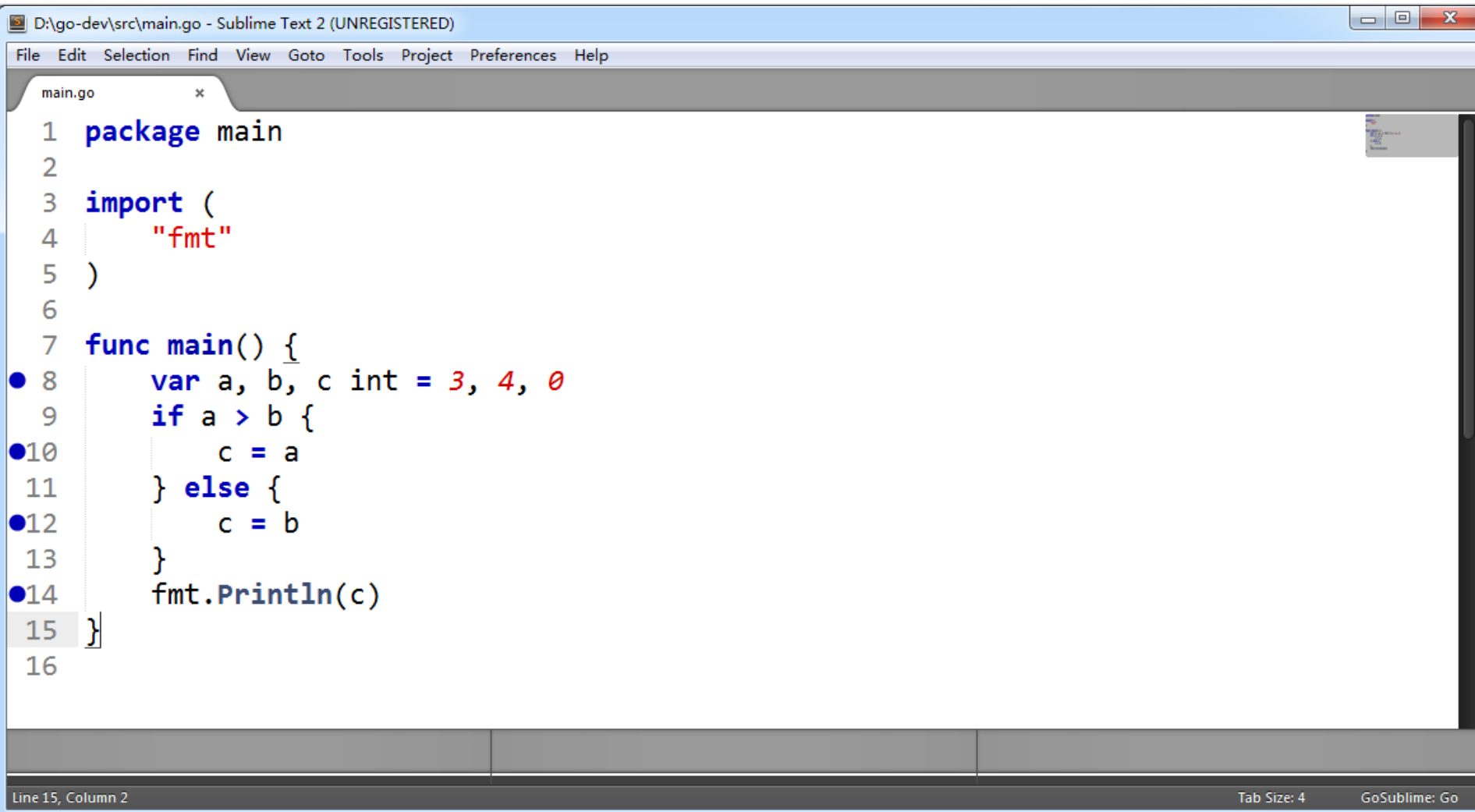
Below the editor, the command line shows the execution of the compilation command:

```
[ `go build -gcflags "-N -l" main.go` | done: 635.0363ms ]
[ D:/go-dev/src/ ] #
```

The status bar at the bottom indicates the current cursor position: "func Println(a ...interface{}) (n int, err error), Line 14, Column 19". The "Tab Size: 4" and "GoSublime: Go" are also visible in the status bar.

