

# BUILDING AN EDITOR ~~PLUGIN~~ PACKAGE FOR GO

*Joe Fitzgerald,* DIRECTOR, CLOUD FOUNDRY  
SERVICES @ PIVOTAL

# MEET JOE

- ▶ I work @ **Pivotal**™ (<http://pivotal.io>)
- ▶ I sell and deliver professional services for  **CLOUD FOUNDRY**™
  - ▶ You can find me at:
    - ▶ **GitHub**: @joefitzgerald
    - ▶ : @joefitzgerald
    - ▶ **Pivotal**™: jfitzgerald@pivotal.io

**AND...**

**SINCE MARCH**

**I'VE BEEN WORKING ON A GO PACKAGE FOR ATOM**

**I KNOW WHAT YOU ARE THINKING...**

**YOU ARE CRAZY**

**BECAUSE I ♥:**

*Vim, Emacs, Sublime, IntelliJ, Eclipse, LiteIDE... Acme (?)*

BRING ALL THE  
PITCHFORKS!



**YOU'RE RIGHT**

**I'M NOT HERE TO CHANGE YOUR MIND**

**SO WHY'D YOU DO IT?**

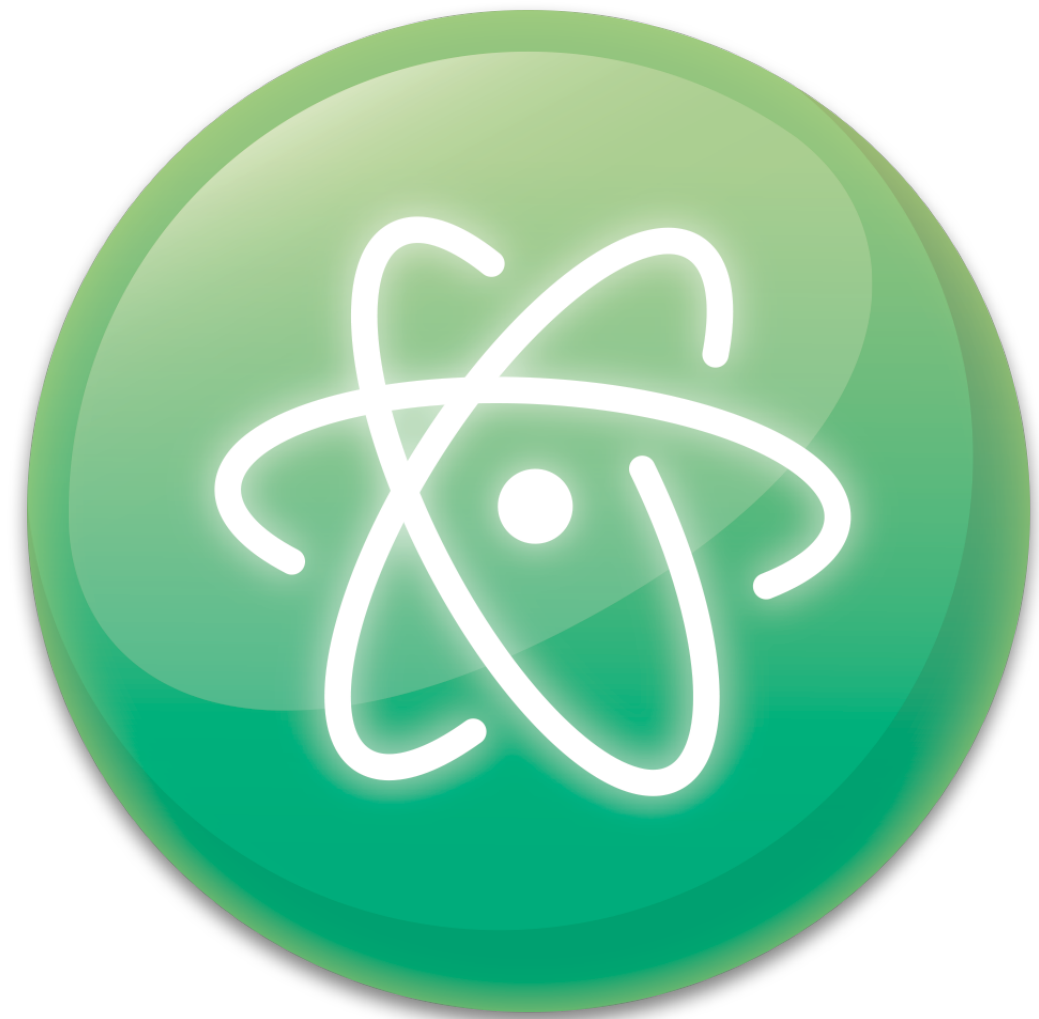
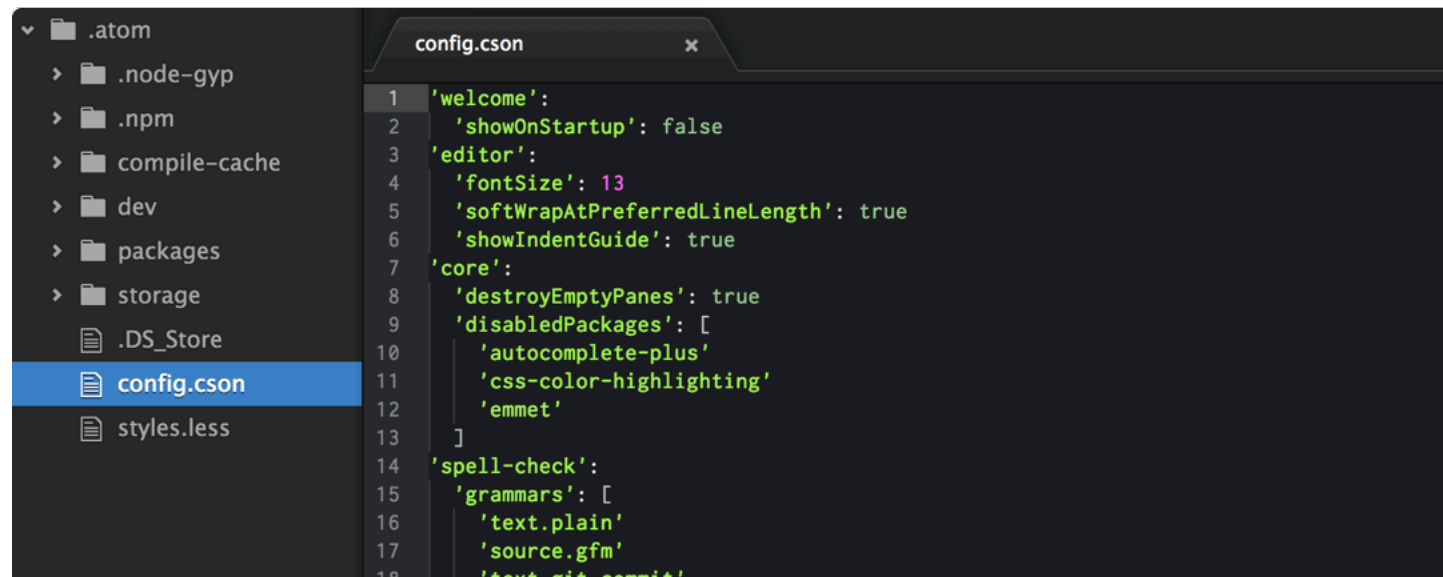


