

Building a central Go modules repository: GoCenter's back to the future.

GopherCon 2019 Lightning Talk
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About me



- Dev Manager, Community & Partner Engineering team
- Love solving devops enablement problems

We ❤️ Golang



go modules



@jfrog @ankushchadha111

reproducible builds

@jfrog @ankushchadha111



Use go modules correctly

```
1 module github.com/stretchr/testify  
2  
3
```

```
1 module github.com/stretchr/testify  
2  
3 require (  
4     github.com/davecgh/go-spew v1.1.0  
5     github.com/pmezard/go-difflib v1.0.0  
6     github.com/stretchr/objx v0.1.0  
7 )  
8  
9
```

Source of immutable dependencies

<https://gocenter.io>

Projects that adopted go modules

github.com/stretchr/testify X

github.com/stretchr/testify

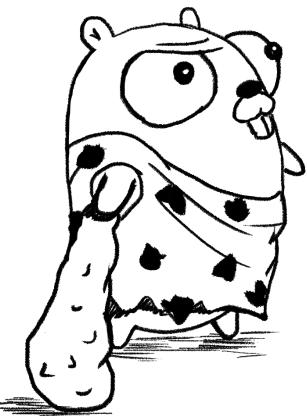
Version: v1.3.0 ▼[README](#)[Mod File](#)[Dependencies \(3\)](#)[Used By \(4520\)](#)[Versions \(97\)](#)

```
1 module github.com/stretchr/testify
2
3 require (
4     github.com/davecgh/go-spew v1.1.0
5     github.com/pmezard/go-difflib v1.0.0
6     github.com/stretchr/objx v0.1.0
7 )
8
9
```



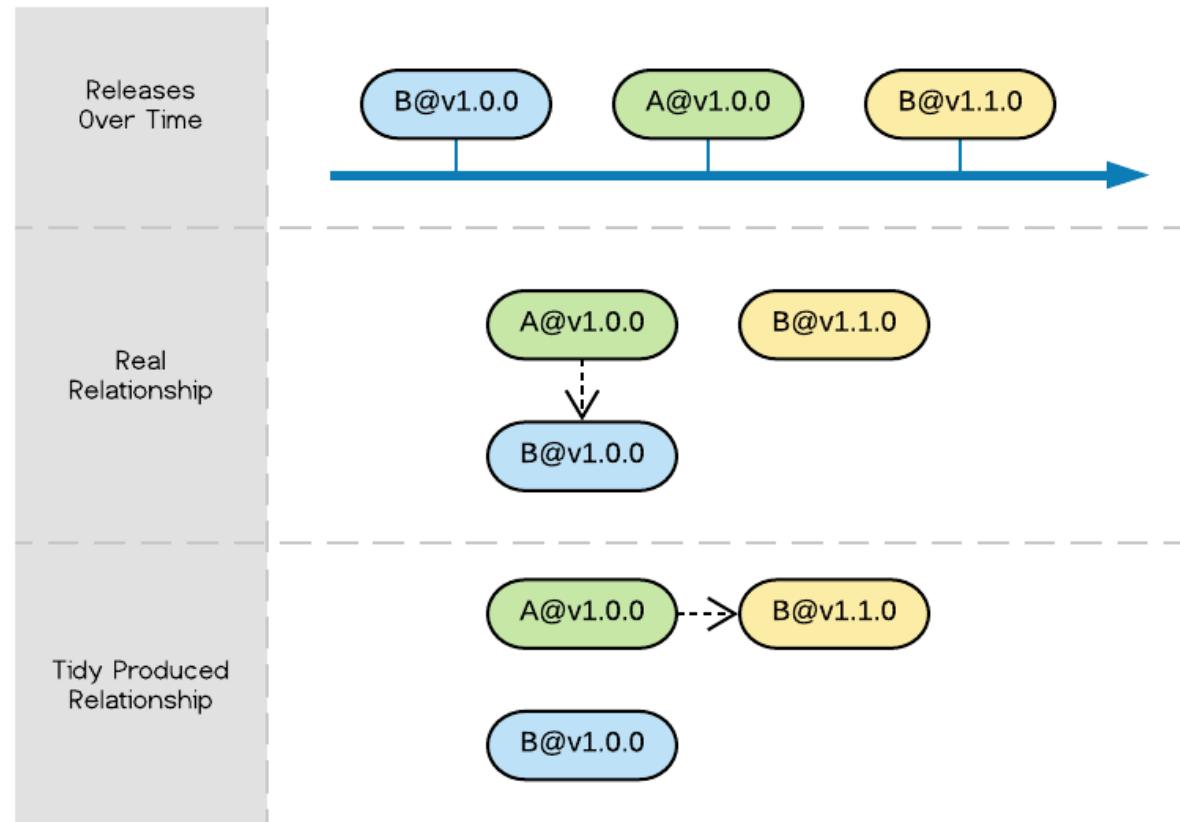
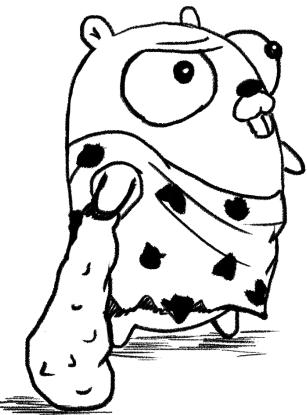
Projects that
haven't adopted go
modules yet

go mod
tidy



go mod
init

go mod
tidy



github.com/nats-io/nats X

github.com/nats-io/nats

Version: v1.7.2 ▼[README](#)[Mod File](#)[Dependencies \(6\)](#)[Used By \(23\)](#)

