

Reference:

- Pro Git Ebook: <http://git-scm.com/book/en/v2>
- Git from the bottom up: <http://ccprog.pbworks.com/w/file/fetch/56612822/git.from.bottom.up.pdf>
- GitHub Help: <https://help.github.com/>

Install Git on Linux

Download for Linux and Unix

It is easiest to install Git on Linux using the preferred package manager of your Linux distribution

Debian/Ubuntu

```
$ apt-get install git
```

Fedora

```
$ yum install git
```

Gentoo

```
$ emerge --ask --verbose dev-vcs/git
```

Arch Linux

```
$ pacman -S git
```

FreeBSD

```
$ cd /usr/ports/devel/git
$ make install
```

Solaris 11 Express

```
$ pkg install developer/versioning/git
```

OpenBSD

```
$ pkg_add git
```

Install Git on Windows

1. Install Git

- (Windows Users) Download and Install Git for Windows: <https://msysgit.github.com>
- Open Git Bash

2. Git config

### Git Initial Configuration

```
# list all configurations

$ git config -l

# set user name and email (must be the same as your github email)

$ git config --global user.name "geofferyzh"
$ git config --global user.email geofferyzh@hotmail.com

DSinmotions~MacBook-Pro:~ DSinmotion$ git config --global user.name "geofferyzh"
DSinmotions~MacBook-Pro:~ DSinmotion$ git config --global user.email "geofferyzh@hotmail.com"
DSinmotions~MacBook-Pro:~ DSinmotion$ git config -l
filter.media.required=true
filter.media.clean=git media clean %f
filter.media.smudge=git media smudge %f
user.name=geofferyzh
user.email=geofferyzh@hotmail.com
```

3. Set up SSH key

3.1 Create SSH Key

- Navigate to "C:\Users\shazhang\.ssh"
- Run `ssh-keygen -t rsa -C "geofferyzh@hotmail.com"`

```
DSinmotions~MacBook-Pro:~.ssh DSinmotion$ cd ~/.ssh
DSinmotions~MacBook-Pro:~.ssh DSinmotion$ ll
total 40
drwx----- 6 DSinmotion staff 204 13 Mar 22:30 ./
drwxr-xr-x+ 45 DSinmotion staff 1530 13 Mar 22:26 ../
-rw-r--r-- 1 DSinmotion staff 630 11 Jan 23:28 authorized_keys
-rw----- 1 DSinmotion staff 668 11 Jan 23:27 id_dsa
-rw-r--r-- 1 DSinmotion staff 630 11 Jan 23:27 id_dsa.pub
-rw-r--r-- 1 DSinmotion staff 4596 13 Mar 22:22 known_hosts
DSinmotions~MacBook-Pro:~.ssh DSinmotion$ ssh-keygen -t rsa -C "geofferyzh@hotmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/Users/DSinmotion/.ssh/id_rsa): github_rsa
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in github_rsa.
Your public key has been saved in github_rsa.pub.
The key fingerprint is:
2a:bf:85:72:01:ee:7e:63:db:4a:37:7a:6a:07:b0:35 geofferyzh@hotmail.com
The key's randomart image is:
+--[ RSA 2048 ]-----+
|
|      .
|    ...E
|   .+.S
|  .. .+
|   + =.+
|  . *==O.
|   .+B0.
|
+-----+

```

3.3 Upload Your SSH Key

Go to [github.com](#) —> setting —> SSH keys

SSH keys

Add SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

**geofferyzh@hotmail.com**  
13:b1:fb:28:97:f8:14:c0:24:28:8e:f0:9c:af:06:77  
Added on May 25, 2012 — No recent activity

Delete

**GitHub for Windows - C10000000955735**  
d1:fe:3a:cb:f3:be:8e:e3:3c:15:cb:85:1b:b4:7c:7d  
Added on Oct 9, 2012 — No recent activity

Delete

Click “Add SSH Key”

Copy the content of your `github_rsa.pub` file to GitHub

SSH keys

Add SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

**geofferyzh@hotmail.com**  
13:b1:fb:28:97:f8:14:c0:24:28:8e:f0:9c:af:06:77  
Added on May 25, 2012 — No recent activity

Delete

**GitHub for Windows - C10000000955735**  
d1:fe:3a:cb:f3:be:8e:e3:3c:15:cb:85:1b:b4:7c:7d  
Added on Oct 9, 2012 — No recent activity

Delete

**GitHub for Macbook Pro**  
f3:77:de:66:1ab:6c:8f:af:f0:3b:7e:df:cf:3f:28:85  
Added on Mar 13, 2015 — Never used

Delete

3.3 Verify SSH Connections

```
# Note: always use git instead of your actually github account name to connect

$ ssh -T git@github.com

DSinmotions~MacBook-Pro:~.ssh DSinmotion$ ssh -T git@github.com
Hi geofferyzh! You've successfully authenticated, but GitHub does not provide shell access.
```