

# Git入门

---

1. 贯穿始终：工作空间、暂存区、提交历史
2. 掌握基本操作
3. 知道GitHub和Git的联系（远程仓库）
4. 了解版本回退
5. 你将不会掌握：分支、搭建Git服务器

# 新建一个目录

---

新建文件夹

起一个有意义的名字（项目的名字）



HelloWorldProject



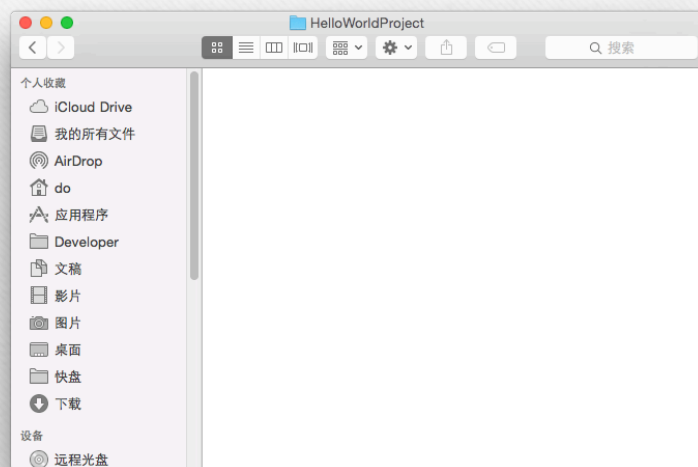
## 进入项目根目录

---

双击进入该目录

接下来我们所有工作都在这个目录下进行了。

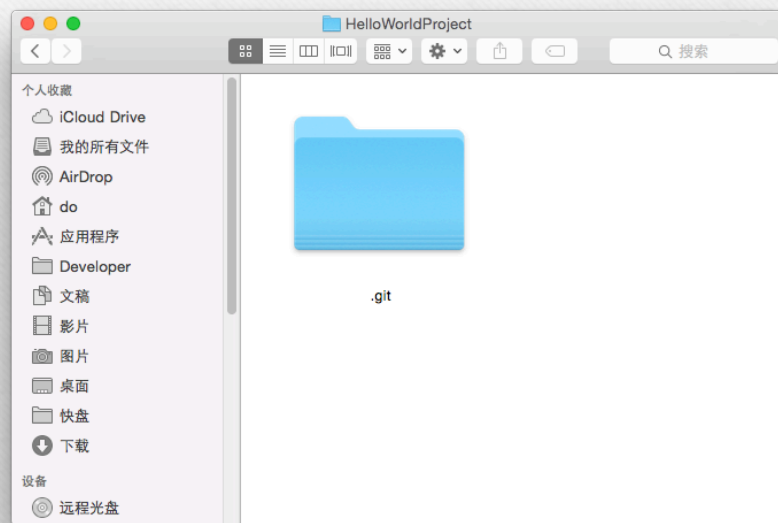
Git虽然强大但你在该目录之外做的工作Git可是管不着的。



# git init

## 初始化Git仓库

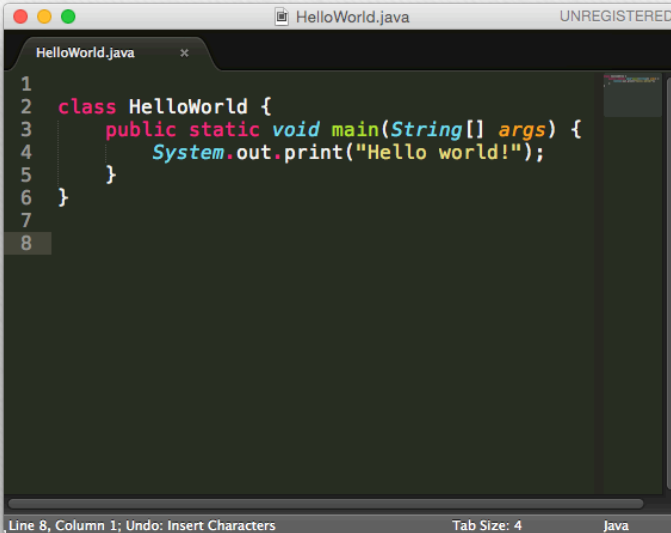
发现多了一个.git文件夹  
不需要在意.git里面的内容,  
更不要把这个文件夹删了