**IT WAS MARCH**

**AND IT SOUNDED LIKE A GOOD IDEA (?)**

# MEET ATOM

- ▶ Built By: **GitHub**
- ▶ Find It At: `atom.io`
- ▶ License: `MIT` – Yes, It's Open Source!



# BUT...

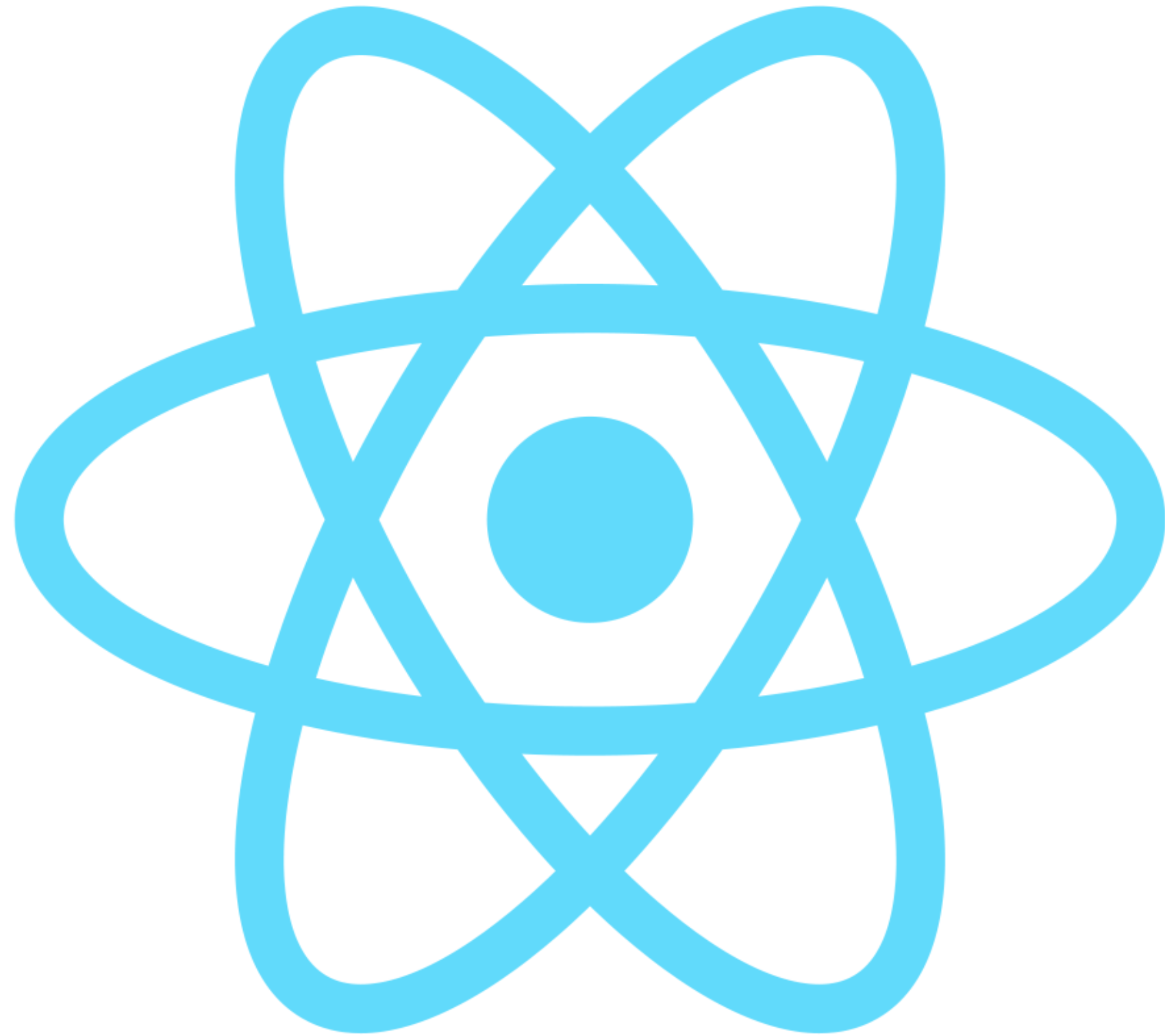


+



**= SLOW, RIGHT?**

**REACT**  
**THE DEFAULT EDITOR VIEW**  
AS OF JULY 23, 2014  
*= Much Faster*



**I CREATED A PACKAGE**

**IT'S CALLED:** go-plus

# RIGHT NOW IT SUPPORTS:

- ▶ **Formatting source using** `gofmt`
- ▶ **Formatting and managing imports using** `goimports`
  - ▶ **Code quality inspection using** `go vet`
    - ▶ **Linting using** `golint`
  - ▶ **Syntax checking using** `go build` **and** `go test`
- ▶ **Display of test coverage using** `go test -coverprofile`

## go-plus

Adds `gofmt`, `goimports`, `go vet`, `golint`, `go build` and `go test` functionality for the go language.



joefitzgerald

2.0.1

4543



22



Repo



Bugs



Versions



License

Flag as spam or malicious

# go-plus – Improved Go Experience In Atom

build passing

BUILD PASSING

You can install `go-plus` by opening Atom, going to `Preferences` > `Packages`, and searching for `go-plus`. Alternatively, run `apm install go-plus` in your terminal.

