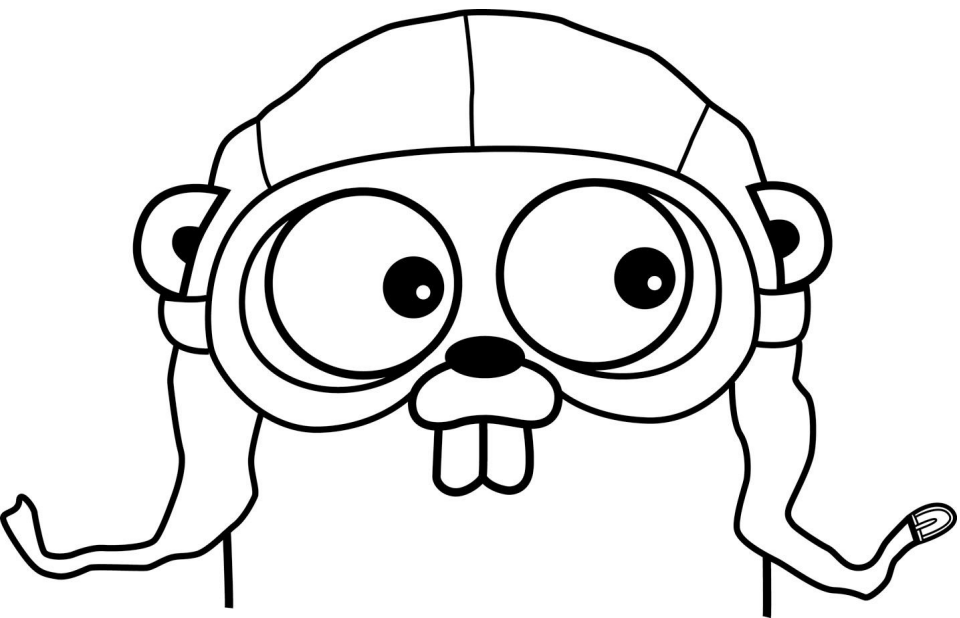


Learn Go by contributing

Часть #2



<https://github.com/Quasilyte/kfu-go-2018>
MIT license © 2018

The original Go gopher image copyright
© 2009 Renee French under CC3.0 Attributions

<https://go-review.googlesource.com>

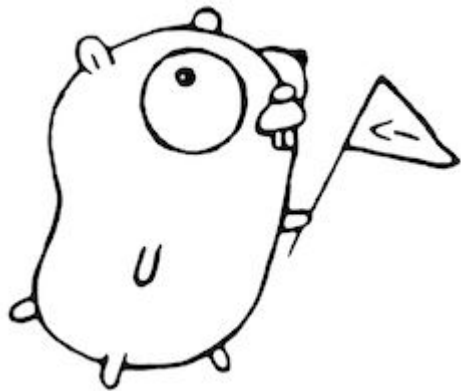
Сегодня мы отправим патчи в gerrit

<https://goo.gl/iEE8Nh>

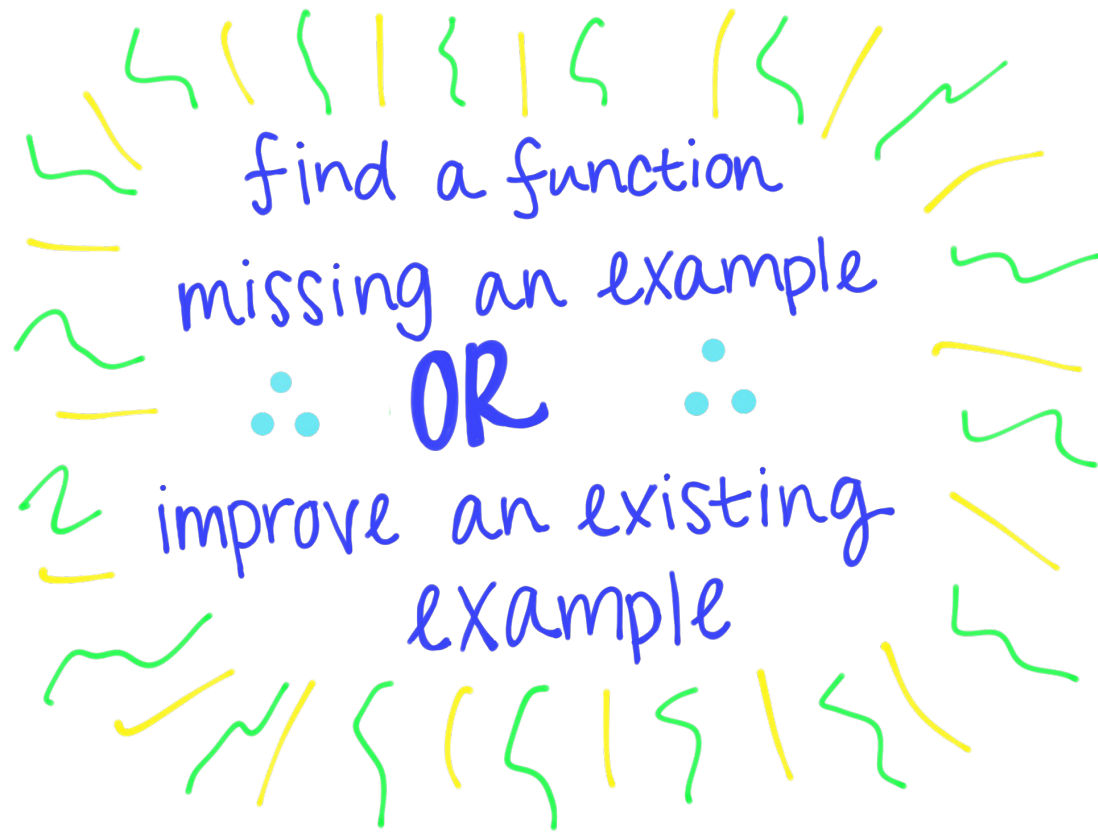
Презентация “How to contribute to Go”.
Часть материала взята оттуда.

