

AN INTRODUCTION TO  
**PROGRAMMING**  
IN **GO**



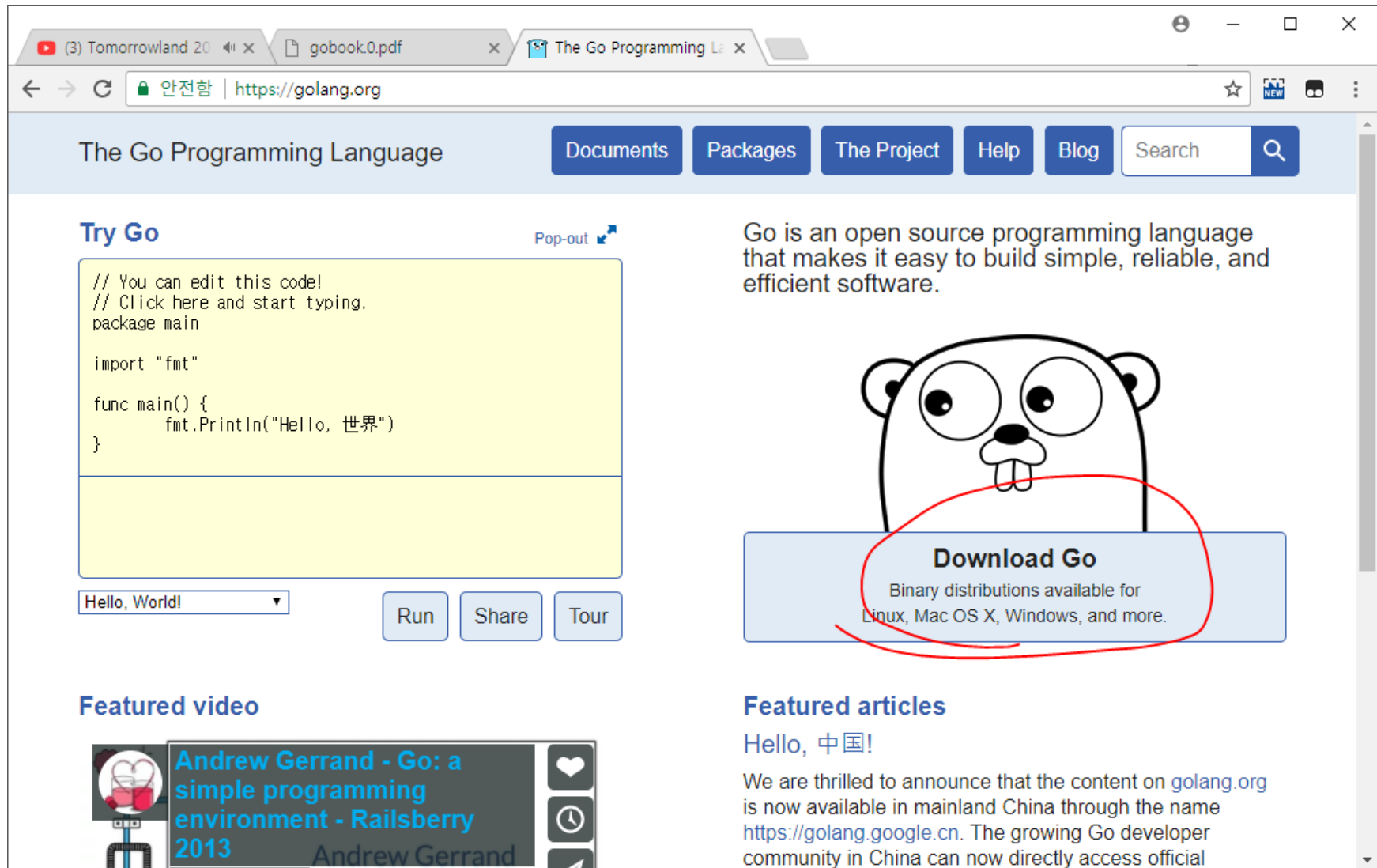
CALEB DOXSEY

# Hello World in Go

# 0. Hello World in Go

Install Go

# Install Go – Go to golang.org & Click



The screenshot shows the golang.org website in a web browser. The browser's address bar displays 'https://golang.org'. The website's header includes the title 'The Go Programming Language' and navigation links for 'Documents', 'Packages', 'The Project', 'Help', and 'Blog'. A search bar is also present. The main content area features a 'Try Go' section on the left with a code editor containing a Go program that prints 'Hello, 世界!'. Below the code editor is a dropdown menu showing 'Hello, World!' and buttons for 'Run', 'Share', and 'Tour'. To the right of the 'Try Go' section, there is a description of Go as an open source programming language and a cartoon polar bear mascot. Below the mascot, a blue button labeled 'Download Go' is circled in red. The button text indicates that binary distributions are available for Linux, Mac OS X, Windows, and more. At the bottom of the page, there are sections for 'Featured video' (showing a video by Andrew Gerrand) and 'Featured articles' (starting with 'Hello, 中国!').

The Go Programming Language

Documents Packages The Project Help Blog Search

**Try Go** Pop-out

```
// You can edit this code!  
// Click here and start typing.  
package main  
  
import "fmt"  
  
func main() {  
    fmt.Println("Hello, 世界")  
}
```

Hello, World! Run Share Tour

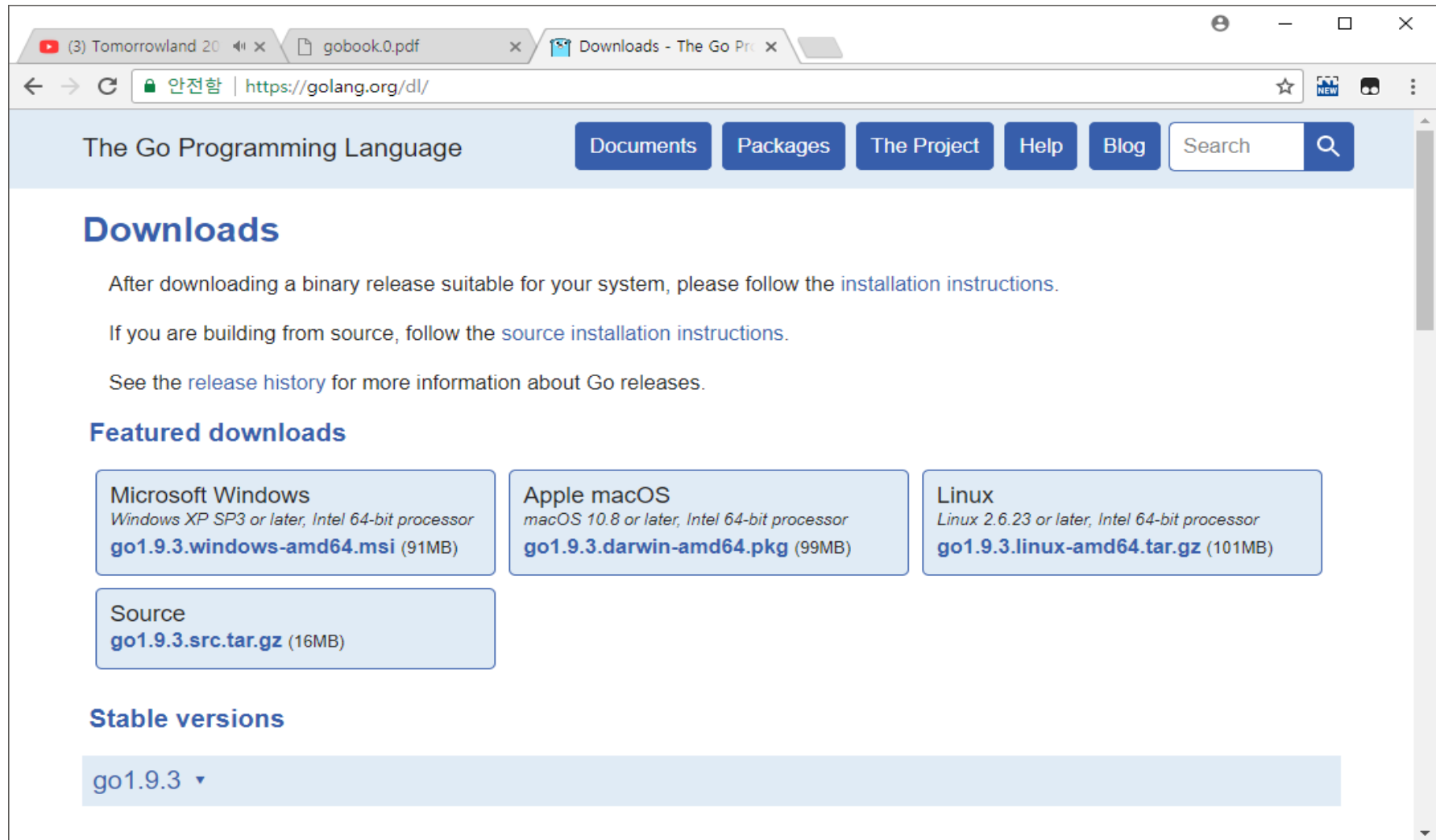
Go is an open source programming language that makes it easy to build simple, reliable, and efficient software.

