# 2019

## 版本控制---github

版本控制 github

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## 开源社区

在很长一段时间,项目的源代码是公司的财产,与商业秘密有关,是封闭和不可能公开的。后来开始有人在互联网上分享自己写的代码,互相讨论,逐渐形成了一种特殊的虚拟社区。社区成员大部分都是职业的程序员或编程爱好者,他们根据相应的开源软件许可证协议公布软件源代码,分享源代码,共同自由学习交流。

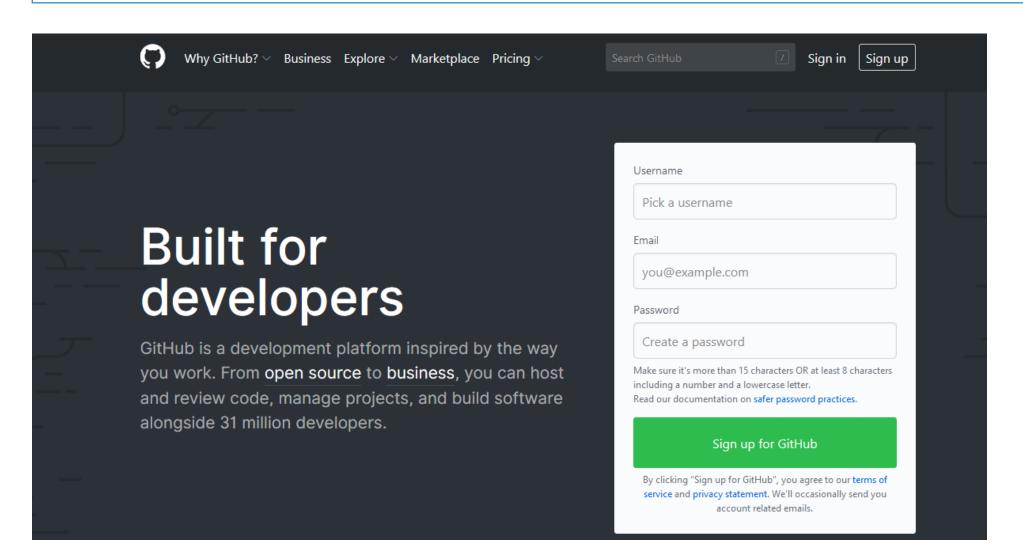
GitHub是一个面向开源及私有软件项目的托管平台,因为只支持git作为唯一的版本库格式进行托管,故名GitHub。GitHub于2008年4月10日正式上线。目前注册用户超过350万,拥有超过900万开发者用户。GitHub的出现,极大地推进开源社区的发展。

#### 使用GitHub好处:

- 1、获取最新最热门最实用的开源组件,有助于开发公司项目
- 2、获取最流行的技术相关源代码,有助于参考学习借鉴
- 3、参与感兴趣的开源项目,增强与他人协作开发的能力
- 4、创建属于自己的开源项目,提升编程能力,打造个人名片

## 一、访问GitHub,申请账号

打开浏览器,在地址栏输入https://github.com



## 二、完成申请,验证链接

- 1、显示申请账号的页面,输入你的用户名(Uername)、邮箱地址(Email)和登录密码之后,点击Signup for GitHub按钮完成申请。
- 2、账号申请成功之后,你的邮箱会收到一封验证邮件,点击验证链接。

Almost done, **@bbcwanglei**! To complete your GitHub sign up, we just need to verify your email address:

@126.

#### Verify email address

Once verified, you can start using all of GitHub's features to explore, build, and share projects.

Button not working? Paste the following link into your browser: https://github.com/users/bbcwanglei/emails/63444901/confirm\_verification/c6f8a4ea1134c63cd864b3fff1496d307f56247a

You're receiving this email because you recently created a new GitHub account or added a new email address. If this wasn't you, please ignore this email.

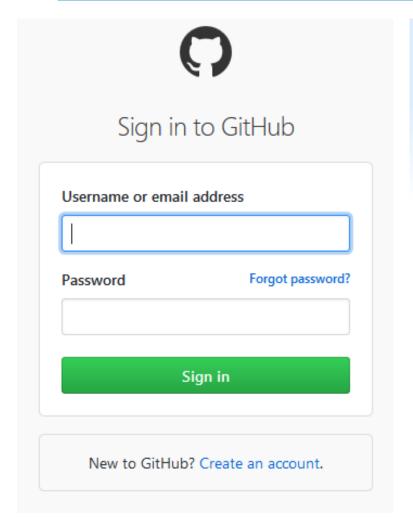
# Welcome, @bbcwanglei!