golang.org/x/scratch - “hello world”

Доработать подготовленный патч



Патч с нуля



Дополнительный вид контрибуции

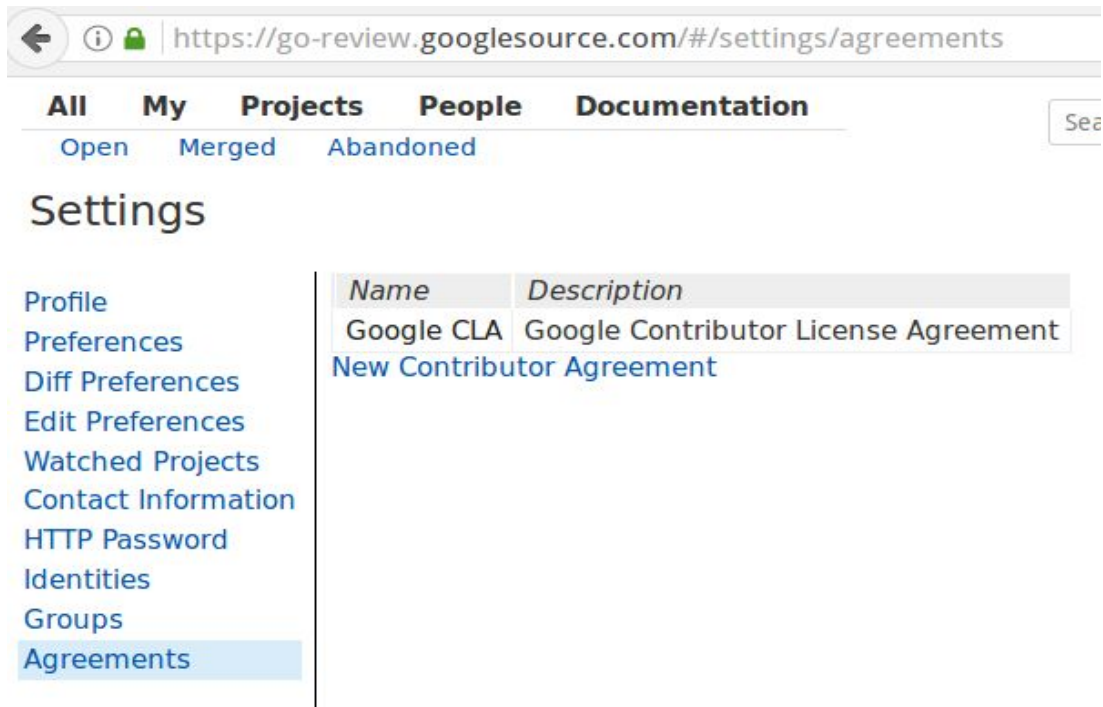
CLA = Contributor License Agreement

- <https://cla.developers.google.com/about/google-individual>
- Выбрать “Manage your agreements”
- Выбрать “Only yourself”
- Заполнить форму
- Нажать “I agree”



Google Developers

<https://go-review.googlesource.com/#/settings/agreements>



The screenshot shows the Go Review web interface. At the top is a navigation bar with tabs: All, My, Projects, People, and Documentation. Below these are sub-tabs: Open, Merged, and Abandoned. A search box is on the right. The main heading is 'Settings'. On the left is a sidebar menu with links: Profile, Preferences, Diff Preferences, Edit Preferences, Watched Projects, Contact Information, HTTP Password, Identities, Groups, and Agreements (which is highlighted). The main content area shows a table with two columns: Name and Description. The table contains one entry: 'Google CLA' with the description 'Google Contributor License Agreement'. Below the table is a link for 'New Contributor Agreement'.