**Download Go**  
Binary distributions available for Linux, Mac OS X, Windows, and more.

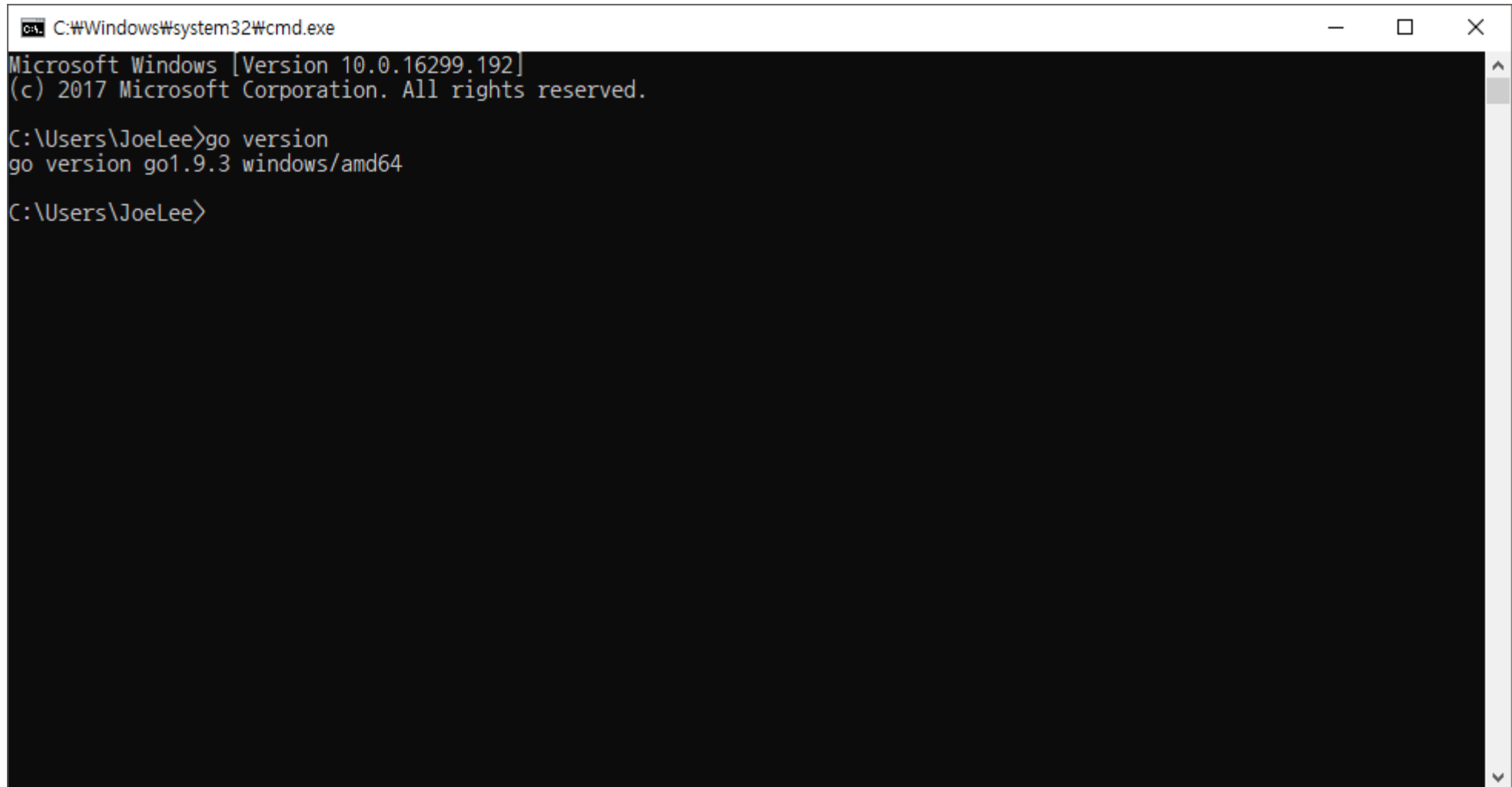
**Featured video**  
Andrew Gerrand - Go: a simple programming environment - Railsberry 2013

**Featured articles**  
Hello, 中国!  
We are thrilled to announce that the content on [golang.org](https://golang.org) is now available in mainland China through the name <https://golang.google.cn>. The growing Go developer community in China can now directly access official

# Install Go – Click and Download Installer



# Install Go – Check Installed



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.16299.192]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\JoeLee>go version
go version go1.9.3 windows/amd64

