

The logo for JET BRAINS, featuring the text "JET BRAINS" in white, bold, uppercase letters inside a black square. The square is positioned within a larger, stylized shape that resembles a house or a speech bubble, outlined in a gradient of colors from purple to yellow. A small white horizontal line is located below the text.

**JET
BRAINS**

Go Modules in day to day life

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Go Modules in day to day life

- A brief history of package management
- Go Modules explained
- Resources

1. A brief history of package management

- go get
- various community solutions (xkcd 927)
- godep
- Go Modules

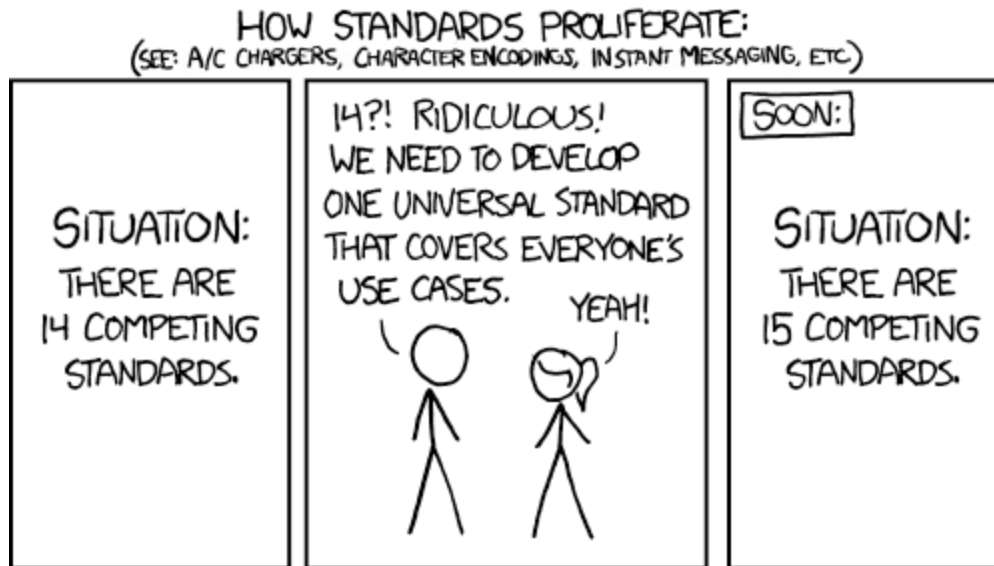
1.1. go get

- add new dependencies to project (GOPATH)
- update existing dependencies (only to latest version)
- cannot remove unused dependencies

1.2. Various community solutions

- too many tools created (hard to choose a single one)
- different levels of support
- different level of features (some seemed to converge)
- no clear winner

1.2.5. Various community solutions



Copyright: <https://xkcd.com/927>

1.3. godep



- Go Team's experiment on Package Management
- Implemented mostly by community
- Converge to a single, widely used, tool

2. Go Modules

- Announced in February 2018
- Based on learnings from godep
- Changes how we think about dependency management
- Optional in Go 1.11 (GO111MODULES=on)
- Default outside of GOPATH since Go 1.12
- Default since Go 1.13
- Supported in GoLand since May 2018

2.1. New features

- New files “go.mod” and “go.sum”
- Definition of GOPROXY
- Can work outside of GOPATH

2.2. Go Modules commands

- `go mod init` – create new module
- `go get` – add/update dependencies
- `go mod tidy` – remove unused dependencies
- `go list -m all` – list dependencies
- `go mod vendor` – vendor dependencies

3. Demo Time

4. Resources

- <https://github.com/goproxy/goproxy.cn>
- <https://blog.golang.org/using-go-modules>
- <https://github.com/golang/go/wiki/Modules>
- <https://research.swtch.com/vgo>
- <https://blog.jetbrains.com/go>

**Thank you
for your attention**