Name	Description
Google CLA	Google Contributor License Agreement

[New Contributor Agreement](#)

Проверка CLA - 1

<https://cla.developers.google.com/cla>



The screenshot shows a web browser window with the address bar displaying `https://cla.developers.google.com/cla`. The page header features the Google Developers logo. Below the header, a breadcrumb trail reads "Products > Open Source Programs Office". The main heading is "Contributor License Agreements". Underneath, there is a section titled "Individual Agreements" with the text "Individual agreements we have on file for you:". A table follows, containing one row of data.

Agreement	Name	Date Signed
Google Individual CLA	Iskander Sharipov	Dec 24, 2017 00:24 PST

Проверка CLA - 2

Настройка git

```
$ git config --global user.name nickname
```

```
$ git config --global user.email a@gmail.com
```

```
$ git config user.name
```

```
nickname
```

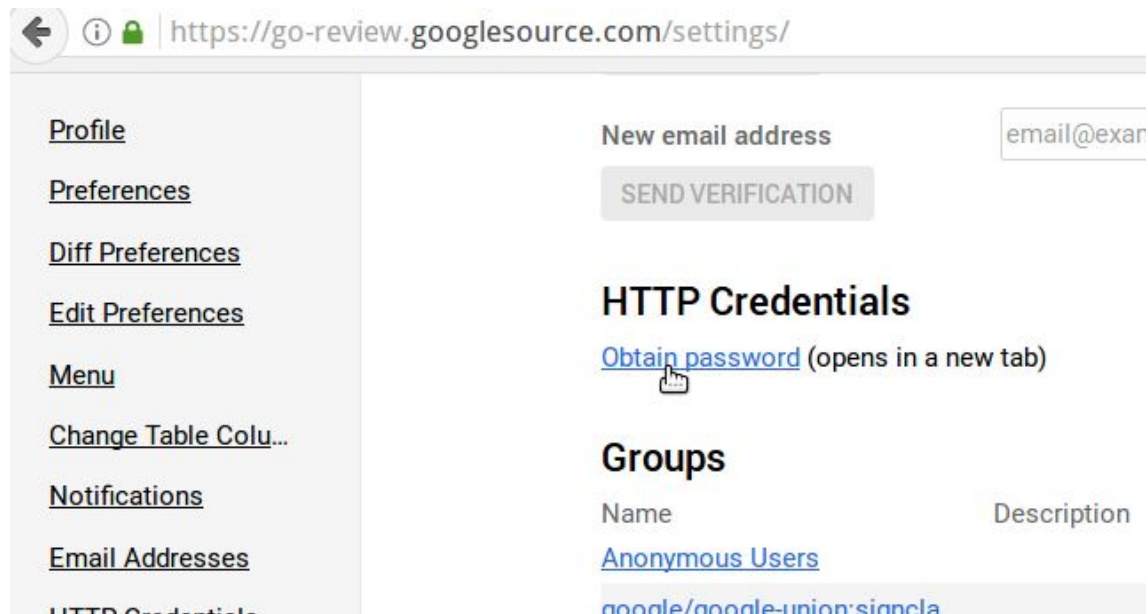
```
$ git config user.email
```

```
a@gmail.com
```

ВАЖНО

Нужно указать одинаковые email в CLA, git user.email. На github.com этот email должен быть установлен как основной.

<https://go-review.googlesource.com/settings/>



Получение доступа к googlesource - 1



Git

Configure Git

Configure Git with a cookie for this service by copying this script and p

Windows Users ↴

Authenticate as **quasilyte@gmail.com** to go.google.com

```
set +o history
touch ~/.gitcookies
chmod 0600 ~/.gitcookies

git config --global http.cookiefile ~/.gitcookies
```

Следовать инструкции на этой странице. Для windows и linux разные наборы команд.

Получение доступа к googlesource - 2

Патч в scratch 1: подготовка

```
$ git clone --depth 1 https://go.googlesource.com/scratch
$ cd scratch
$ mkdir $(git config user.name)
$ cat << EOF > $(git config user.name)/main.go
package main

func main() {
    println("Go is awesome")
}
EOF
```

Патч в scratch 2: создание ветки my_branch

```
$ go run $(git config user.name)/main.go
```

```
Go is awesome
```

```
$ git codereview gofmt
```

```
$ git add .
```

```
$ git codereview change my_branch
```

```
# Запросит ввести commit message
```

Патч в scratch 3: commit message

```
quasilyte: add main.go
```

My first gerrit CL.