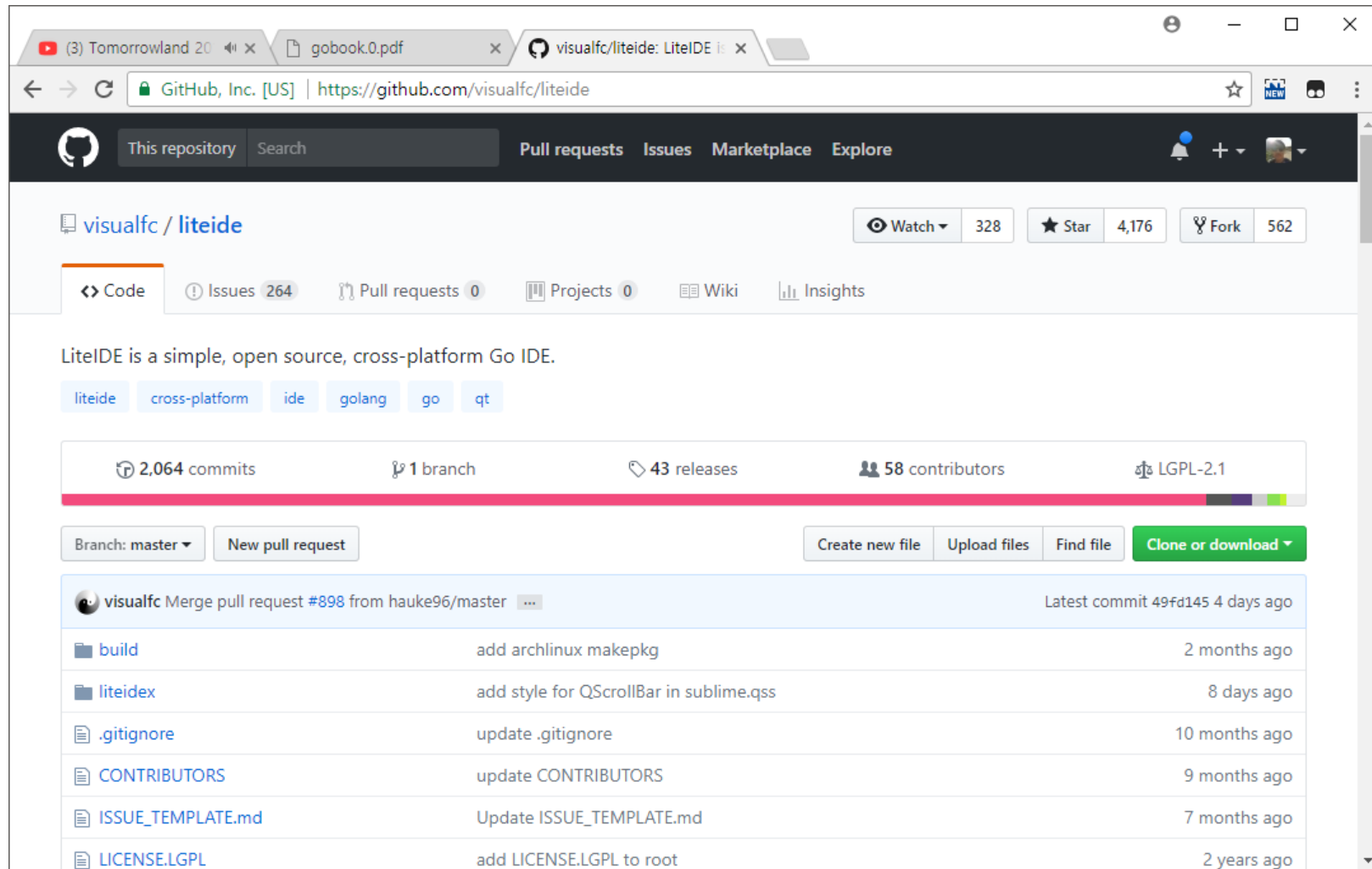
C:\Users\JoeLee>
```

The image shows a Windows Command Prompt window with a black background and white text. The title bar at the top reads 'C:\Windows\system32\cmd.exe'. The window contains the following text: 'Microsoft Windows [Version 10.0.16299.192]', '(c) 2017 Microsoft Corporation. All rights reserved.', 'C:\Users\JoeLee>go version', 'go version go1.9.3 windows/amd64', and 'C:\Users\JoeLee>'. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

# 0. Hello World in Go

Install LiteIDE

# Go To - github.com/visualfc/liteide



The screenshot displays the GitHub repository page for `visualfc/liteide`. The browser's address bar shows the URL `https://github.com/visualfc/liteide`. The repository page includes a header with the GitHub logo, a search bar, and navigation links for Pull requests, Issues, Marketplace, and Explore. Below the header, the repository name `visualfc / liteide` is shown, along with statistics: 328 Watchers, 4,176 Stars, and 562 Forks. The `Code` tab is selected, showing 264 Issues, 0 Pull requests, 0 Projects, Wiki, and Insights. A description states: "LiteIDE is a simple, open source, cross-platform Go IDE." Below this, tags for `liteide`, `cross-platform`, `ide`, `golang`, `go`, and `qt` are listed. A summary bar shows 2,064 commits, 1 branch, 43 releases, 58 contributors, and the LGPL-2.1 license. A pink progress bar is visible below the summary. The `Branch: master` dropdown and `New pull request` button are present. On the right, buttons for `Create new file`, `Upload files`, `Find file`, and `Clone or download` are shown. The commit history table lists recent changes:

Commit	Description	Time ago
<code>visualfc Merge pull request #898 from hauke96/master</code>		Latest commit 49fd145 4 days ago