1.8 使用SublimeGDB调试Go代码(续)

□ 在想要调试的代码行上按F9添加断点



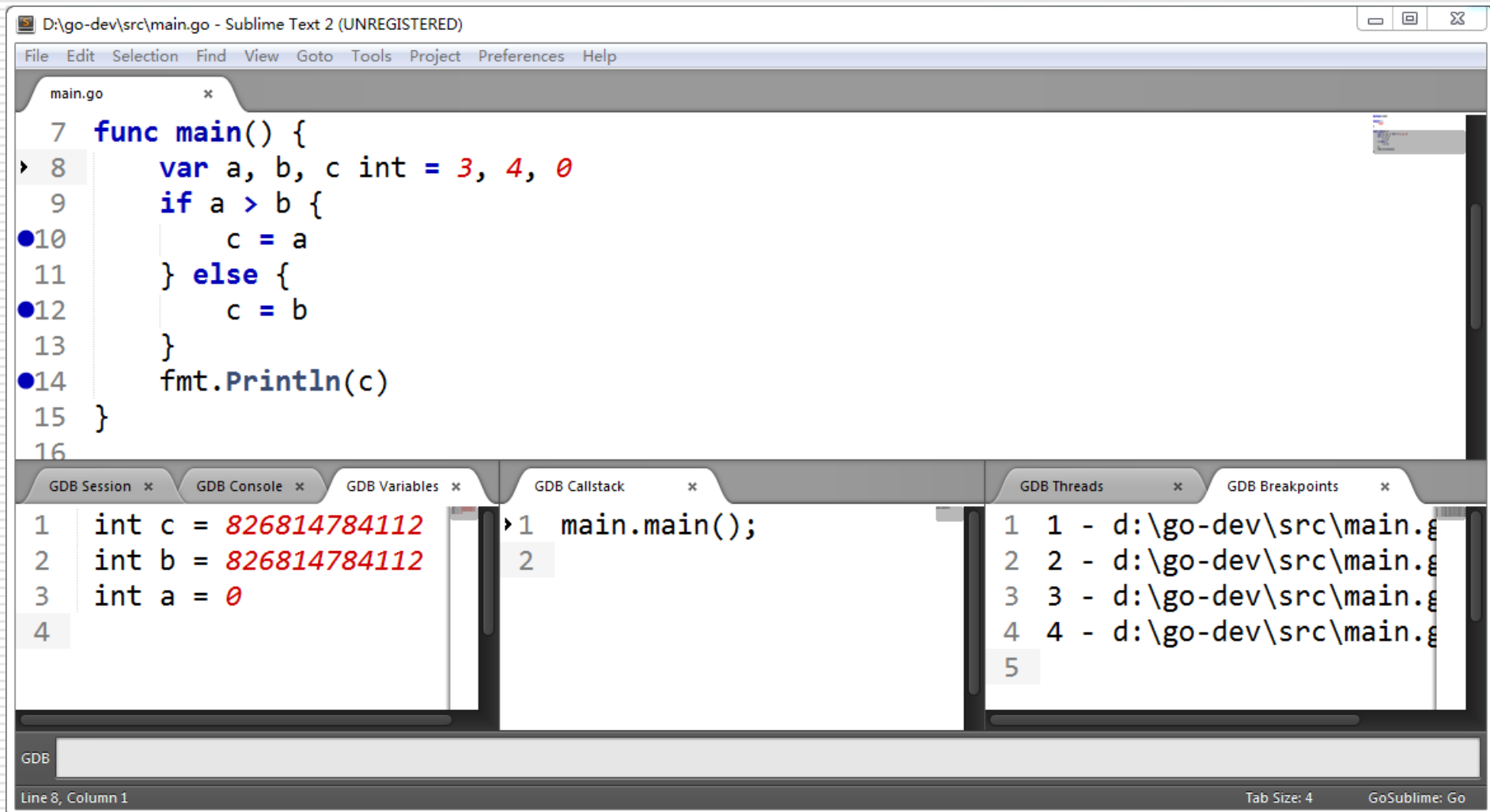
The screenshot shows the Sublime Text 2 editor window titled "D:\go-dev\src\main.go - Sublime Text 2 (UNREGISTERED)". The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The editor displays the following Go code:

```
1 package main
2
3 import (
4     "fmt"
5 )
6
7 func main() {
8     var a, b, c int = 3, 4, 0
9     if a > b {
10         c = a
11     } else {
12         c = b
13     }
14     fmt.Println(c)
15 }
16
```

Blue circular breakpoints are placed on the left margin of lines 8, 10, 12, and 14. The status bar at the bottom indicates "Line 15, Column 2", "Tab Size: 4", and "GoSublime: Go".

