

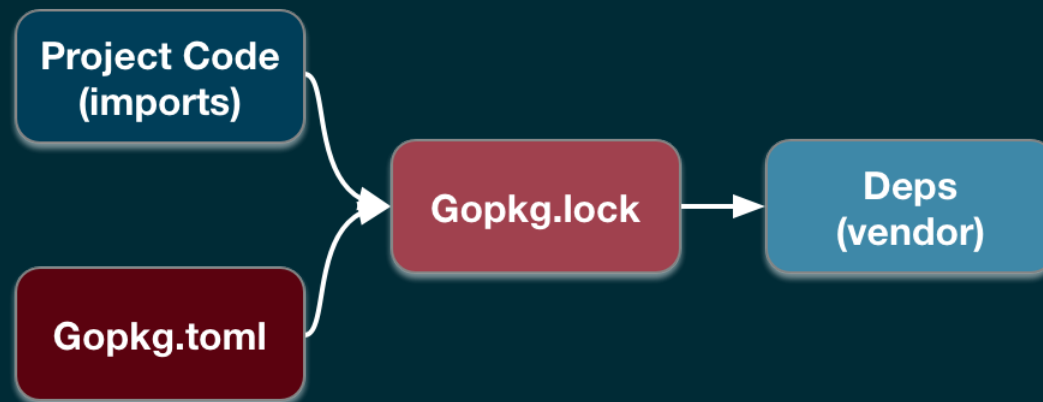
# DEP IN 10 MINUTES

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*Gophers by Ashley McNamara*

<http://carolynvs.com/dep-in-10>



# Manifest - Gopkg.toml

```
[[constraint]]  
  name = "github.com/sdboyer/deptest"  
  source = "http://github.com/carolynvs/deptest"  
  version = "0.8.0"  
  
[[constraint]]  
  branch = "master"  
  name = "github.com/pkg/errors"
```

*maintained by you*

## Lock - Gopkg.lock

```
[[projects]]  
  name = "github.com/sdboyer/deptest"  
  revision = "ff2948a2ac8f538c4ecd55962e919d1e13e74baf"  
  version = "v0.8.1"  
  
[[projects]]  
  name = "github.com/pkg/errors"  
  revision = "17b591df37844cde689f4d5813e5cea0927d8dd2"  
  version = "v0.7.1"
```

*maintained by dep*

*What the what? Why v0.8.1 instead of 0.8.0? Where did master go?*



They are more what you'd call "guidelines"...

## dep prefers ranges over specific versions

1.2.3 becomes `>=1.2.3, <2.0.0`

0.2.3 becomes `>=0.2.3, <0.3.0`

0.0.3 becomes `>=0.0.3, <0.1.0`

Use `=0.8.1` to pin to a version

## Vendor Directory

Owned by dep  
No files are safe from its tyranny!



Check it in for a smug sense of superiority

# dep init

*Doing probably the right thing since that PR the other week*



## You are making a fresh start

`dep init`

1. Identifies your dependencies.
2. Checks if your dependencies use dep.
3. Picks the highest compatible version for each dependency.

## You are already using another dependency manager

`dep init`

1. Imports your existing configuration.
2. Checks if your dependencies use dep.
3. Falls back to the simple case to fill in gaps.

## Your GOPATH isn't a steaming

`dep init -gopath`

1. Uses the branch/version/revision found in GOPATH.
2. Checks if your dependencies use dep.
3. Falls back to the simple case to fill in gaps.

# Your dependencies are already vendored

dep init

1. Makes a backup of vendor and takes over.
2. Generates an initial set of configuration files.  
*These do not match your original vendor!*
3. Leaves it up to you to fix them by hand... Sorry.



## dep ensure

- Run on fresh clones if you don't check-in vendor
- Run after modifying your manifest

## dep status

PROJECT	CONSTRAINT	VERSION	REVISION	LATEST
github.com/Masterminds/semver	branch 2.x	branch 2.x	139cc09	c2e7f6c
github.com/Masterminds/vcs	^1.11.0	v1.11.1	3084677	3084677
github.com/armon/go-radix	*	branch master	4239b77	4239b77

## How do I add a dependency?

1. Add an import statement.
2. Run dep ensure.

## How do I update a dependency?

```
dep ensure -update -n
```

```
dep ensure -update
```

```
dep ensure -update github.com/carolynvs/loves-ponies
```

```
dep ensure -update github.com/carolynvs/loves-ponies@v2.0.1
```



## How do I remove a dependency?

1. Stop using it in your code.
2. Run `dep ensure`.
3. If it was in your manifest, you may remove it.

## How do I test uncommitted changes to a dependency?

1. Delete it from the vendor directory.
2. Avoid running `dep ensure` for a wee bit.
3. Make your changes to the project in your GOPATH.

## The Floor is Lava

The config file format is stable.

dep init is ready for you to try out!

dep ensure has big changes fermenting in a PR.

## Resources

[github.com/golang/dep](https://github.com/golang/dep)

[github.com/Masterminds/semver](https://github.com/Masterminds/semver) for supported operators

Thank you



@carolynvs

<http://carolynvs.com/dep-in-10>