(Forgot copyright header intentionally, I want at least 2 rounds.)

```
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch my_branch
# Your branch is up-to-date with 'origin/master'.
#
# Changes to be committed:
#   new file:   quasilyte/main.go
#
```

Патч в scratch 4: отправка изменения

```
$ git codereview mail
```

```
remote: Processing changes: new: 1, done
```

```
remote:
```

```
remote: New Changes:
```

```
remote: https://go-review.googlesource.com/#/c/scratch/+/? quasilyte: add main.go
```

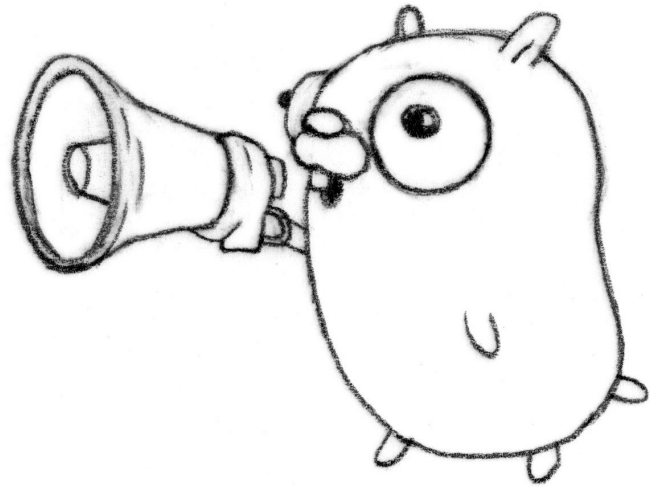
```
remote:
```

Вместо “?” в конце ссылки будет ID изменения.

Ссылка ведёт на ревью патча.

Если ID=123, то патч именуют CL123, etc.

*Please, include “Go authors”
copyright header.*



На ревью могут запросить изменения

Патч в scratch 5: внесение изменений

```
$ cat << EOF > $(git config user.name)/main.go
// Copyright 2018 The Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
```

```
package main
```

```
func main() {
    println("Go is awesome")
}
EOF
```

Патч в scratch 6: отправка изменений

```
$ git codereview gofmt
```

```
$ git add .
```

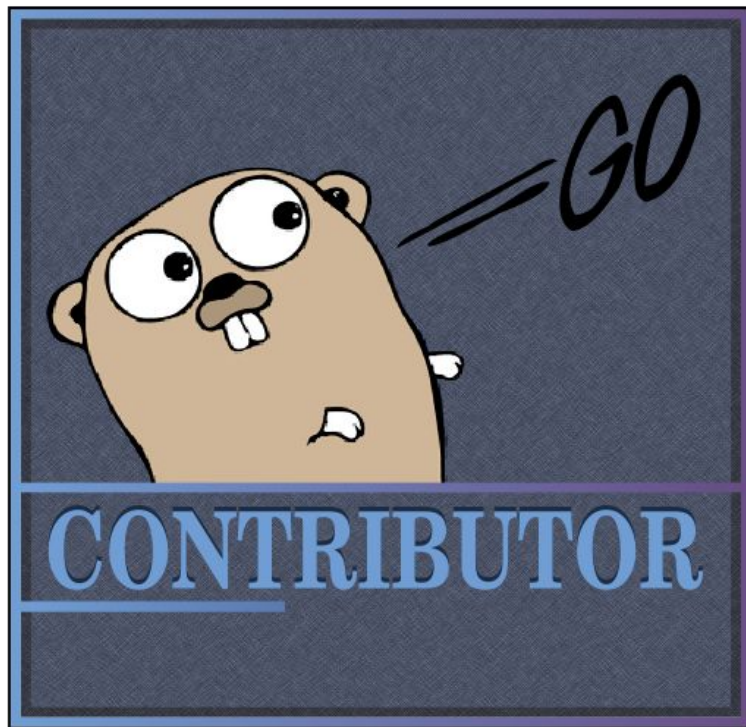
```
$ git codereview mail
```

Теперь по прежней ссылке на CL будет доступен patch set #2. Теперь у файла есть copyright заголовков и вам поставят +2, а патч вольют.

Терминология

- **Gerrit** - место, где происходит ревью
- **Change** - аналог Pull Request в github
- **CL** - Change List, синоним **change**
- **Patch Set** - версия **CL** коммита

Первый “git codereview mail” отправляет **patch set 1**. Следующие mail увеличивают счётчик.



Стикеры!