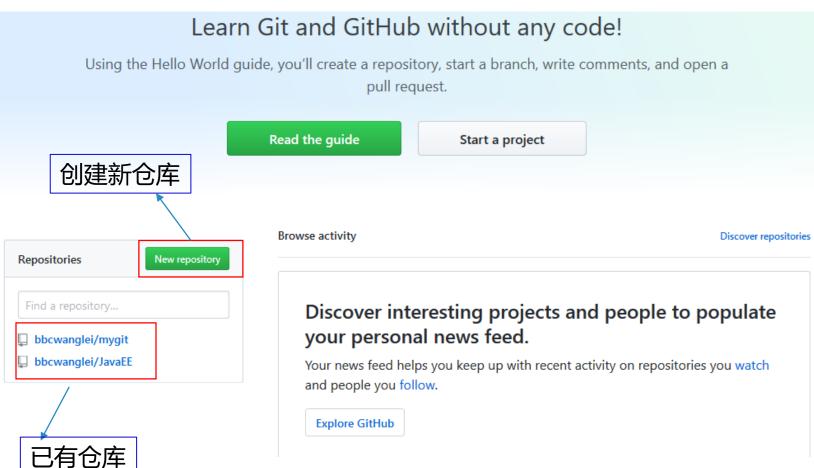
GitHub lets you version your code, collaborate with others, and share what you've built with the world. We're excited to see what you make.



## 三、登录账号

#### 输入用户名和密码之后,登录github





## 创建新仓库

### Create a new repository

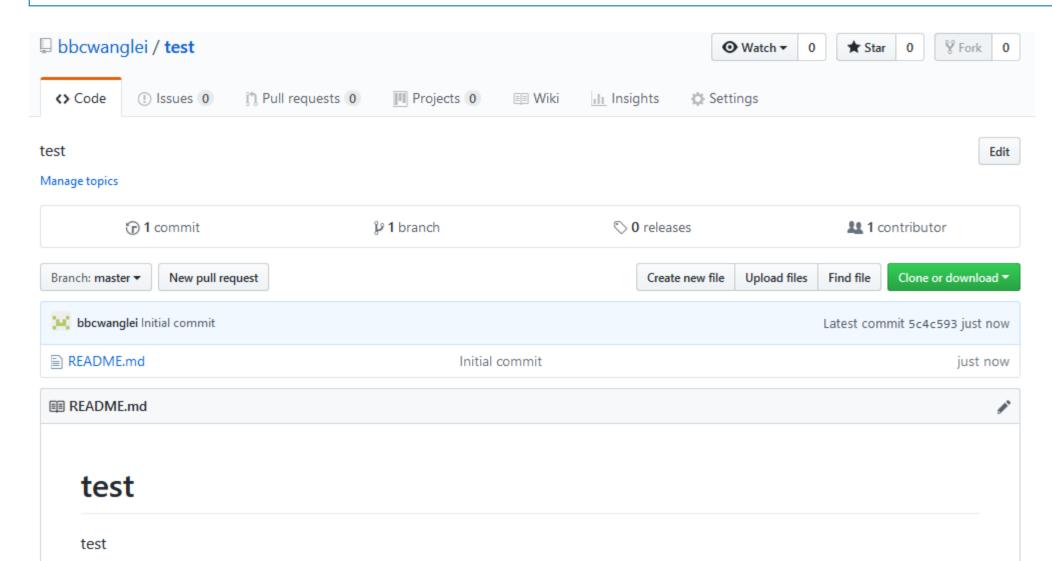
#### Create a new repository

A repository contains all the files for your project, including the revision history.



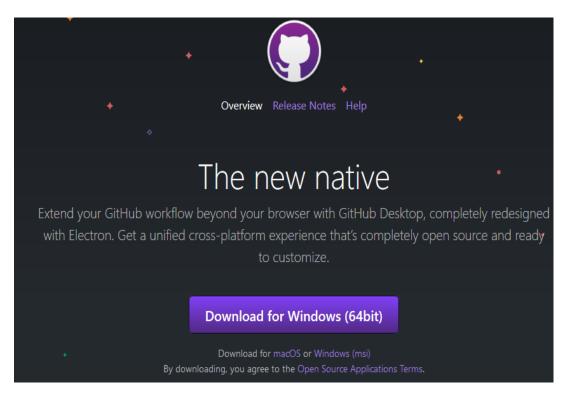
## 五、仓库创建成功

#### 仓库创建成功,拥有300M空间。



## ·六、安装GitBash·

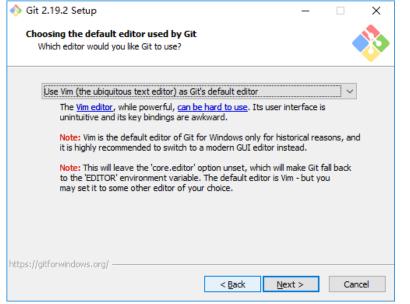
1、下载GitBash并安装:https://desktop.github.com/