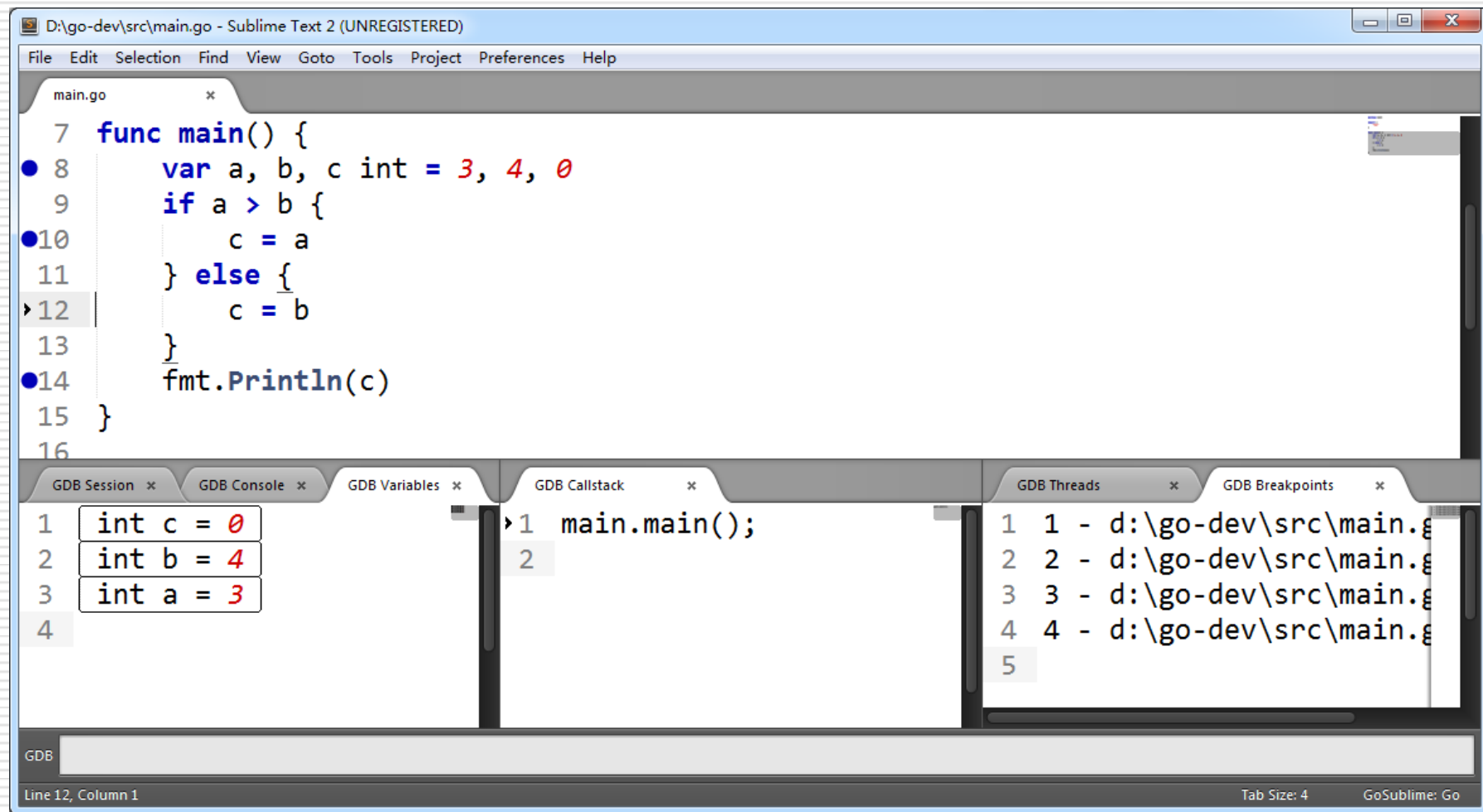
1.8 使用SublimeGDB调试Go代码(续)