## 新建文件

做项目当然要写一些代码



A screenshot of a code editor window titled 'HelloWorld.java' with 'UNREGISTERED' in the top right corner. The editor shows a Java class named 'HelloWorld' with a 'main' method. The code is as follows:

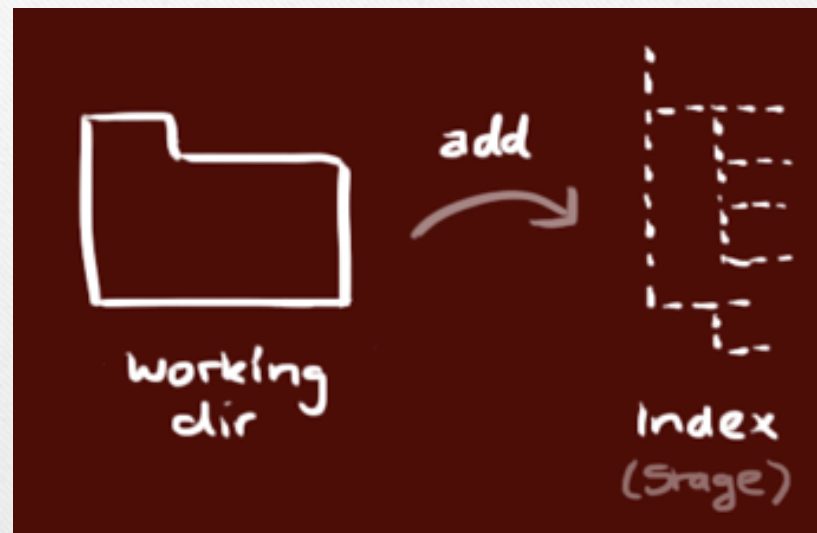
```
1  
2  class HelloWorld {  
3      public static void main(String[] args) {  
4          System.out.print("Hello world!");  
5      }  
6  }  
7  
8
```

The status bar at the bottom indicates 'Line 8, Column 1; Undo: Insert Characters', 'Tab Size: 4', and 'Java'.