<code>build</code>	add archlinux makepkg	2 months ago
<code>liteidex</code>	add style for QScrollBar in sublime.qss	8 days ago
<code>.gitignore</code>	update .gitignore	10 months ago
<code>CONTRIBUTORS</code>	update CONTRIBUTORS	9 months ago
<code>ISSUE_TEMPLATE.md</code>	Update ISSUE_TEMPLATE.md	7 months ago
<code>LICENSE.LGPL</code>	add LICENSE.LGPL to root	2 years ago

# Two Ways To Download Sourceforge OR Github Release



The screenshot shows a web browser window with the URL <https://github.com/visualfc/liteide>. The page content is as follows:

**Documents**

- How to Install <https://github.com/visualfc/liteide/blob/master/liteidex/deploy/welcome/en/install.md>
- FAQ <https://github.com/visualfc/liteide/blob/master/liteidex/deploy/welcome/en/guide.md>
- 安装 LiteIDE [https://github.com/visualfc/liteide/blob/master/liteidex/deploy/welcome/zh\\_CN/install.md](https://github.com/visualfc/liteide/blob/master/liteidex/deploy/welcome/zh_CN/install.md)
- FAQ 中文 [https://github.com/visualfc/liteide/blob/master/liteidex/deploy/welcome/zh\\_CN/guide.md](https://github.com/visualfc/liteide/blob/master/liteidex/deploy/welcome/zh_CN/guide.md)

**Links**

- LiteIDE Home <http://liteide.org>
- LiteIDE Source code <https://github.com/visualfc/liteide>
- Gotools Source code <https://github.com/visualfc/gotools>
- **Release downloads**
  - <http://sourceforge.net/projects/liteide/files>
  - <https://github.com/visualfc/liteide/releases/latest>
- Google group <https://groups.google.com/group/liteide-dev>
- Changes <https://github.com/visualfc/liteide/blob/master/liteidex/deploy/welcome/en/changes.md>

**Donate**

- <http://visualfc.github.com/support>

**New Home Page**

A large curly bracket on the right side of the 'Release downloads' section points to the text **Two Ways To Download**.