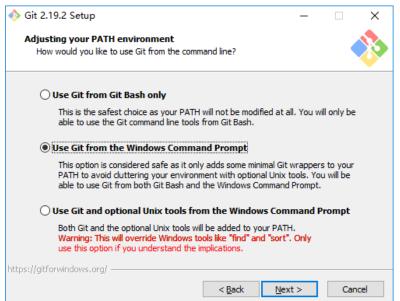


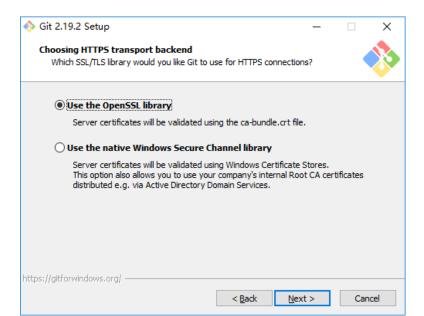


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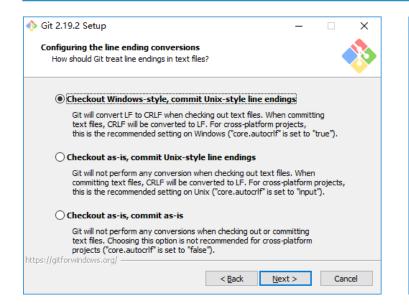


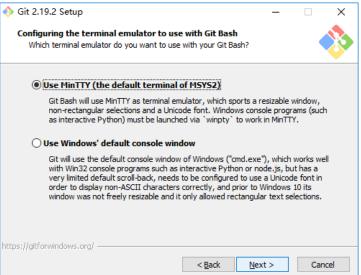


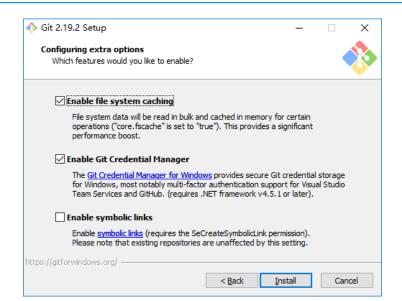


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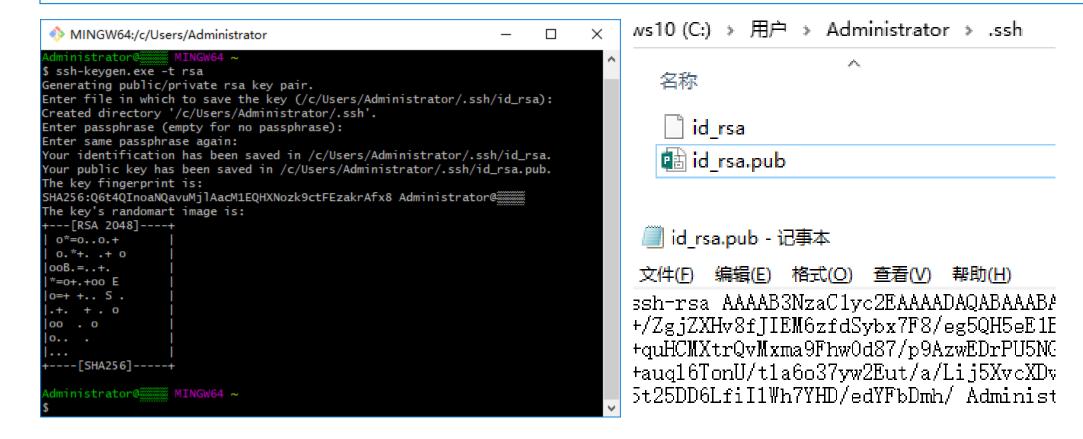