git add

---

跟踪文件  
Tracking New Files

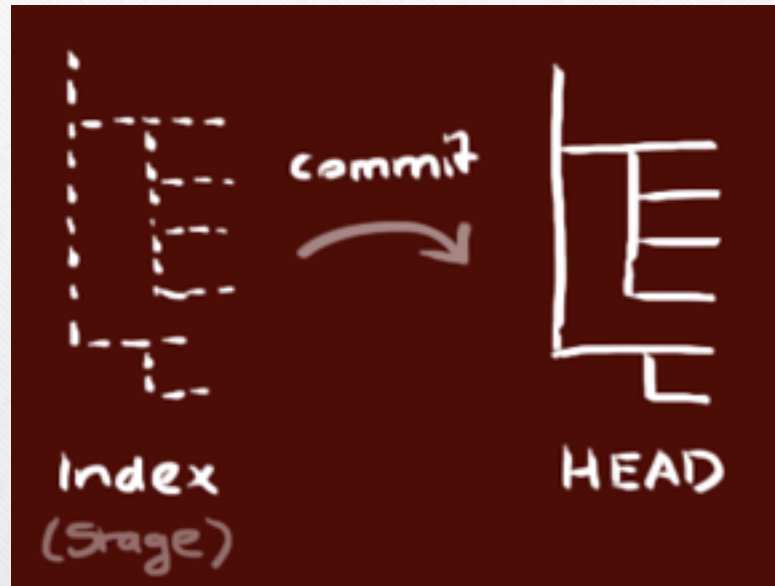




git commit

---

提交更改



## 回顾

1. 初始化Git仓库
2. 创建了一个文件（java 代码）
3. add跟踪该文件
4. submit提交

工作区



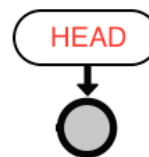
HelloWorld.java

暂存区



HelloWorld.java

提交历史





## 做些修改

修改：HelloWorld.java

新建：readme.txt

工作区



HelloWorld.java



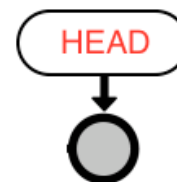
readme.md

暂存区



HelloWorld.java

提交历史

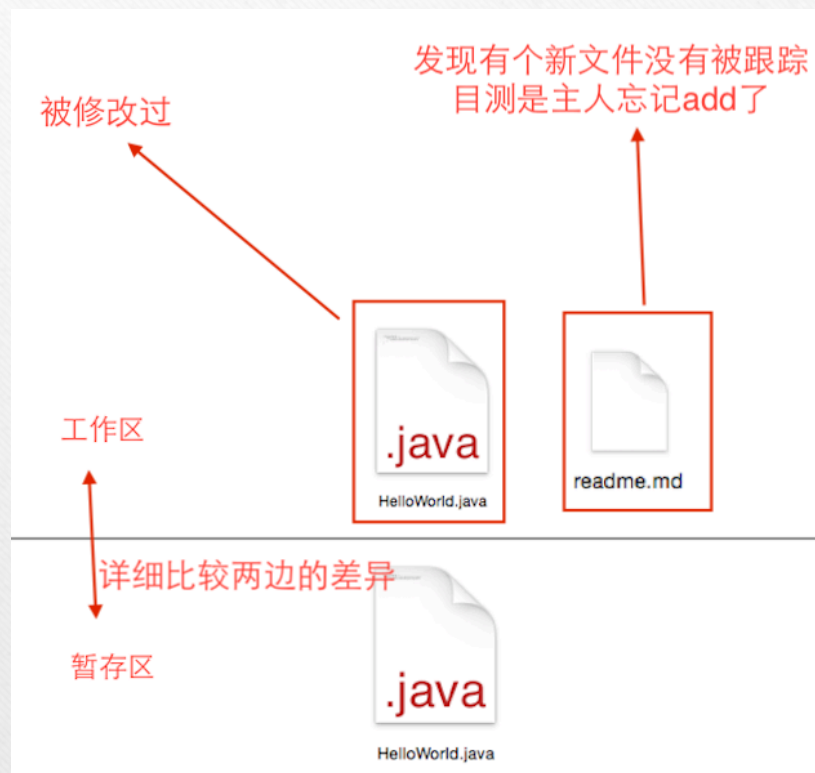


## git status

查看状态

Git会对比工作区和暂存区然后告诉你：

- HelloWorld.java被修改了
- readme.txt是一个新文件



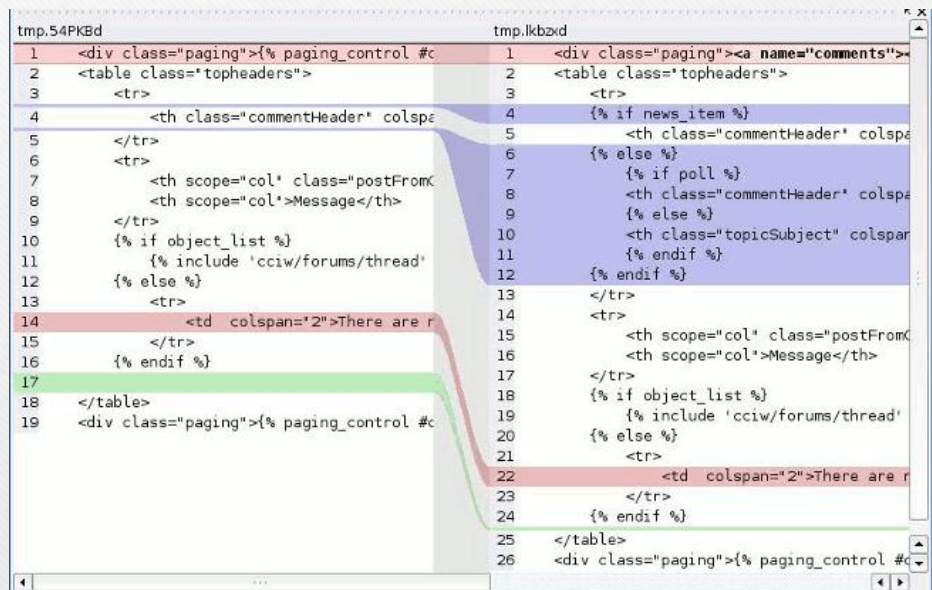


## git diff

比git status更详细

它会告诉你：

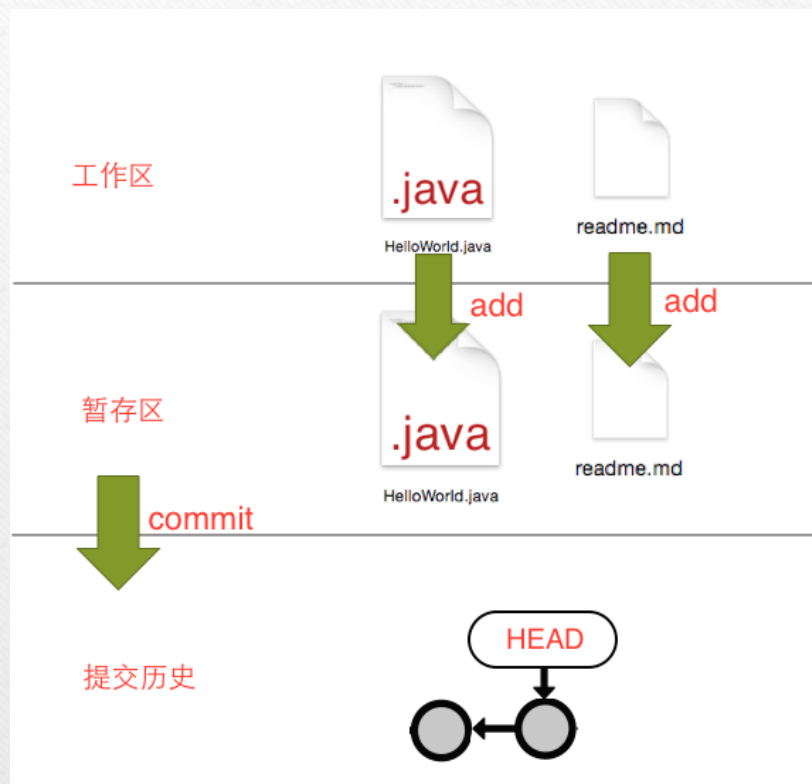
- 添加了哪几行代码？
- 删除了哪几行代码？



```
tmp.54PKBd                                     tmp.lkbzxd
1  <div class="paging">{% paging_control #c    1  <div class="paging"><a name="comments">
2  <table class="topheaders">                  2  <table class="topheaders">
3  <tr>                                         3  <tr>
4  <th class="commentHeader" colspan="2">      4  {% if news_item %}
5  </th>                                        5  <th class="commentHeader" colspan="2">
6  </tr>                                        6  {% else %}
7  <th scope="col" class="postFrom">          7  {% if poll %}
8  <th scope="col">Message</th>                8  <th class="commentHeader" colspan="2">
9  </tr>                                        9  {% else %}
10 {% if object_list %}                       10 <th class="topicSubject" colspan="2">
11 {% include 'cciw/forums/thread'            11 {% endif %}
12 {% else %}                                 12 {% endif %}
13 <tr>                                        13 </tr>
14 <td colspan="2">There are r                 14 <tr>
15 </td>                                       15 <th scope="col" class="postFrom">
16 {% endif %}                                16 <th scope="col">Message</th>
17 </table>                                    17 </tr>
18 <div class="paging">{% paging_control #c    18 {% if object_list %}
19 </div>                                       19 {% include 'cciw/forums/thread'
20 </div>                                       20 {% else %}
21 </div>                                       21 <tr>
22 <td colspan="2">There are r                 22 <td colspan="2">There are r
23 </td>                                       23 </td>
24 {% endif %}                                24 {% endif %}
25 </table>                                    25 </table>
26 <div class="paging">{% paging_control #c    26 <div class="paging">{% paging_control #c
```

## 提交修改

1. 利用status和diff确认修改内容是否正确
2. 需要跟踪readme.txt
3. 不需要跟踪HelloWorld.java, 因为已经跟踪过了
4. commit提交