>

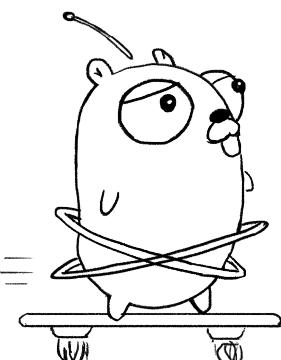
```
1 module github.com/nats-io/nats
2
3
```



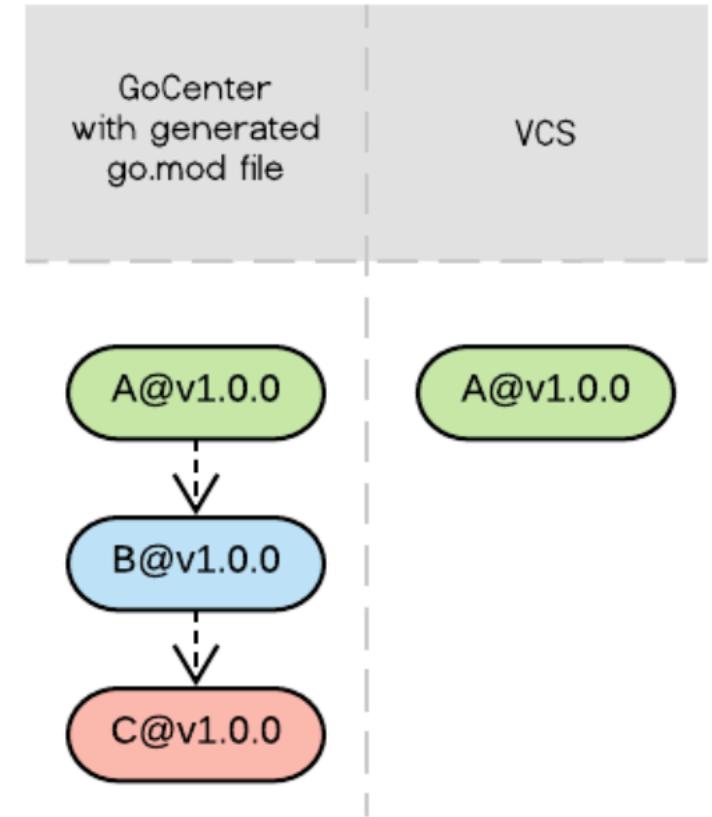
i It seems this project has not adopted Go modules yet. Here's a suggested `go.mod` file for the latest version.

Source: `go mod tidy` on 10th July 2019, 11:02:39

```
1 module github.com/nats-io/nats
2
3 go 1.12
4
5 require (
6   github.com/golang/protobuf v1.3.2
7   github.com/nats-io/gnatsd v1.4.1
8   github.com/nats-io/go-nats v1.7.2
9   github.com/nats-io/nkeys v0.0.2
10  github.com/nats-io/nuid v1.0.1
```



go mod init



[desired interoperability between Go Modules Mirror](#)

github.com/knative/build X

github.com/knative/build

Version: v0.7.0 ▼[README](#)[Mod File](#)[Dependencies \(71\)](#)[Used By \(1\)](#)[Versions \(16\)](#)

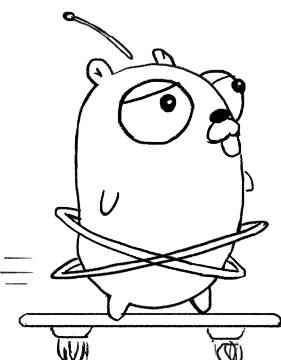
```
1 module github.com/knative/build
2
3
```



i It seems this project has not adopted Go modules yet. Here's a suggested [go.mod](#) file for the latest version.

Source: [go mod init](#)

```
1 module github.com/knative/build
2
3 go 1.12
4
5 require (
6   cloud.google.com/go v0.34.0
7   contrib.go.opencensus.io/exporter/stackdriver v0.0.0-20190211065954-c06c82c832ed
8   github.com/Azure/go-autorest v10.6.2+incompatible
9   github.com/aws/aws-sdk-go v1.18.5
10  github.com/beorn7/perks v0.0.0-20180321164747-3a771d992973
11  github.com/census-instrumentation/opencensus-proto v0.1.0
```



Best Practices

- Use populated go.mod file
- Avoid pseudo-versions
- Tag release, follow semver

Thank you