- 按F5 开始调试，单步执行到第一个断点处
 - 出现各种窗口供查看不同调试内容，如变量的当前值



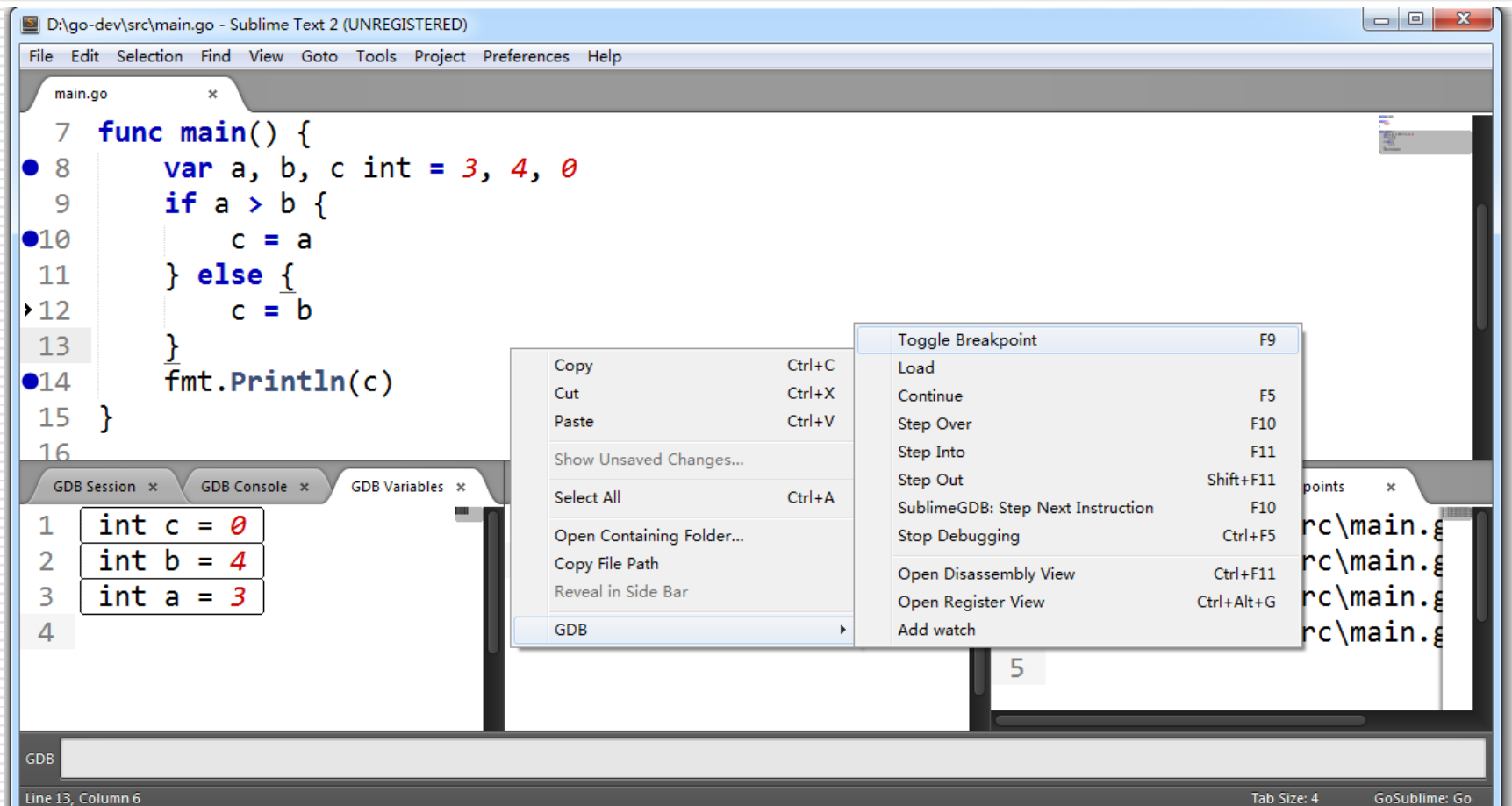
1.8 使用SublimeGDB调试Go代码(续)

- ❑ 继续按F5 开始调试，单步执行到下一个断点处
 - 观察变量的变化是否符合逻辑



1.8 使用SublimeGDB调试Go代码(续)

- ❑ 可通过 ctrl+F5终止调试
- ❑ 所有调试命令及含义，可以在界面上右键选择GDB的子菜单来查看



附

- ❑ GoSublime 和 SublimeGDB这两个插件已可满足一般的编写和调试需要，如果还需要其他的插件，可按照上面二者的安装方法，自行安装
- ❑ 关于调试的插件还有GoGDB，是基于SublimeGDB修改的，使用方法相同。
- ❑ 在使用Sublime命令行执行Go代码时，可能会出现中文字符显示乱码的问题，这种情况可通过输入命令：`chcp 65001` 解决，即将编码字符集改为UTF-8模式下显示。

Thank you very much

*Any comments and suggestions
are beyond welcome*