This package adds extra Atom functionality for the go language:

- Formatting source using `gofmt`
- Formatting and managing imports using `goimports`
- Code quality inspection using `go vet`
- Linting using `golint`
- Syntax checking using `go build` and `go test`
- Display of test coverage using `go test -coverprofile`

## go-plus

Adds `gofmt`, `goimports`, `go vet`, `golint`, `go build` and `go test` functionality for the go language.



joefitzgerald

2.0.1 4543



22

Repo

Bugs

Versions

License

Flag as spam or malicious

# go-plus – Improved Go Experience In Atom



build passing BUILD PASSING

You can install `go-plus` by opening Atom, going to `Preferences` > `Packages`, and searching for `go-plus`. Alternatively, run `apm install go-plus` in your terminal.

This package adds extra Atom functionality for the go language:

- Formatting source using `gofmt`
- Formatting and managing imports using `goimports`
- Code quality inspection using `go vet`
- Linting using `golint`
- Syntax checking using `go build` and `go test`
- Display of test coverage using `go test -coverprofile`



## go-plus

Adds `gofmt`, `goimports`, `go vet`, `golint`, `go build` and `go test` functionality for the go language.



joefitzgerald

2.0.1

4543



22



Repo



Bugs



Versions



License

Flag as spam or malicious

# go-plus – Improved Go Experience In Atom

build passing

BUILD PASSING



wat??? windows???

You can install `go-plus` by opening Atom, going to `Preferences` > `Packages`, and searching for `go-plus`. Alternatively, run `apm install go-plus` in your terminal.

This package adds extra Atom functionality for the go language:


- Formatting source using `gofmt`
- Formatting and managing imports using `goimports`
- Code quality inspection using `go vet`
- Linting using `golint`
- Syntax checking using `go build` and `go test`
- Display of test coverage using `go test -coverprofile`

Home

← → ↺

GitHub, Inc. [US] https://github.com/joefitzgerald/go-plus

☆ 🔑 📷 ☰



This repository ▾


Search or type a command ?

Explore

Gist

Blog

Help


 joefitzgerald

+

✂

📄

PUBLIC

 joefitzgerald / go-plus

👁 Unwatch ▾

25

★ Unstar

101

🍴 Fork

10

### Golang Package For Atom That Adds Formatting, Syntax Checking, Linting and Vetting

<https://atom.io/packages/go-plus> — Edit

🕒 216 commits

🌿 2 branches

🏷 30 releases

👤 4 contributors


🔄


branch: master ▾














go-plus / +

☰

Prepare 2.0.1 release

 joefitzgerald authored a day ago

latest commit 9bd9d0b886 

 <a href="#">assets</a>	Add Gopher Assets	18 days ago
 <a href="#">examples</a>	 Ensure Test Binary Is Cleaned Up	19 days ago
 <a href="#">keymaps</a>	Ensure GoInstallation Can Be Set Explicitly	2 days ago
 <a href="#">lib</a>	Add .exe Suffix To Go	a day ago
 <a href="#">menus</a>	Ensure GoInstallation Can Be Set Explicitly	2 days ago
 <a href="#">spec</a>	Better Handle PATH On Windows	a day ago
 <a href="#">stylesheets</a>	Add Gutter Decorations When Using The React Editor	21 days ago
 <a href="#">.gitignore</a>	Switch To Use Of Test Tool Instead Of Shell-Provided Tool	12 days ago
 <a href="#">.travis.yml</a>	 Fix Tests After 0.105.0 Deprecations	a month ago
 <a href="#">CHANGELOG.md</a>	Update CHANGELOG for v2.0.1	a day ago
 <a href="#">LICENSE.md</a>	Add README, LICENSE	4 months ago

<> Code

🔔 Issues 9

🔗 Pull Requests 1

📖 Wiki


📶 Pulse

📊 Graphs


🔧 Settings


HTTPS clone URL

https://github.com/jc



You can clone with [HTTPS](#), [SSH](#), or [Subversion](#). ?

 Clone in Desktop

 Download ZIP

# A TOUR OF VERSION 1:

go-plus

.git

.go

examples

gobuild

gofmt

goimports

golint

govet

.DS\_Store

lib

menus

node\_modules

spec

stylesheets

.gitignore

.travis.yml

CHANGELOG.md

LICENSE.md

package.json

README.md

travis-bootstrap.sh

Settings

ATOM

Settings

Keybindings

Packages

Themes

Filter packages

Archive View  
atom

Atom Dark Flat Ui  
sdegutis

Atom Dark Syntax  
atom

Atom Dark Ui  
atom

Atom Light Syntax  
atom

Atom Light Ui  
atom

Open ~/.atom

Go Plus 1.0.8

joefitzgerald/go-plus

Adds `gofmt`, `goimports`, `go vet`, `golint`, `go build` and `go test` functionality for the go language.