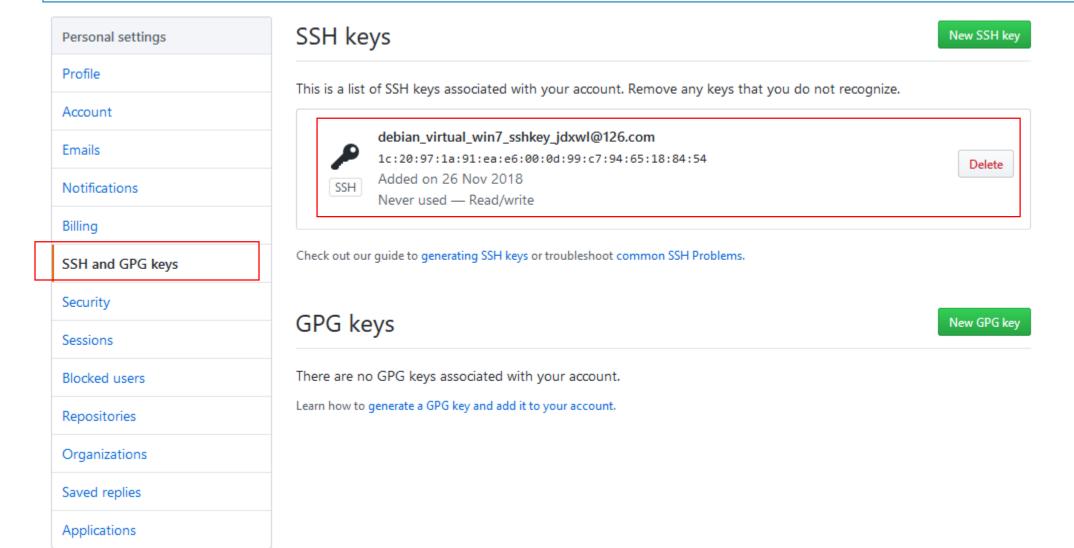
## ·七、生成SSH密钥

1、生成SSH密钥 打开GitBash,使用命令生成ssh key ssh-keygen -t rsa -C "your\_email@example.com" 将密钥拷贝到GitHub,公钥上传,私钥自己保留。



## ·八、clone代码到本地

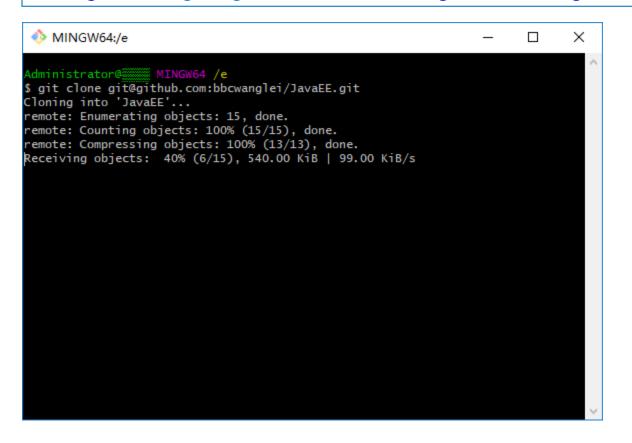
#### 2、将~/.ssh/id\_rsa.pub密钥添加到GitHub的密钥管理



## ·九、开始clone·

xkuser.rar

- 1、使用cd命令进入到相应的目录,然后使用如下命令进行clone:
  - \$ git clone git@github.com:bbcwanglei/JavaEE.git





## 十、push代码到GitHub

- 1、对源代码做出增加、删除或者修改
- 2、也可以新增一些其他文件
- 3、使用以下命令进行提交:
  - 3.1 首先注册身份:
  - git config --global user.email "jdxwl@126.com"
  - git config --global user.name "wl"
  - 3.2 新增变化到当前git工作区
  - git add.
  - 3.3 把最新版本内容放至暂存区
  - git commit -m "xxx"
  - 3.4 向远程GitHub提交
  - git push