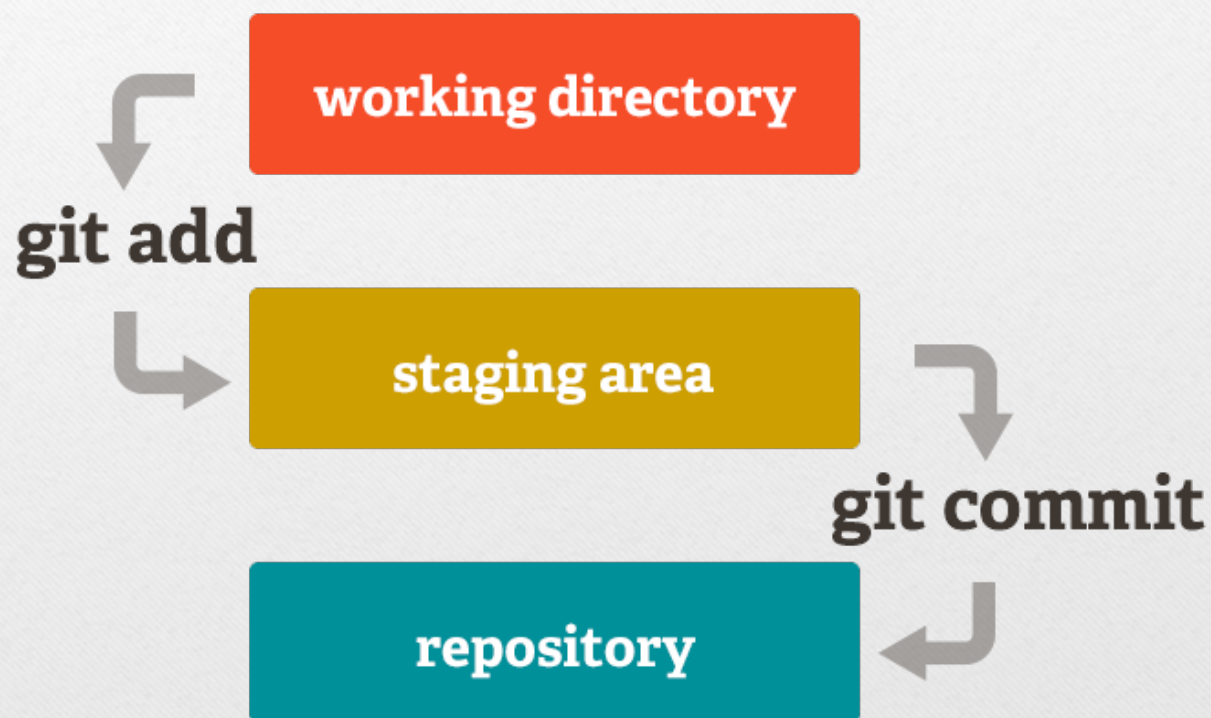


## 回顾

1. 修改了 HelloWorld.java
2. 新建了 readme.txt
3. 提交了修改：commit



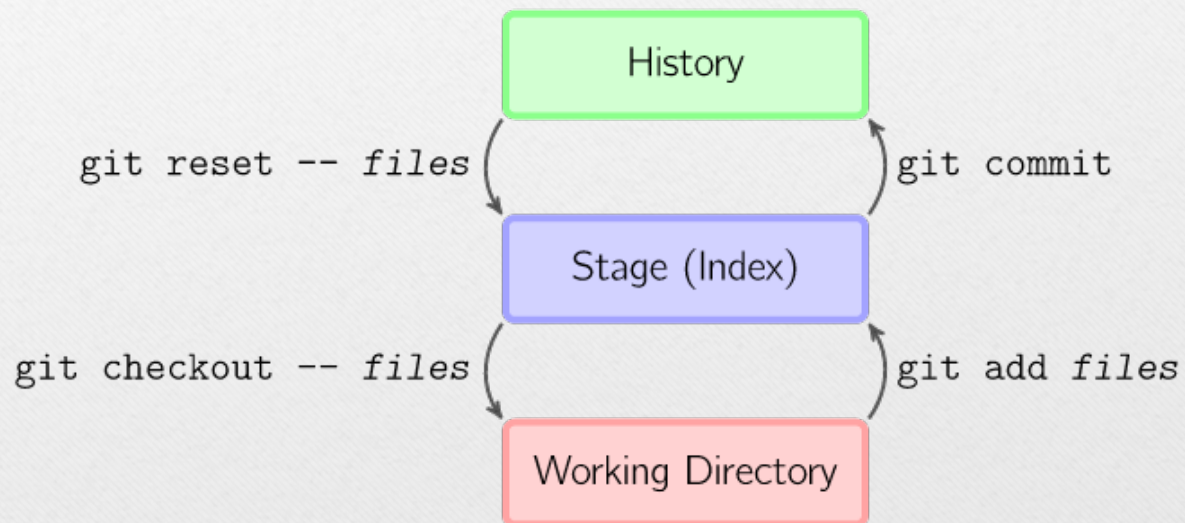
# 总结



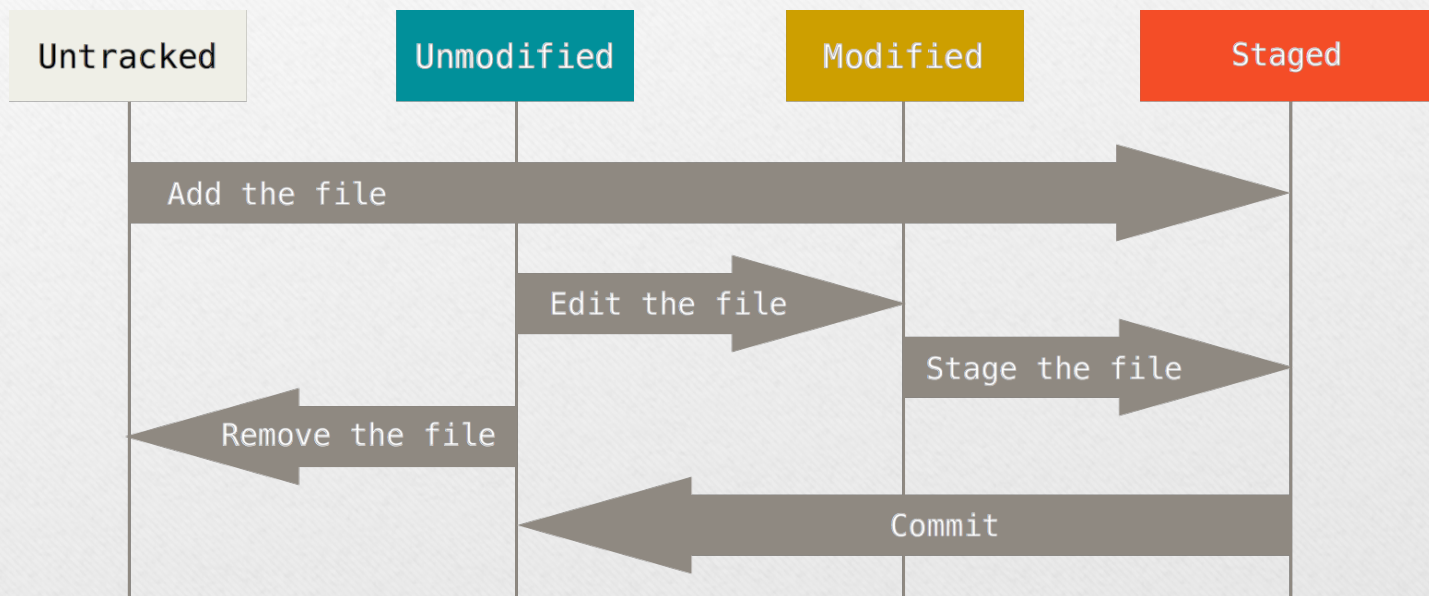


# 总结

---



# 总结





git log

---