# First. Sourceforge

The screenshot shows the SourceForge website for the 'liteide' project. The browser address bar displays the URL <https://sourceforge.net/projects/liteide/files/>. The page features a navigation bar with links to 'Articles', 'Internet Speed Test', and 'Menu'. Below the navigation bar, there are advertisements for 'Buy Bitcoin within 60 seconds' and 'Voip-info.org'. The main content area has tabs for 'Summary', 'Files', 'Reviews', 'Support', and 'Wiki'. The 'Files' tab is active, showing a list of files and folders. A green button 'Download Latest Version' and a blue button 'Get Updates' are visible. The file list table has columns for 'Name', 'Modified', 'Size', and 'Downloads / Week'. The file 'X33.1' is highlighted with a red circle.

Name	Modified	Size	Downloads / Week
<input checked="" type="checkbox"/> X33.1	2017-12-11		1,269
<input type="checkbox"/> X33	2017-11-02		10
<input type="checkbox"/> X32.2	2017-07-18		1
<input type="checkbox"/> X32.1	2017-07-10		0
<input type="checkbox"/> X32	2017-06-13		2

# First. Sourceforge

The screenshot shows a web browser window with the SourceForge project page for 'liteide'. The browser's address bar displays the URL 'https://sourceforge.net/projects/liteide/files/X33.1/'. The page features a navigation bar with 'SOURCEFORGE', 'Articles', 'Internet Speed Test', and a 'Menu' button. Below the navigation bar, there are buttons for 'Download Latest Version' (highlighted in green) and 'Get Updates'. The main content area is a table listing files for 'X33.1'. The table has columns for 'Name', 'Modified', 'Size', and 'Downloads / Week'. The files listed are for various operating systems and architectures, including macOS, Windows, and Linux. A sidebar on the right contains an advertisement for the 'Safe Cities Index 2017' by NEC, sponsored by The Economist Intelligence Unit. The ad includes a list of the top 10 safest cities: Tokyo, Singapore, Osaka, Toronto, Melbourne, Amsterdam, Sydney, Stockholm, Hong Kong, and Zurich, along with '+50 more cities!'. A button at the bottom of the ad says 'ACCESS FULL RANKINGS'.