## ·十、push代码到GitHub

#### 4、观察执行结果

```
MINGW64:/e/JavaEE
                                                                                   MINGW64:/e/JavaEE
                                                                                                                                                        П
                                                                      П
                                                                                  Administrator@ MINGW64 /e/JavaEE (master)
dministrator@ MINGW64 /e/JavaEE (master)
$ git commit -m "add 2 file by wl"
                                                                                 $ git push
[master e7d0cd2] add 2 file by wl
                                                                                 Warning: Permanently added the RSA host key for IP address '13.250.177.223' to t
4 files changed, 138 insertions(+)
                                                                                 he list of known hosts.
create mode 100644 "linux\345\221\275\344\273\244.txt"
                                                                                 Enumerating objects: 6, done.
create mode 100644 "web \345\211\215\347\253\257 \345\255\246\344\271\240 \350\
                                                                                 Counting objects: 100% (6/6), done.
267\257\347\272\277.mm"
                                                                                 Delta compression using up to 4 threads
delete mode 100644 xkuser.rar
                                                                                 Compressing objects: 100% (5/5), done.
create mode 100644 "\345\255\246\344\271\240bootstrap.png"
                                                                                 Writing objects: 100% (5/5), 27.13 KiB | 4.52 MiB/s, done.
                                                                                 Total 5 (delta 1), reused 0 (delta 0)
                                                                                 remote: Resolving deltas: 100% (1/1), completed with 1 local object.
dministrator@ MINGW64 /e/JavaEE (master)
                                                                                 To github.com:bbcwanglei/JavaEE.git
                                                                                     ad2873a..e7d0cd2 master -> master
                                                                                   dministrator@ MINGW64 /e/JavaEE (master)
```

## 一、观察结果

### 5、GitHub远程仓库已经发生变化



- 1JavaEE培训@环境搭建、Servlet、连接数据库.pdf
- 3struts2培训@part2@拦截器、通配符、OGNL.pdf
- README.md
- linux命令.txt
- 🗎 web 前端 学习 路线.mm

## 十二、查询历史

# 查询历史不同版本ID号 git log --pretty=oneline

```
MINGW64:/e/JavaEE
dministrator@____MINGW64 /e/JavaEE (master)
git log --pretty=oneline
e7d0cd28a69469bbba0acf612023ec0326aa2de1 (HEAD -> master, origin/master, origin/
HEAD) add 2 file by wl
ad2873ad5b74a5e99f52a915a58a746e9208e6fd add struts2@2
955cfb4d9b45891fc31ec6767e57620fb490705 add servlet
  8b56040d4765d8a9dfd1a99aa46a2c1c20b5c add struts2
b45bf039597439650966654e6888131c94141ac xkuser
bf1eca3f5fc8bf6ac0a272673864280625995316 Initial commit
dministrator@____MINGW64 /e/JavaEE (master)
```

## •十三、恢复到历史版本

### 恢复到历史版本

- (1) git reset --hard 版本ID --移动版本指针

- (2) git push -f -u origin master --强制上传到远程,并覆盖

```
MINGW64:/e/JavaEE
 dministrator@ MINGW64 /e/JavaEE (master)
 git log --pretty=oneline
 7d0cd28a69469bbba0acf612023ec0326aa2de1 (HEAD -> master, origin/master, origin
 EAD) add 2 file by wl
 d2873ad5b74a5e99f52a915a58a746e9208e6fd add struts2@2
   5cfb4d9b45891fc31ec6767e57620fb490705 add servlet
 9a8b56040d4765d8a9dfd1a99aa46a2c1c20b5c add struts2
 b45bf039597439650966654e6888131c94141ac xkuser
of1eca3f5fc8bf6ac0a272673864280625995316 Initial commit
 dministrator@____MINGW64 /e/JavaEE (master)
$ git reset --hard ad2873
HEAD is now at ad2873a add struts2@2
 dministrator@ MINGW64 /e/JavaEE (master)
$ git push -f -u origin master
Total O (delta O), reused O (delta O)
To github.com:bbcwanglei/JavaEE.git
+ e7d0cd2...ad2873a master -> master (forced update)
Branch 'master' set up to track remote branch 'master' from 'origin'.
 dministrator@ MINGW64 /e/JavaEE (master)
```

## 十四、重新pull最新版本

## 本地仓库重新pull最新版本 git pull

```
MINGW64:/e/JavaEE
                                                                          X
Administrator@ MINGW64 /e/JavaEE (master)
$ git pull
Already up to date.
Administrator@ MINGW64 /e/JavaEE (master)
```

## 十五、只删除远程仓库,不删除本地仓库。

- \$ git pull origin master // 将项目从远程库拉下来
- \$ git rm -r --cached 1.txt // 删除指定文件, 多个文件之间空格隔开
- \$ git commit -m '删除1.txt'
- \$ git push -u origin master

## ·十六、同时删除Github本地库和远程仓库的文件

进入本地文件夹中相应的文件夹,删除需要删除的文件/文件夹,执行以下命令:

- \$ git add \*
- \$ git commit -m 'delete file'
- \$ git push origin master