

2018-11-27 - golang-tools session - meeting notes

Previous session notes

[2018-11-06 - golang-tools session - meeting notes](#)

Recording

<https://youtu.be/7Rir0AgfiWg>

Attendees

- Chris Broadfoot
- Jonathan Amsterdam
- Aaron Schlesinger
- Michael Matloob
- Jay Conrod
- Ian Cottrell
- bhcleek
- Ramya Rao
- bcmills
- Rebecca Stambler
- Roger Peppe
- Daniel Marti
- Marwan Sulaiman
- ...

Agenda

- Guest speakers:
 - AppEngine vs go/packages - Chris Broadfoot
 - apidiff: an introduction - Jonathan Amsterdam
 - Athens: an update - Aaron Schlesinger (TBC)
- Updates on editor module-mode "betas" from VSCode, Atom and Vim
- Any updates on conversion of tools that fall under the tools umbrella issue (<https://github.com/golang/go/issues/24661>)
- go/packages updates
- go/analysis updates
- cmd/go updates
- LSP updates
- AOB

Notes

- *Editor's note: apologies, this call was rather too long. I over-optimistically tried to cram too much in. Will be looking to limit calls to 40 mins in future*
- Three guest speakers (refer to the recording for details):
 - Chris Broadfoot - on Go 1.11 AppEngine vs go/packages
 - Covered differences between the "old" AppEngine setup vs the new Go 1.11 environments:
 - Standard environment
 - Flexible environment
 - Serverless containers alpha ([by invitation](#) at the time of writing)
 - Chris going to think about whether it makes sense to include the go toolchain could be included by default

- Bottom line is: with any of the new AppEngine environments, using go/packages is support, with the caveat that (for now) in the standard environment people will need to bundle the go toolchain
- Useful links:
 - <https://blog.golang.org/appengine-go111>
 - <https://cloud.google.com/blog/products/application-development/go-1-11-is-now-available-on-app-engine>
- Please following up in <https://groups.google.com/forum/#!forum/golang-tools> with any questions
- Jonathan Amsterdam - apidiff
 - Ultimately trying to answer the question: what has changed between two versions of a package (or module of packages)?
 - The [slides](#) go into the theory of how apidiff works and why there are some nasty edge cases to consider when it comes to answering the question "are these changes backwards compatible?" Including
 - [README](#)
 - [Current implementation](#)
 - [WIP CLI tool](#)
 - [Example usage](#)
 - Will ultimately be used by go release to suggest what version number change is appropriate given the changes that have been made
 - Ian has given some thought to how apidiff the library could be incorporated into the LSP
 - Please following up in <https://groups.google.com/forum/#!forum/golang-tools> with any questions
- Aaron Schlesinger (and Marwan!)
 - Introduction to Athens, how, where and why it could/should be used
 - <https://docs.gomods.io/>
 - Currently in beta release
 - Will be hosting a preview version of Athens publicly at some point soon
 - Question on whether/how Athens can/will understand a go get with a branch name in the future? Marwan has been thinking about this:
 - Waiting for Go 1.12 fix for go mod download
 - Then will work out the details
 - Please following up in <https://groups.google.com/forum/#!forum/golang-tools> with any questions
- VSCode update - Ramya
 - No specific changes to module implementation since last call
 - Number of users reporting issues with completions and go-to-def
 - Rebecca working through the gocode issues
 - godef issue caused by a force-push to master in Ian's fork (VSCode and other tools update using go get -u which caused this to break). Work around for now (see below)
- Atom update - Joe/Zac
 - No specific update
- vim-go update - Billie
 - Still outstanding: working out how to handle context in Vim
 - No specific update
- gocode, godef, goimports and other tools under the [tracking umbrella issue](#)
 - godef
 - Ian is putting together patches to allow us to flip back to Roger's version (at which point we can vendor everything to ensure the vendor is complete for those relying on that)
 - gorename
 - On the list, but a really horrible tool because it's all about calculating reverse transitive dependencies
- go list speed
 - Marwan shared details of a go list cacher that he has been working on <https://github.com/marwan-at-work/golist>

- No specific updates from Bryan's side on go list speed
- Jay also switching to look at cmd/go issues, especially speed over the next few weeks
- Also to note specific go list speed problems on "native" Mac but not within a Docker VM on that same Mac (<https://github.com/golang/go/issues/28739>). 2x slowdown
- cmd/go
 - No further updates this time around
- go/packages
 - No updates
- go/analysis
 - No updates
- LSP - Rebecca
 - No specific update. If people are feeling brave, they can try it out. It should just "work" with VSCode (which is Rebecca has been trying things out)
 - Will share more details as a more official alpha version becomes available
 - Ian has reached out to the maintainer of bingo (apparently an LSP implementation) that has appeared in many comments in VSCode
- AOB
 - go/packages and new files - Daniel Marti
 - Is there a tracking issue for being able to specify non-existent files to go/packages for use in its overlay?
 - No issue; no good solution yet. Daniel to raise an issue
 -

Next call

11 Dec 2018 16:30 UTC

The regular current topics:

- updates on editor module-mode "betas" from VSCode, Atom and Vim
- any updates on conversion of tools that fall under the tools umbrella issue (<https://github.com/golang/go/issues/24661>)
- go/packages updates
- go/analysis updates
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