Download Latest Version  
liteideX33.1.windows-qt5.zip (25.8 MB)

Get Updates

Home / X33.1

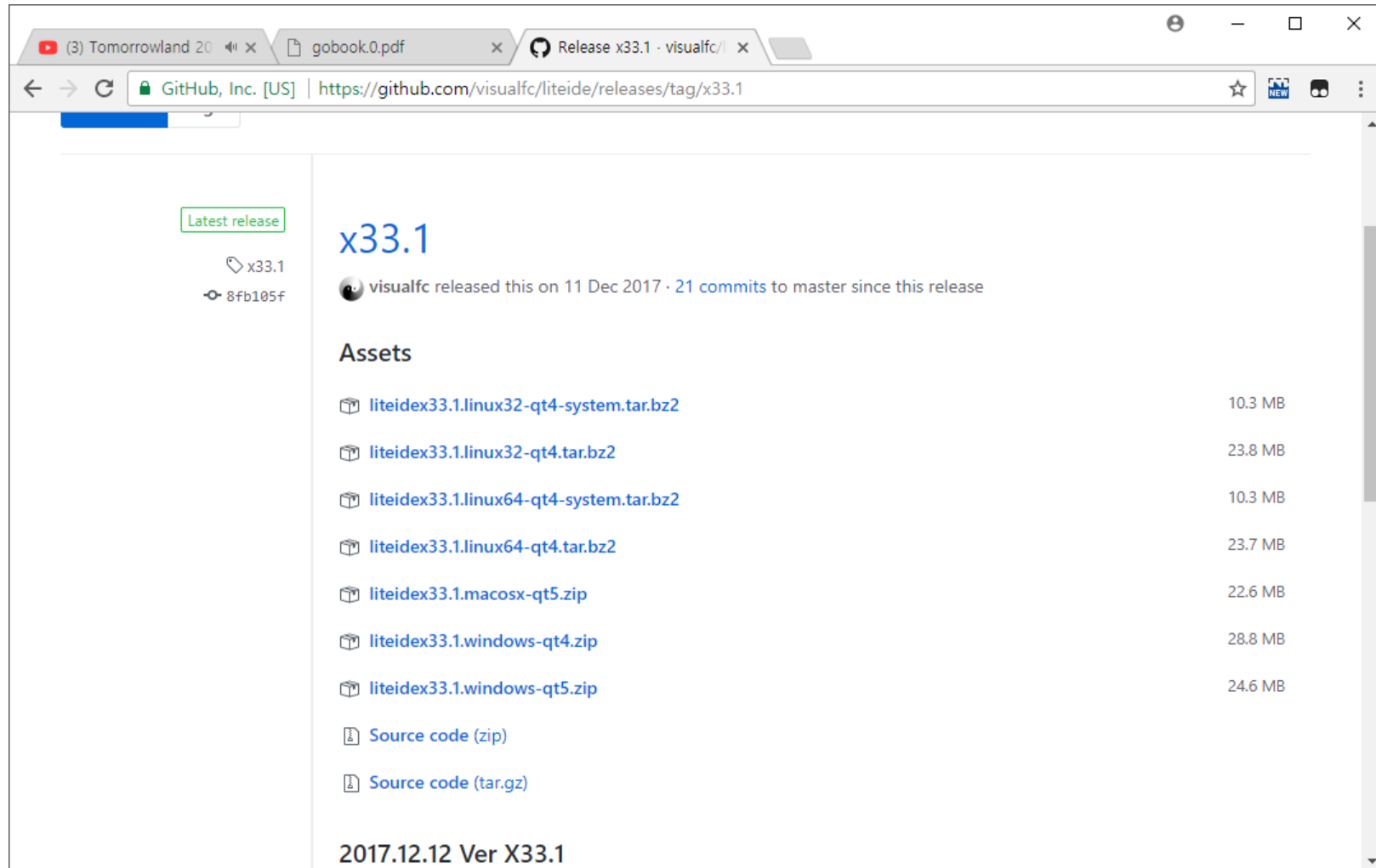
Name	Modified	Size	Downloads / Week
<a href="#">Parent folder</a>			
<a href="#">liteideX33.1.macosx-qt5.zip</a>	2017-12-11	23.7 MB	134
<a href="#">liteideX33.1.macosx-qt4.zip</a>	2017-12-11	30.4 MB	49
<a href="#">liteideX33.1.windows-qt5.zip</a>	2017-12-11	25.8 MB	795
<a href="#">liteideX33.1.windows-qt4.zip</a>	2017-12-11	30.2 MB	100
<a href="#">liteideX33.1.linux64-qt4.tar.bz2</a>	2017-12-11	24.9 MB	169
<a href="#">liteideX33.1.linux64-qt4-system.tar.bz2</a>	2017-12-11	10.8 MB	10
<a href="#">liteideX33.1.linux32-qt4.tar.bz2</a>	2017-12-11	24.9 MB	11
<a href="#">liteideX33.1.linux32-qt4-system.tar.bz2</a>	2017-12-11	10.8 MB	1
Totals: 8 Items		181.5 MB	1,269

**Safe Cities Index 2017**  
With digital security concerns and man-made threats dominating headlines which cities are best prepared to keep citizens safe?

1. Tokyo  
2. Singapore  
3. Osaka  
4. Toronto  
5. Melbourne  
6. Amsterdam  
7. Sydney  
8. Stockholm  
9. Hong Kong  
10. Zurich  
+50 more cities!

ACCESS FULL RANKINGS

# Second. Github Release



The screenshot shows a web browser window with three tabs: "(3) Tomorrowland 20", "gobook.0.pdf", and "Release x33.1 · visualfc/". The address bar shows the URL "https://github.com/visualfc/liteide/releases/tag/x33.1". The page content displays the "x33.1" release, noting it was released on 11 Dec 2017 with 21 commits since the previous release. A list of assets is provided, including tar.bz2 and zip files for Linux, macOS, and Windows, along with source code archives. The version "2017.12.12 Ver X33.1" is noted at the bottom.