查看历史记录

`git log --pretty=oneline`



git reset

---

时光机、后悔药  
回到过去





# Git深入学习

---

- .gitignore
- Git分支、HEAD
- Markdown 语法

# 远程仓库(remote repository)

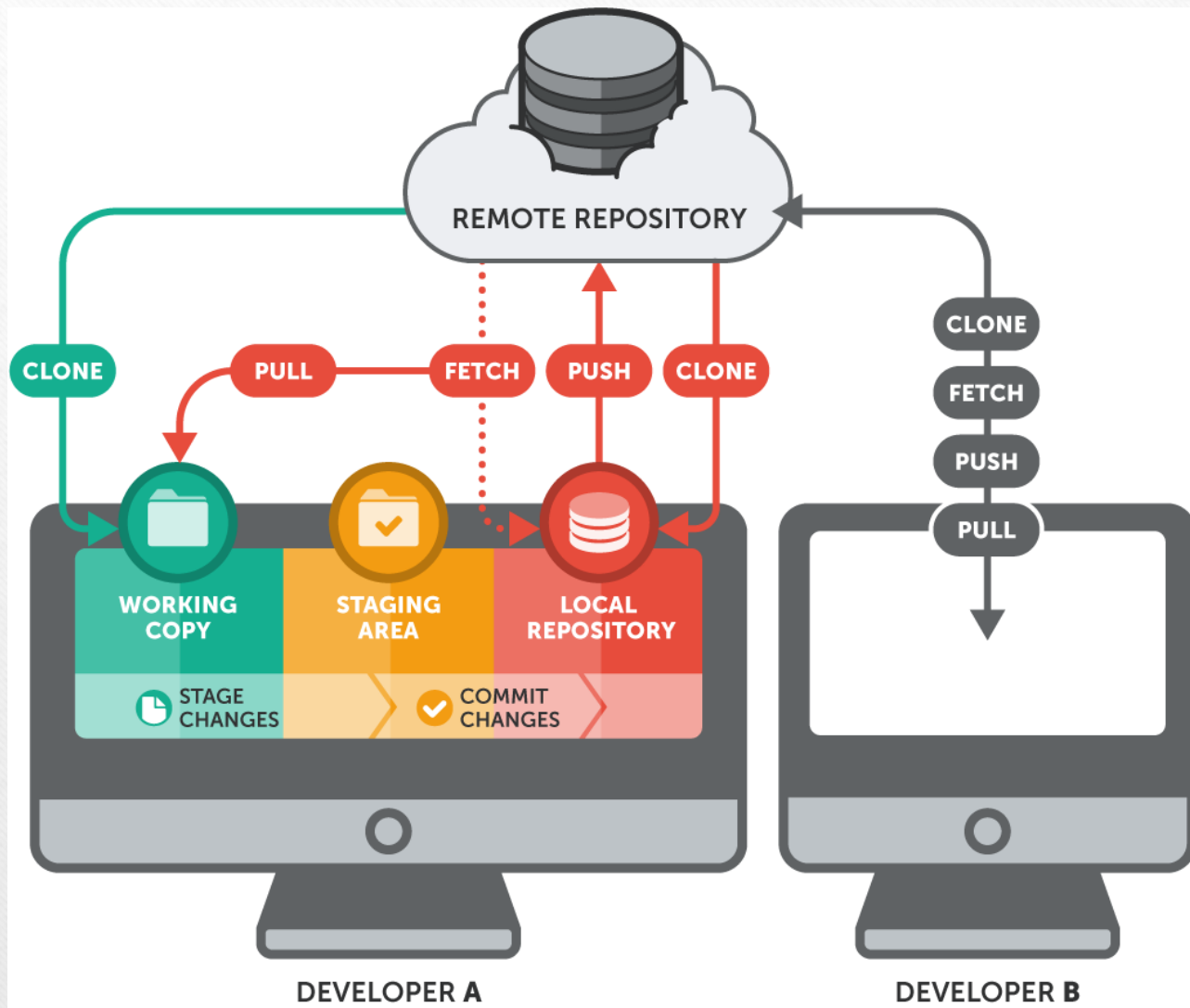
---

可以自己搭建Git服务器存放远程仓库

目前GitHub最流行

