

# GIT

## Preparation

### git-email

```
sudo apt-get install git-email
git config sendemail.signedoffcc false
git config sendemail.suppressfrom true
```

### replace github's git: links

NOTE: Github was disabled git protocol. So only https: or ssh git@ is valid.

```
git config --global url.https://github.com/daurnimator/lu-systemd.insteadOf
git://github.com/daurnimator/lu-systemd
# or
git config --global url.https://.insteadOf git://
```

Keywords: git protocol, git: protocol

### replace github https links

```
git config --global url.git@github.com:.insteadOf https://github.com/
```

## Import HG (mercurial) repo

```
sudo apt-get install hg-fast-export
git init
hg-fast-export -r .
```

## Usage

### fetch moved tags

```
git fetch origin --tags --force
```

## Undo a commit

Undo a commit and redo

```
$ git commit ...
$ git reset --soft HEAD~1
<< edit files as necessary >>
$ git add ....
$ git commit -c ORIG_HEAD
```

## Local copy of one branch from public repo

```
git remote add ti git://git.ti.com/ti-linux-kernel/ti-linux-kernel.git
git remote add tilocal /home/user/mirrors/ti-linux-kernel
git fetch ti refs/heads/ti-linux-3.14.y
git checkout ti-linux-3.14.y
```

Now we have latest version from ti-linux-3.14.y branch. Add our local GitLab server

```
git remote add gitlab ssh://path...
```

And push current branch (we are on ti-linux-3.14.y after checkout)

```
git push -u gitlab
```

## repo clean and repack

```
git reflog expire --expire=1.minute refs/heads/master
git fsck --unreachable
git prune
git gc
```

## Debug

```
GIT_TRACE=1 git clone ...
GIT_CURL_VERBOSE=1 GIT_TRACE=1 git clone ...
```

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