Latest release

x33.1

8fb105f

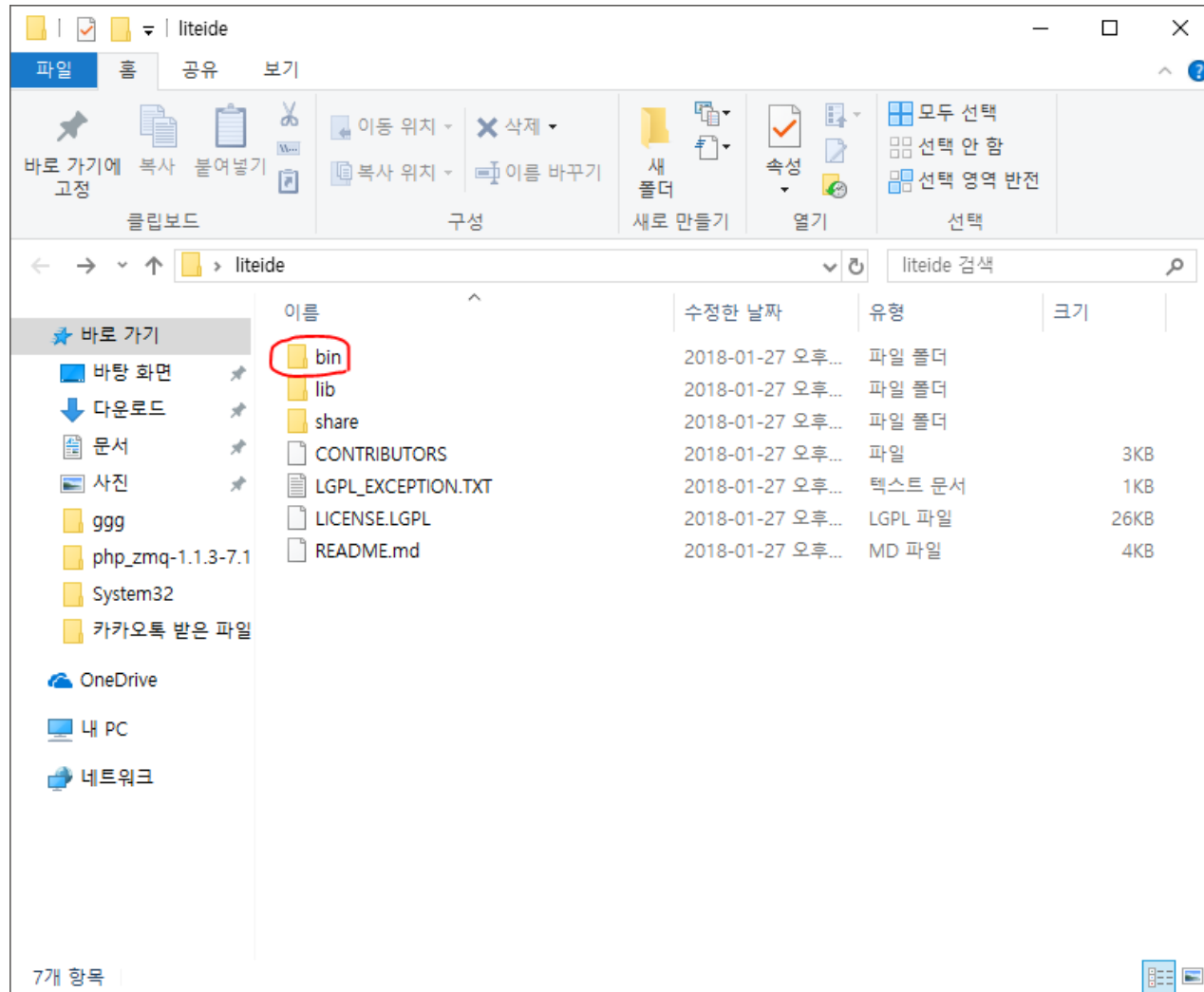
visualfc released this on 11 Dec 2017 · 21 commits to master since this release

### Assets

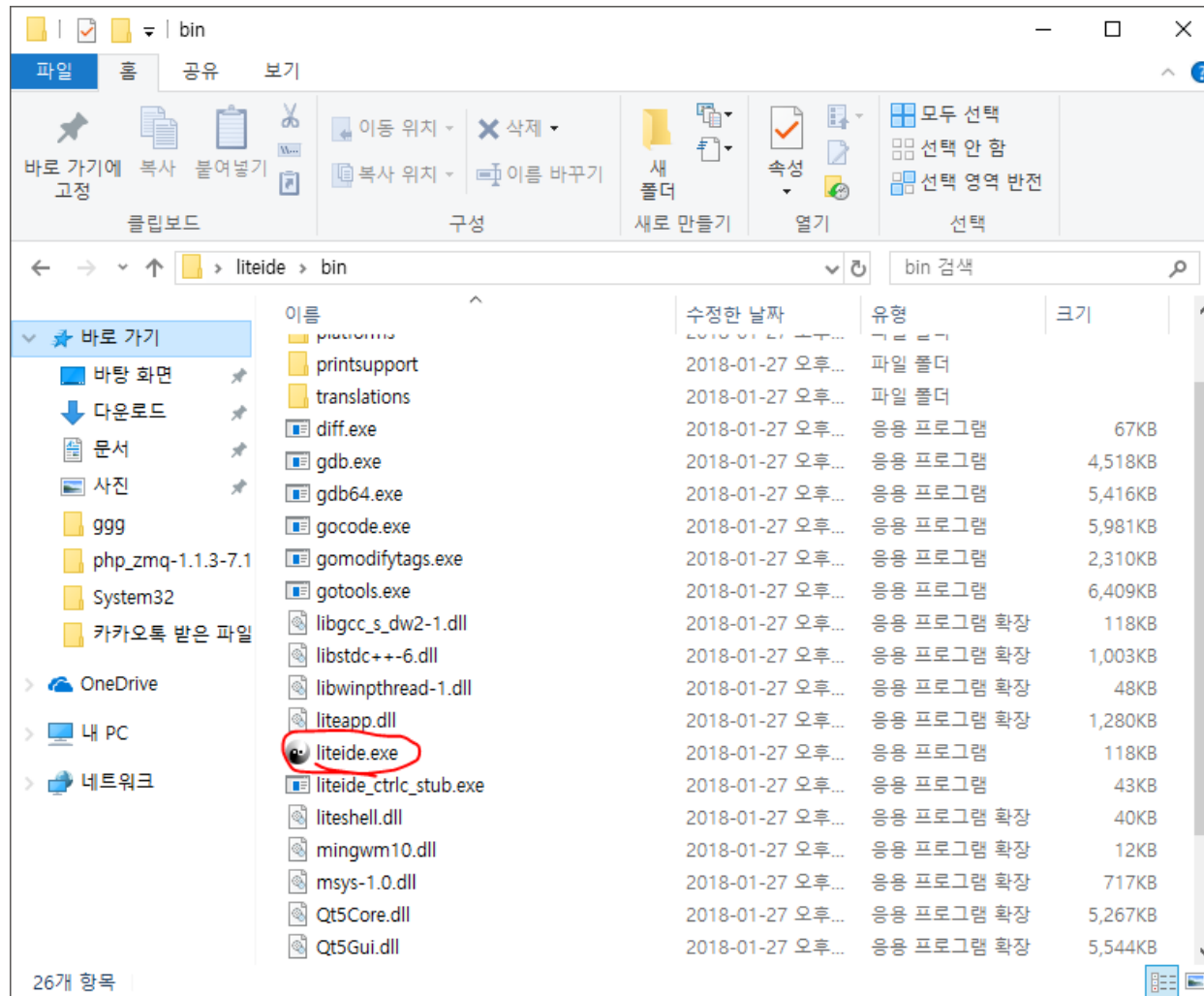
liteidex33.1.linux32-qt4-system.tar.bz2	10.3 MB
liteidex33.1.linux32-qt4.tar.bz2	23.8 MB
liteidex33.1.linux64-qt4-system.tar.bz2	10.3 MB
liteidex33.1.linux64-qt4.tar.bz2	23.7 MB
liteidex33.1.macosx-qt5.zip	22.6 MB
liteidex33.1.windows-qt4.zip	28.8 MB
liteidex33.1.windows-qt5.zip	24.6 MB
Source code (zip)	
Source code (tar.gz)	

2017.12.12 Ver X33.1

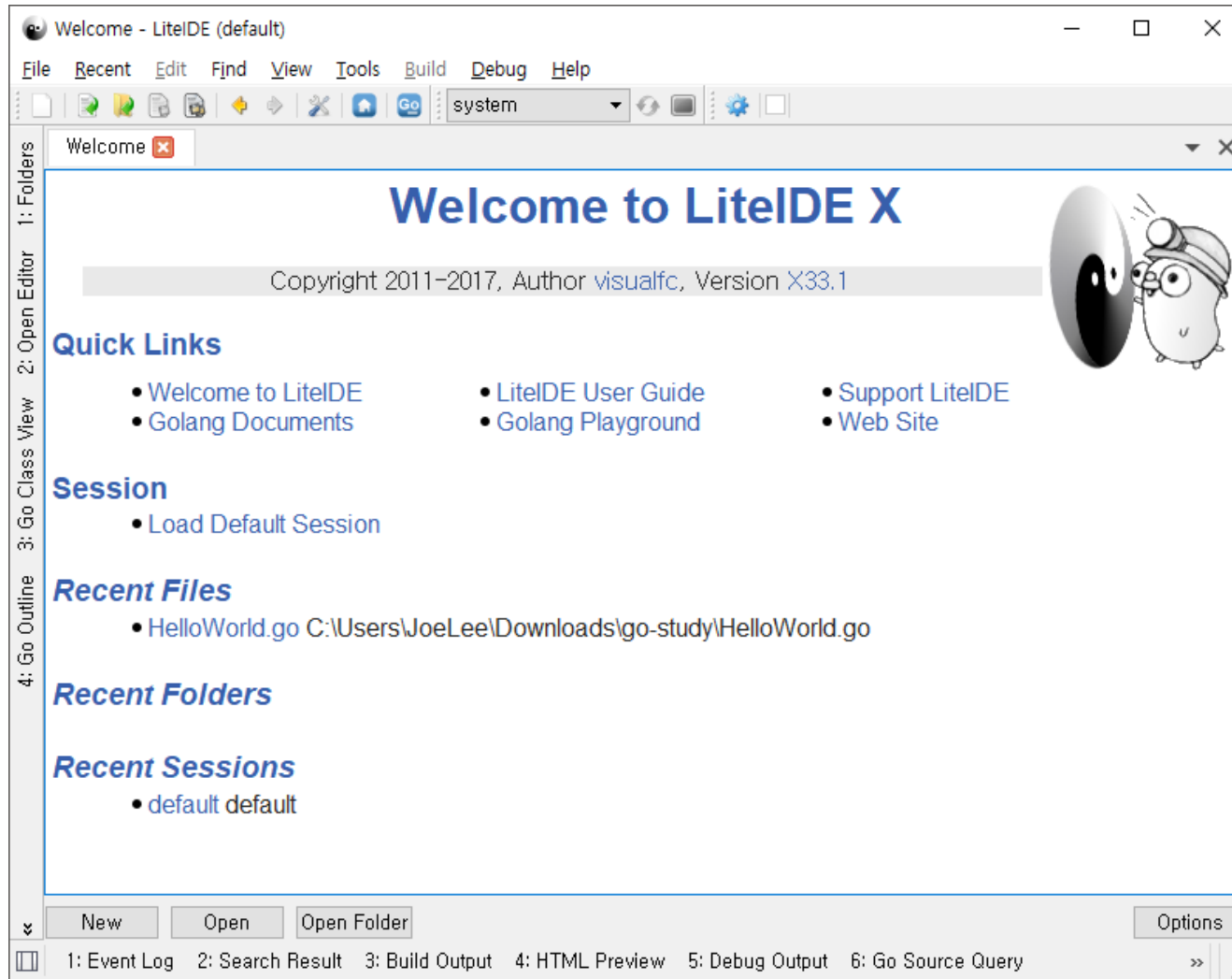
# Both Unzip & Click Executable File



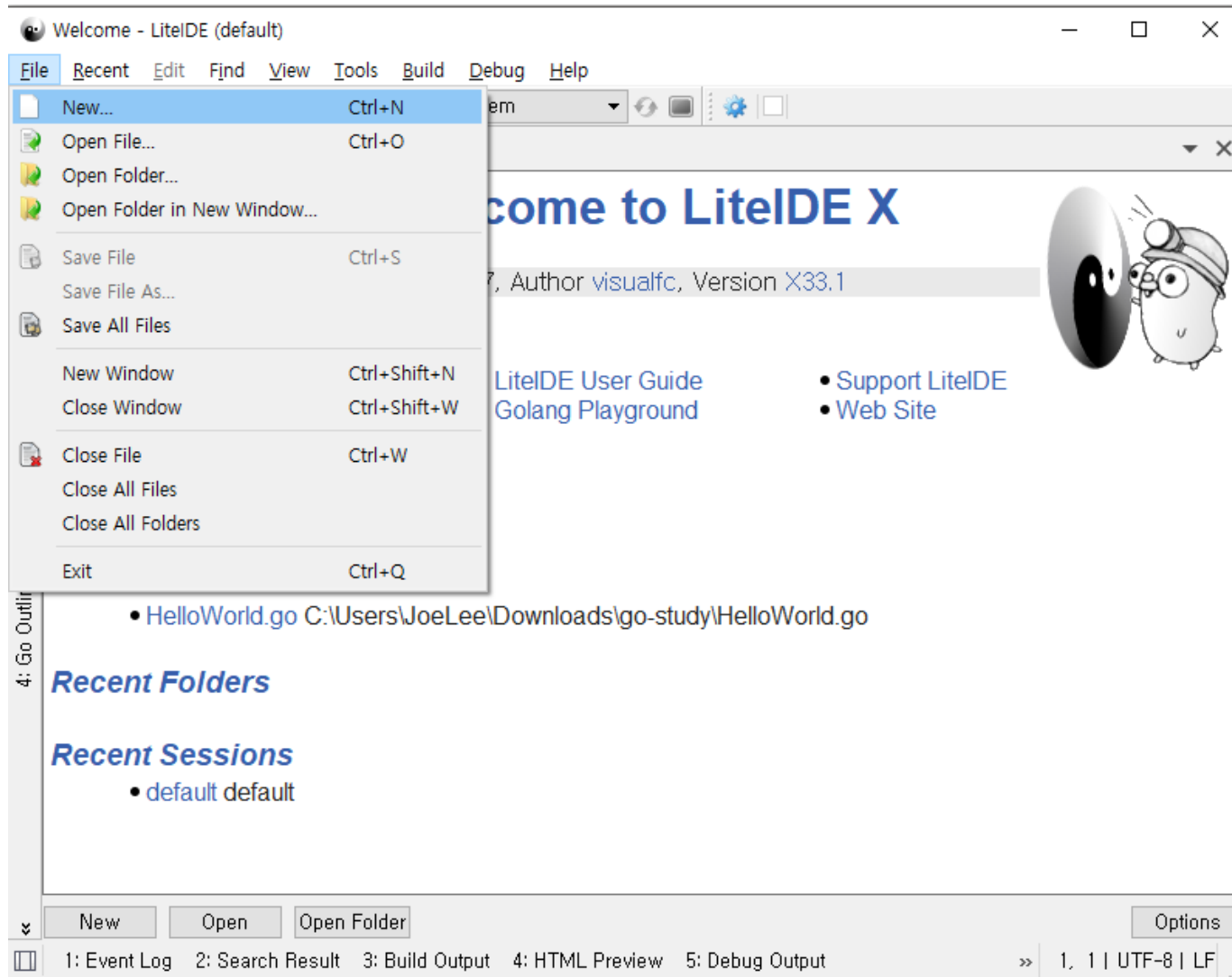
# Both Unzip & Click Executable File



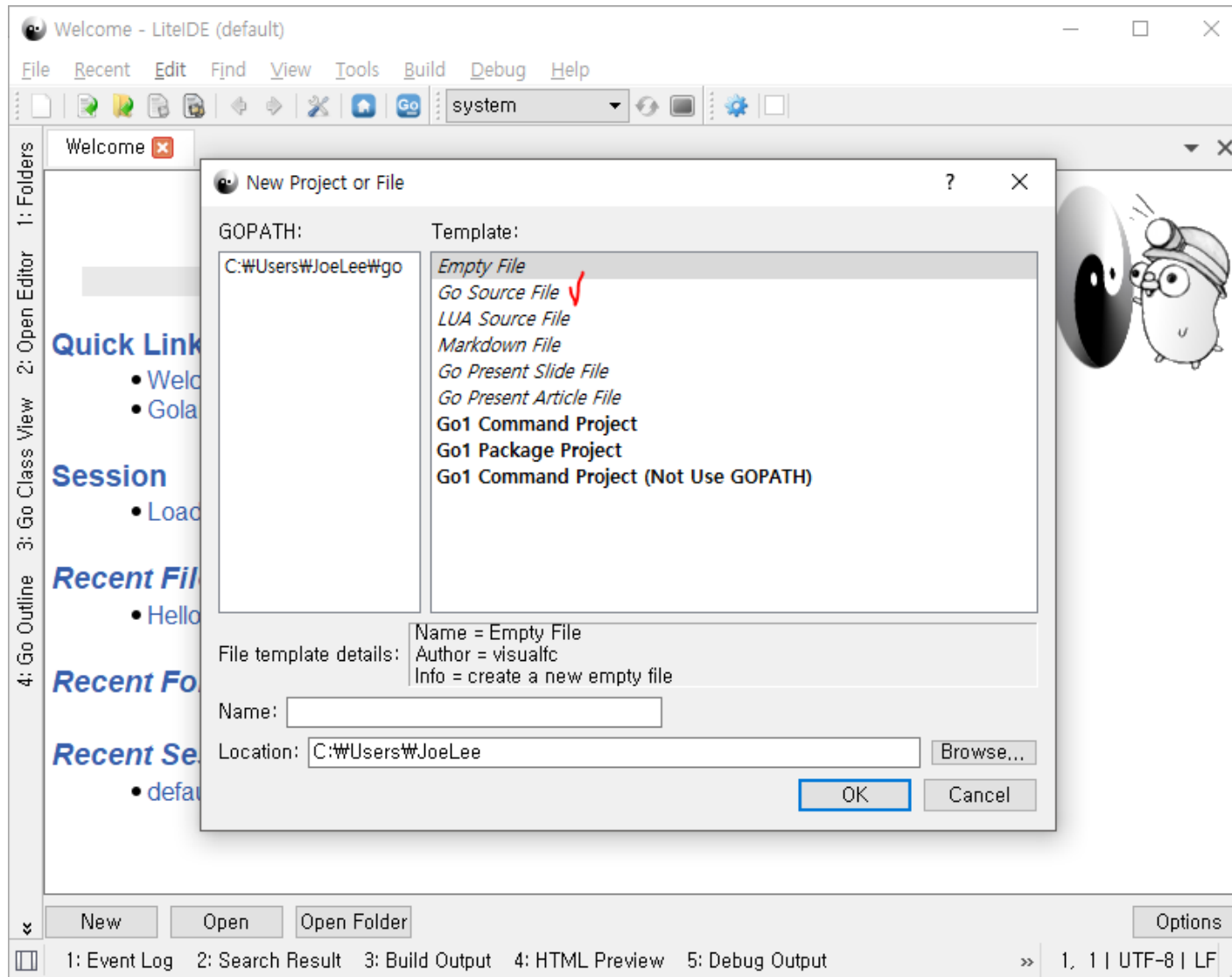
# LiteIDE Were Open!



# Make a New File

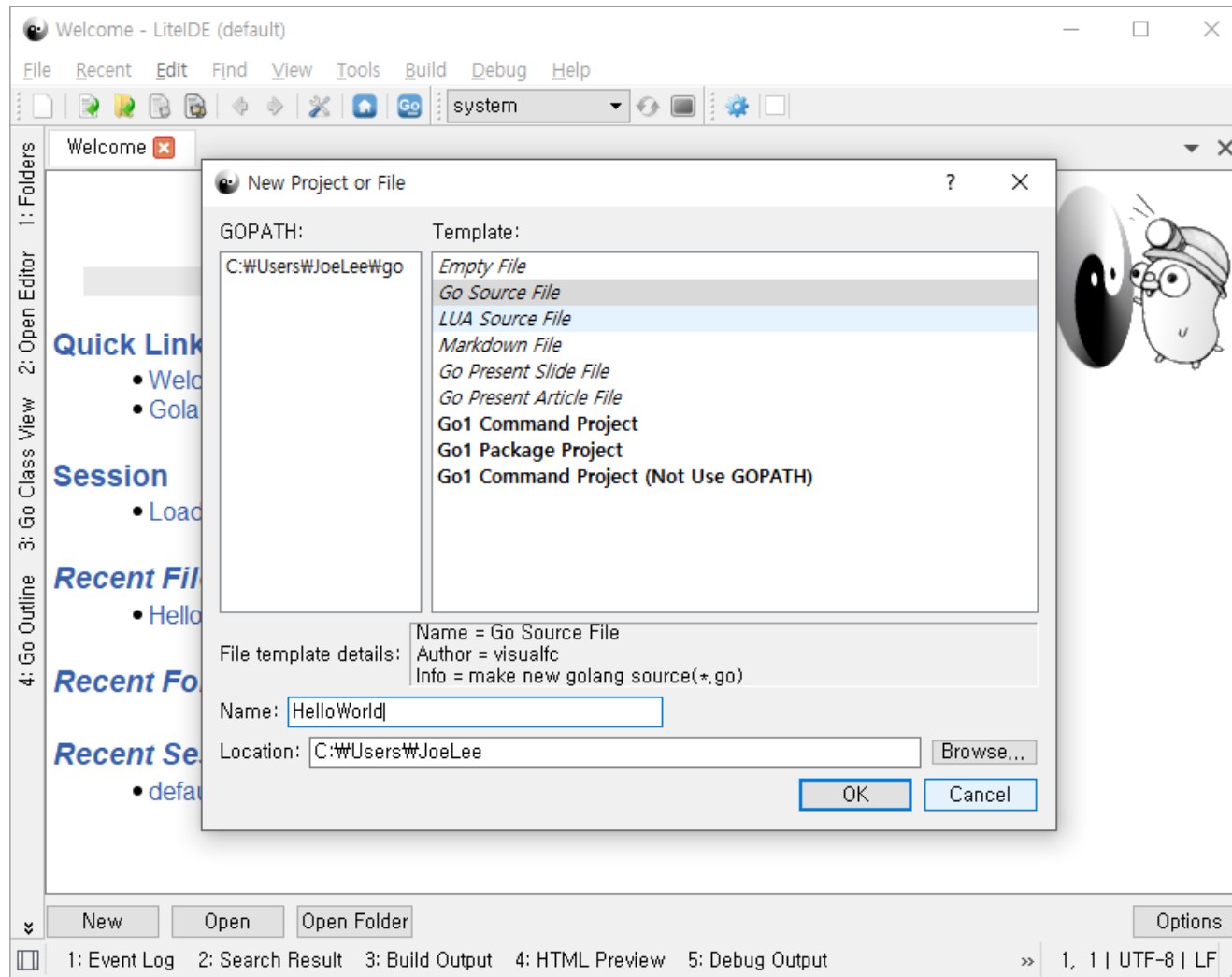


# Make a New File

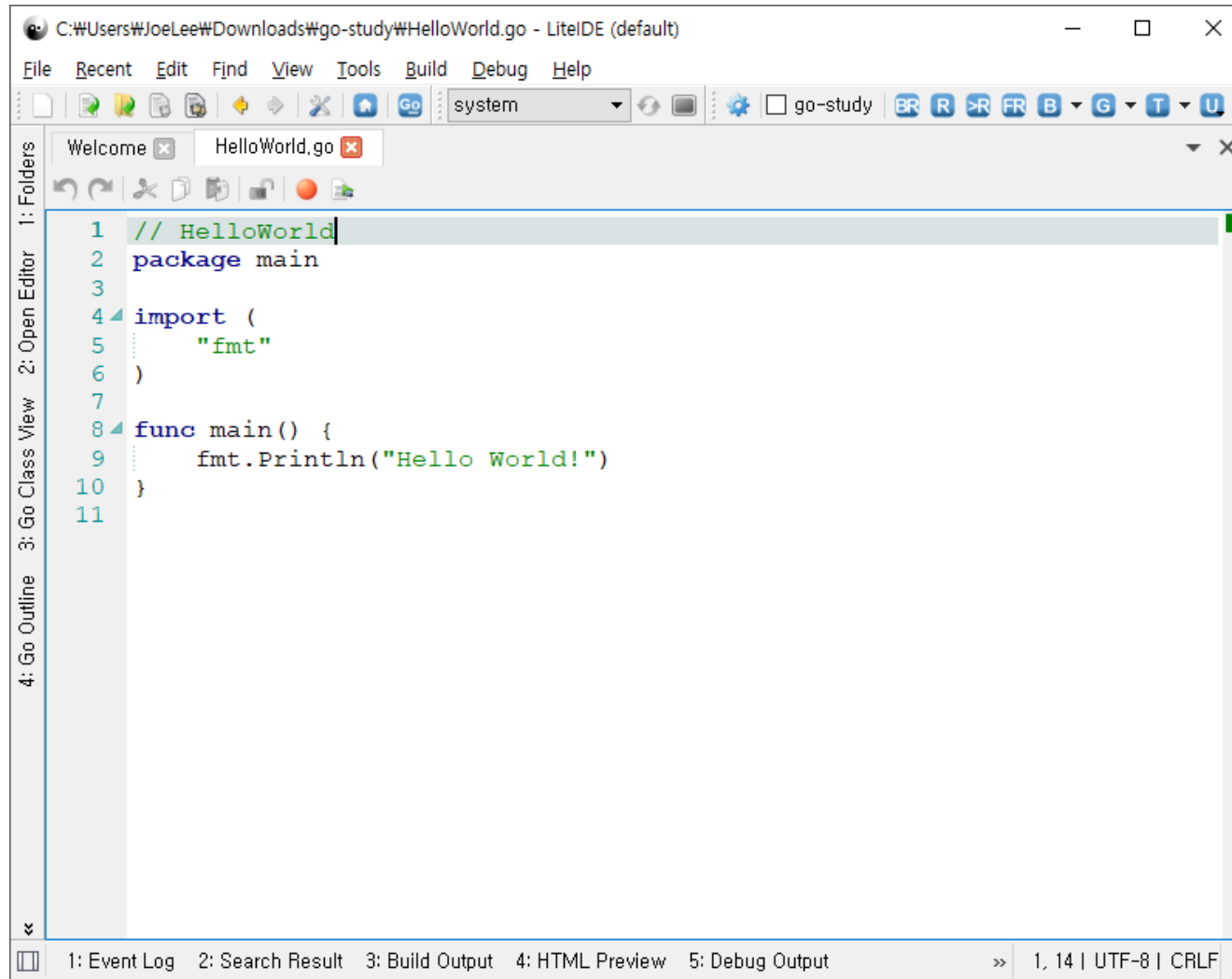




# Make a New File



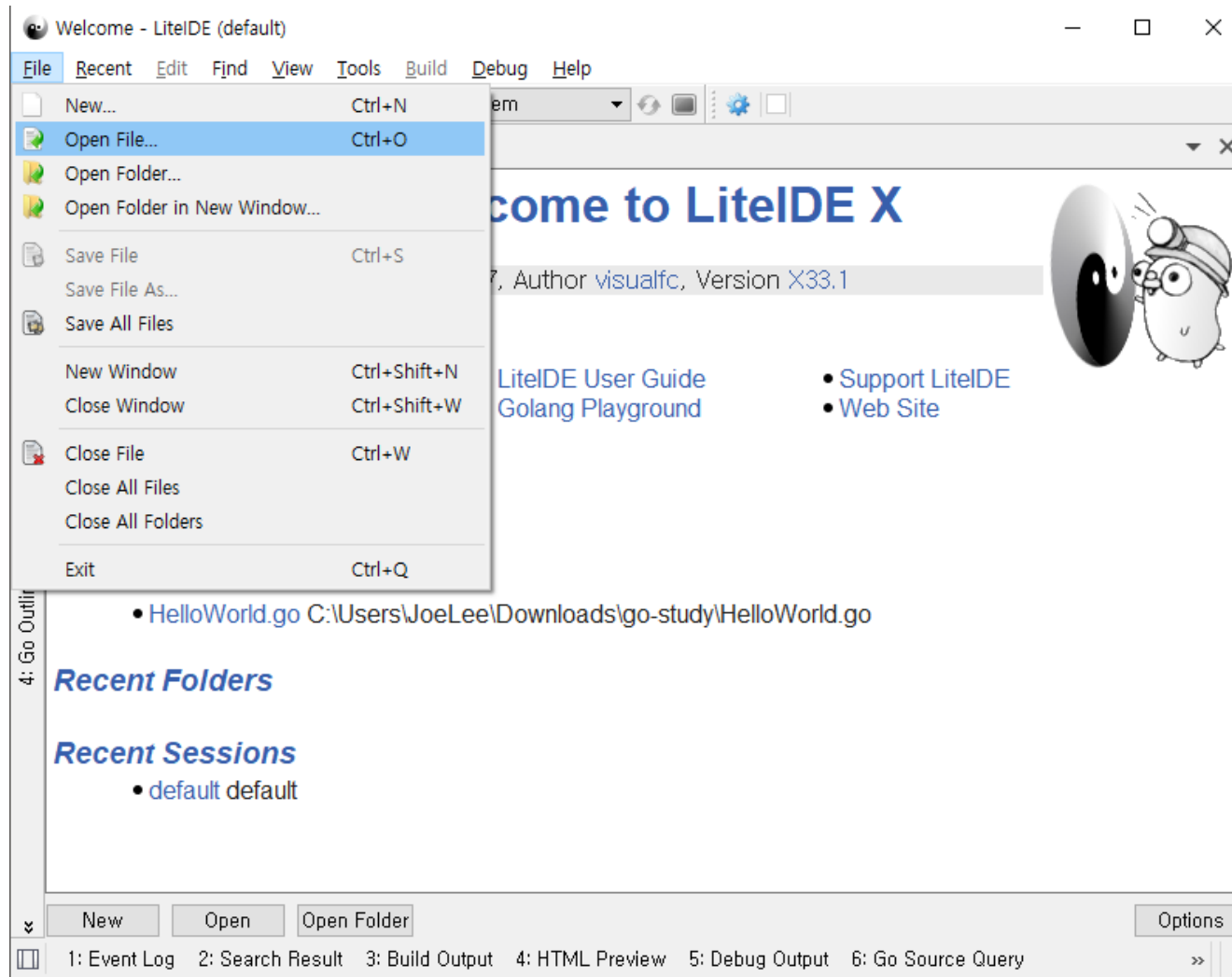
# Make a New File



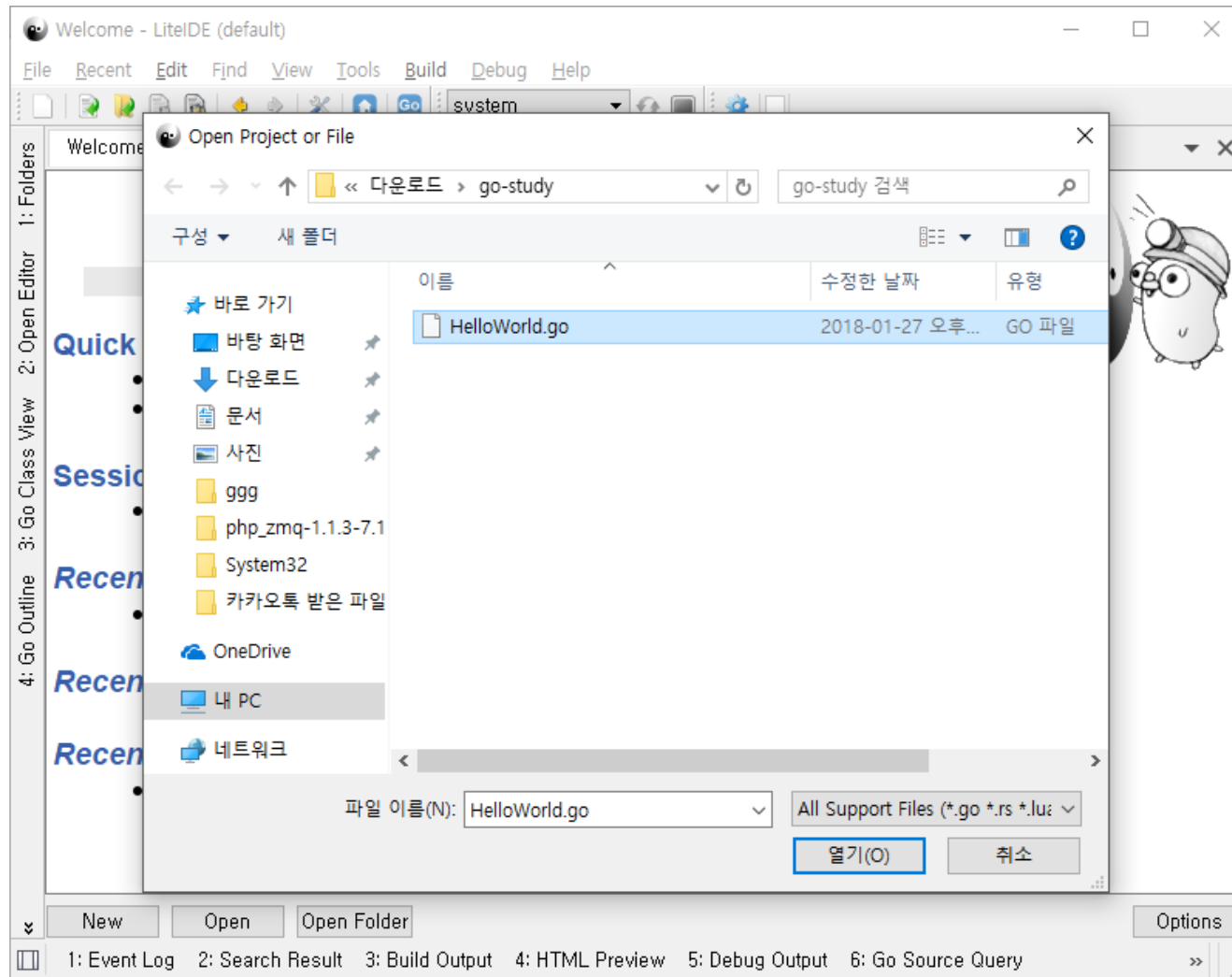
The screenshot shows the LiteIDE IDE interface. The title bar indicates the file path: C:\Users\JoeLee\Downloads\go-study\HelloWorld.go - LiteIDE (default). The menu bar includes File, Recent, Edit, Find, View, Tools, Build, Debug, and Help. The toolbar contains various icons for file operations and development tools. The left sidebar shows a 'Folders' view with a tree structure: 1: Folders, 2: Open Editor, 3: Go Class View, and 4: Go Outline. The main editor window displays the code for HelloWorld.go, which is a Go program that prints 'Hello World!'. The status bar at the bottom shows the current line and column (1, 14) and the encoding (UTF-8 | CRLF).