以GitHub为例介绍远程仓库

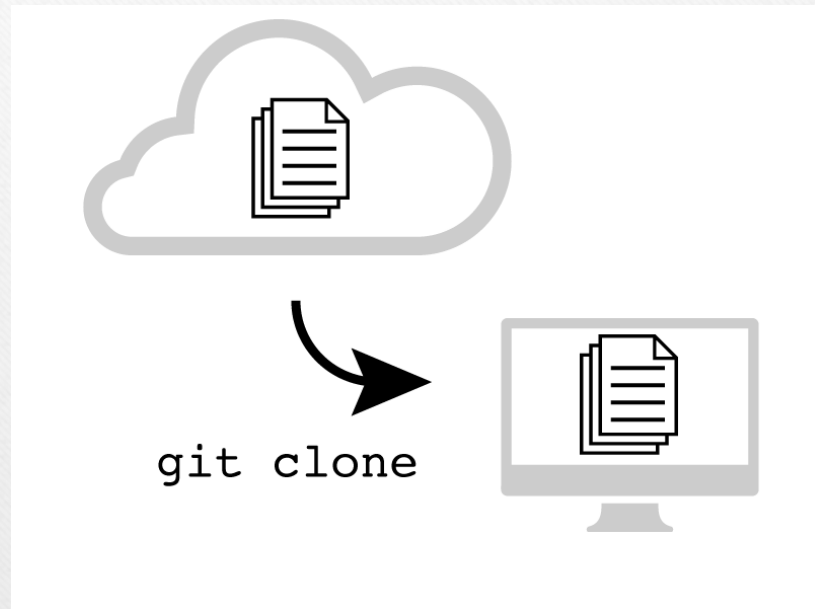




git clone

---

注意clone和pull的区别







This repository Search

Pull requests Issues Gist



You don't have any verified emails. We recommend [verifying](#) at least one email.