This package added 35ms to startup time.

Disable

Uninstall

Report Issue

Open README

Open CHANGELOG

Open in Atom

Settings

☒ Environment Overrides Configuration

☒ Format On Save

Go Executable Path

Default: /usr/local/go/bin/go

Go Path

~/go

Gofmt Args

Default: -w

Gofmt Path

Default: /usr/local/go/bin/gofmt

Settings

Send Feedback

**I MADE SOME ROOKIE MISTAKES**

**(BUT I'M NOT SO SURE OTHERS HAVE REALIZED IT)**

**(BECAUSE THESE SEEM LIKE COMMON EDITOR MISTAKES)**

**WHY SHOULD SOMEONE HAVE TO CONFIGURE THE PATH TO TOOLS?**

**LIKE** gofmt

**WOULDN'T IT BE BETTER TO USE...**

go env

**?**

```
$ go env
GOARCH="amd64"
GOBIN=""
GOCHAR="6"
GOEXE=""
GOHOSTARCH="amd64"
GOHOSTOS="darwin"
GOOS="darwin"
GOPATH="/Users/jfitzgerald/go"
GORACE=""
GOROOT="/usr/local/Cellar/go/1.3/libexec"
GOTOOLDIR="/usr/local/Cellar/go/1.3/libexec/pkg/tool/darwin_amd64"
CC="clang"
GOGCCFLAGS="-fPIC -m64 -pthread -fno-caret-diagnostics -Qunused-arguments -fmessage-length=0 -fno-common"
CXX="clang++"
CGO_ENABLED="1"
```



```
GOBIN=""  
+  
GOEXE=""  
+  
GOPATH="/Users/jfitzgerald/go"  
+  
GOROOT="/usr/local/Cellar/go/1.3/libexec"  
+  
GOTOOLDIR="/usr/local/Cellar/go/1.3/libexec/pkg/tool/darwin_amd64"
```

**IS EVERYTHING YOU NEED TO FIND GO TOOLS**

**(PLUS \$PATH / %Path%)**

**SO WE JUST NEED TO FIND**

go

# WHERE IS GO, YOU ASK?

1. Start With `$PATH / %PATH%` Segments, Then:
2. OSX: `/usr/local/go/bin` (Package Installer)
3. OSX: `/usr/local/bin` (Homebrew)
4. Windows: `C:\Go\bin` (Package Installer)

# SO NOW WE CAN FIND:

1. go
2. godoc
3. gofmt
4. vet
5. cover

# BUT WHAT ABOUT:

1. goimports

2. golint

3. oracle

**4. And Other \$GOPATH / %GOPATH% Bin Executables?**

They aren't in GOTOOLDIR or GOROOT...

# THEY BE HERE, SOMEWHERE:

1. **Start With** `$PATH / %PATH%` **Segments, Then:**
2. **Look In** `$GOBIN / %GOBIN%`
3. **Look In** `$GOPATH / %GOPATH%` **Segments In The** `bin` **Directory**

**AND THEN IF YOU CAN'T FIND THEM, OFFER TO:**

go get -u

**THE REQUIRED TOOLS!**

(THERE IS NO MAGIC, THIS CAN BE DISABLED)

**THIS REVELATION LED TO go-plus V2**  
(PLUS A LOAD OF OTHER INTERNAL AWESOMENESS)  
**TO PREPARE FOR THE ADDITION OF:**



# AUTOCOMplete

(POWERED BY `gocode`)

# ORACLE

(POWERED BY `oracle`);)

**GO TO DEFINITION**

**(POWERED BY** `godef`**)**

**GO TO DOCUMENTATION**  
(POWERED BY `godoc`)

**AND ctags SUPPORT**

**(POWERED BY gotags)**

# ALSO

THE PACKAGE IS WRITTEN IN COFFEESCRIPT

*(Yeah, I Made A Few Mistakes As I Learned CoffeeScript)*

IS THIS AS IRONIC TO YOU AS IT IS TO ME?

**AND ON THAT BOMBSHELL...**

*Goodnight*

**GOT ANY QUESTIONS?**

**TWITTER: @JOEFITZGERALD**