```
1 // HelloWorld
2 package main
3
4 import (
5     "fmt"
6 )
7
8 func main() {
9     fmt.Println("Hello World!")
10 }
11
```

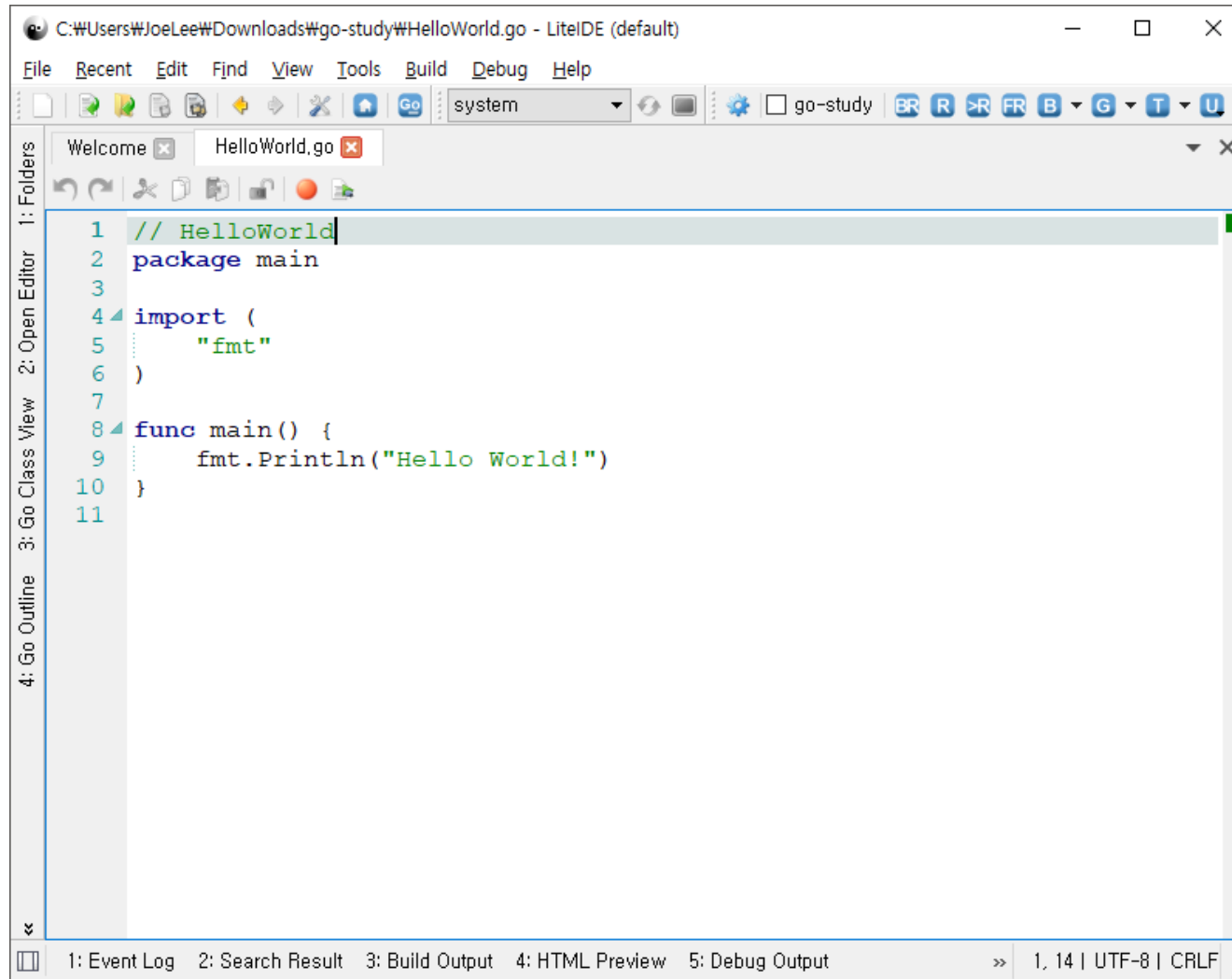
# Open a File



# Open a File



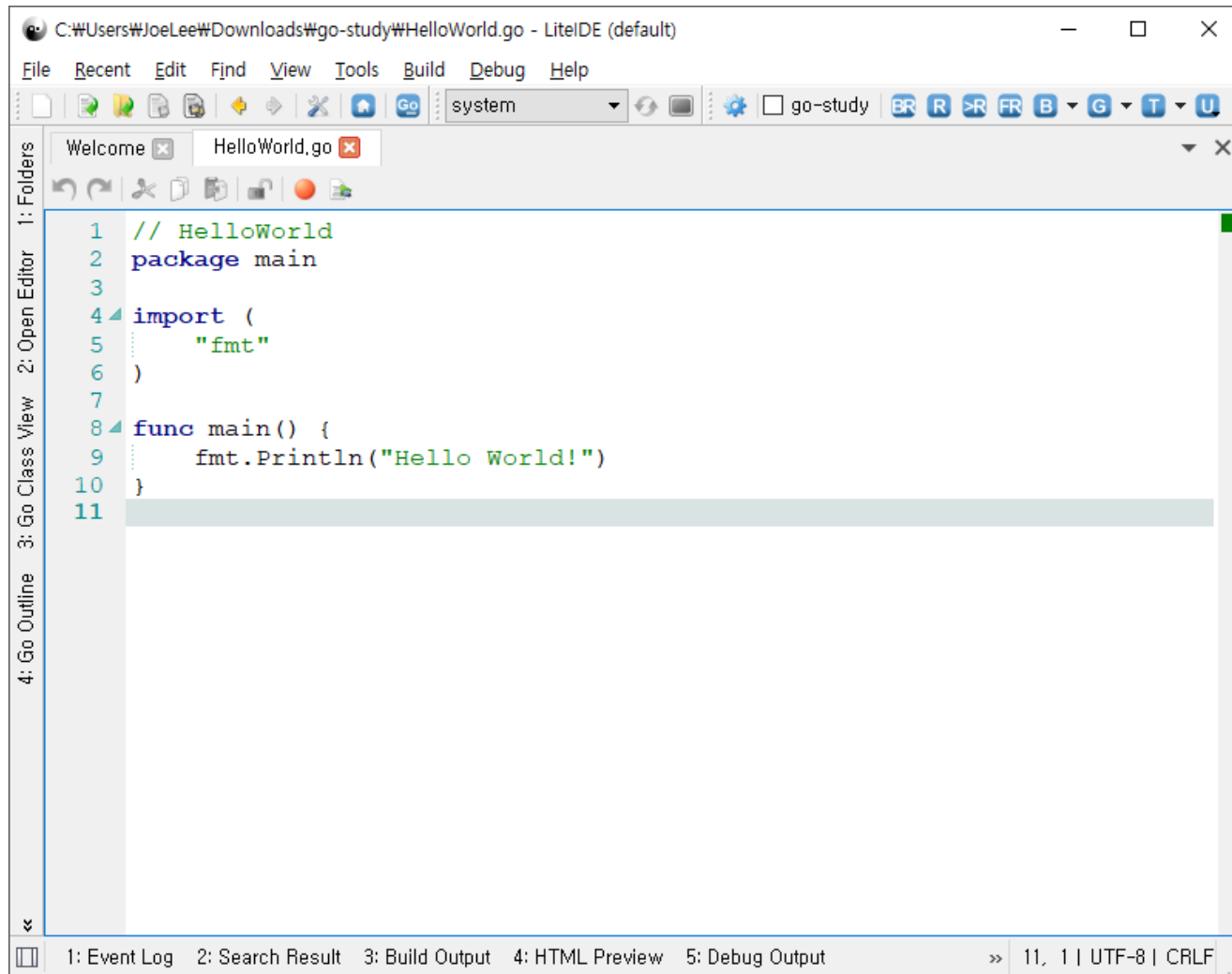
# Open a File



# 0. Hello World in Go

Write HelloWorld

# Let's Build and RUN! Click **BR** Button on Top



# And Finished!

