

Go with Visual Studio Code

The past, present & future

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Visual Studio Code

<https://code.visualstudio.com>

A code editor from Microsoft which is open source, works across platforms and is free.

A desktop tool that combines the **simplicity of a code editor** with what developers need for the **core code-build-debug-commit cycle**



↓ Windows

Windows 7, 8, 10



↓ .deb

Debian, Ubuntu

↓ .rpm

Red Hat, Fedora, CentOS



↓ OS X

OS X Yosemite, El Capitan



editor

lightweight/fast
keyboard centered
file/folders
many languages
many workflows

IDE

project systems
code understanding
debug
integrated build
File>New, wizards
designers
ALM integration
platform tools
...

lightweight/fast
file/folders with project context
many languages
keyboard centered
code understanding
debug
task running

As of July 2017,

- > 1.7 million monthly active users
- > 4000 extensions
- > 30k stars on the repo



<https://github.com/Microsoft/vscode>

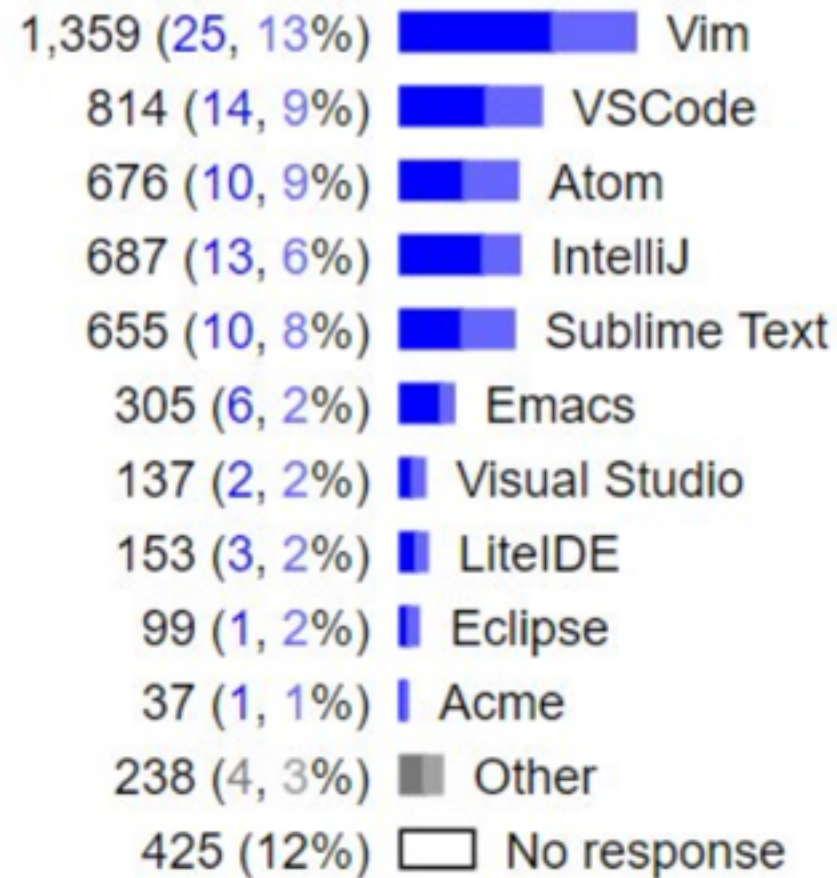
Golang support in Visual Studio Code



<https://github.com/Microsoft/vscode-go>


2nd most preferred editor by Gophers as per Google's user survey in Dec 2016.

My preferred code editor: (ordered choice, up to 2)




Visual Studio | Marketplace

Visual Studio Code > Languages > Go



Go

lukehoban |  910,455 installs | ★★★★★ (114)

Rich Go language support for Visual Studio Code

2 years ago....

Luke Hoban starts working on the Go support in VS Code and implements...

- Code Navigation using **godef** (by @rogpeppe)
- Code completion using **gocode** (by @nsf)
- Code formatting using **goreturns** (by @sqs), **goimports** or **gofmt**
- Build, lint and vet support on file save
- Symbol rename using **gorename**
- Debugging support using **delve** (by @derekparker)

Community contributions

- Test commands to test package, file or function at cursor by **@ironcladlou** (Dan Mace)
- Workspace symbol search by **@newhook** (Matthew Newhook)
- Signature Help (Parameter hints) by **@zsexawerdu** (Paul Kline)
- Snippets for functions during auto-complete, faster look up for packages by **@zippoxer** (Moshe Revah)
- Code coverage on save and via command by **@tampajohn** (John Adams)
- Debugging improvements by **@yuntan** (Yuto Tokunaga)



Me, 1 year ago...

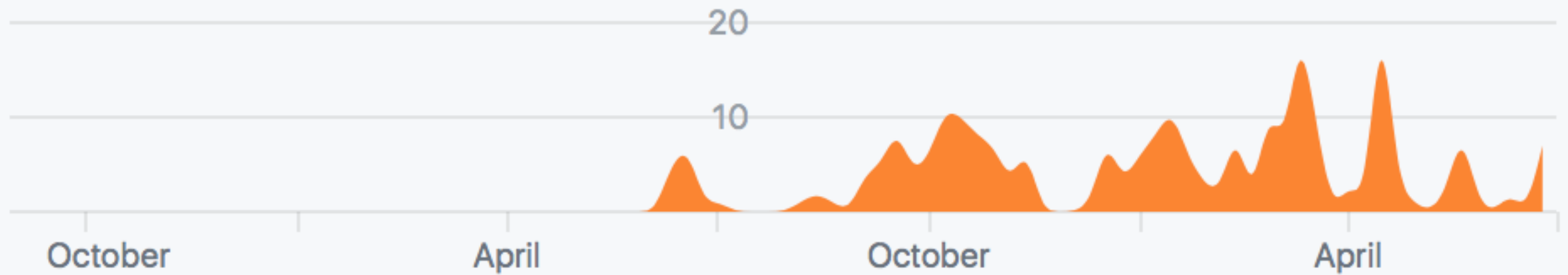
- Using VS Code for the first time
- Hearing about Golang for the first time
- Doing open source for the first time
- What could possibly go wrong?



ramya-rao-a

#1

249 commits / 5,632 ++ / 2,927 --



Fast forward to now, I have...

- Integrated **gomodifytags**(by @fatih) for features like Add/Remove Tags
- Import package during auto complete
- Provide auto-completion for symbols from unimported packages
- Toggle between a Go file and its test file
- Implementing new debugging features from the core product for Go
- Many more improvements across the product

But the best part
was...

Working with the community on features like the below

- Option to use gometalinter (by **@alecthomas**) for linting by **@sijad**
- Option to use gogetdoc (by **@zmb3**) for code navigation by **@leaxoy**
- Generate unit test skeletons by **@cedriclam** using gotests (by **@cweill**)
- Run test code lenses by **@goenning**, references code lenses by **@theSoenke**
- Stubs implementing given interface by **@itsjamie** using impl (by **@josharian**)
- And so much more

The success of the Go support in
VS Code is as much yours (the
Gopher community) as it is mine or
Luke's

What's the future look like?

Go Language Server using the Language Server Protocol

- Go Language Server by Sourcegraph <https://github.com/sourcegraph/go-langserver>
- Language Server Protocol <http://langserver.org>, <https://github.com/Microsoft/language-server-protocol>

Thank You!