Email verification helps our support team verify ownership if you lose account access and allows you to receive all the notifications you ask for.



googlesamples / android-Camera2Raw

Watch 14

Star 39

Fork 21

6 commits

1 branch

0 releases

1 contributor



Branch: master

android-Camera2Raw / +



Auto-update



google-automerger authored 11 days ago

latest commit 1a9626a60f

.google	Auto-update	4 months ago
Application	Auto-update	11 days ago
gradle/wrapper	Auto-update	4 months ago
screenshots	Auto-update	4 months ago
CONTRIB.md	Auto-update	4 months ago
CONTRIBUTING.md	Auto-update	4 months ago
LICENSE	Auto-update	4 months ago
README.md	Auto-update	26 days ago
build.gradle	Auto-update	4 months ago
gradlew	Auto-update	4 months ago
gradlew.bat	Auto-update	4 months ago

Code

Issues 1

Pull requests 0

Wiki

Pulse

Graphs

Subversion checkout URL

<https://github.com/googlesamples/android-Camera2Raw>

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

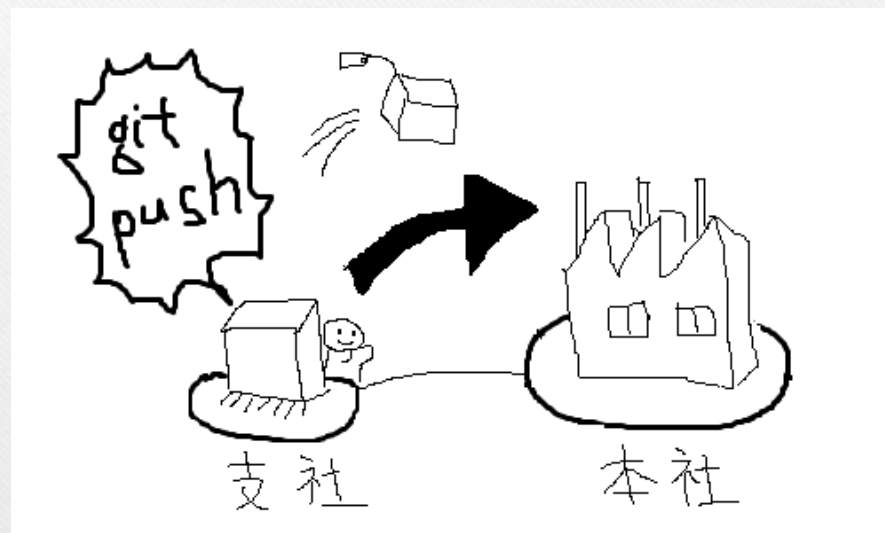
Clone in Desktop

Download ZIP

git clone https://github.com/googlesamples/android-Camera2Raw

git push

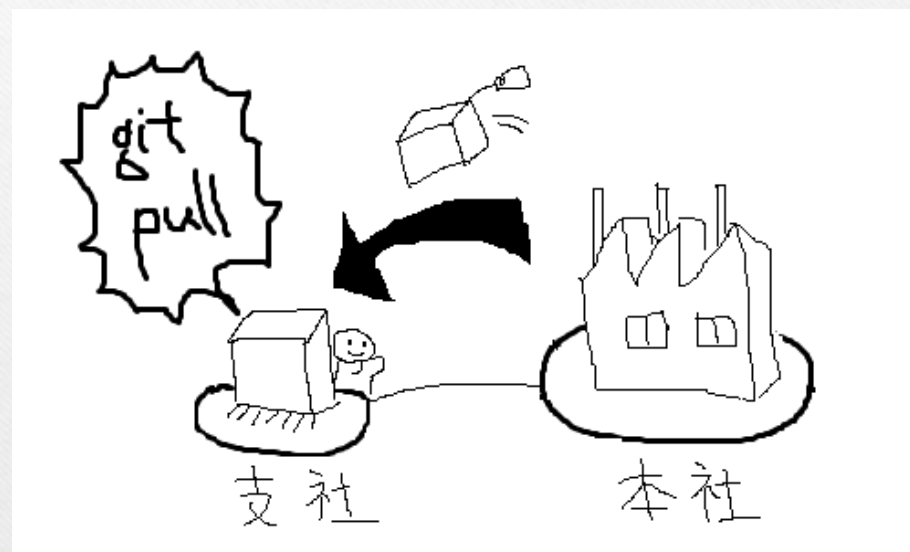
---



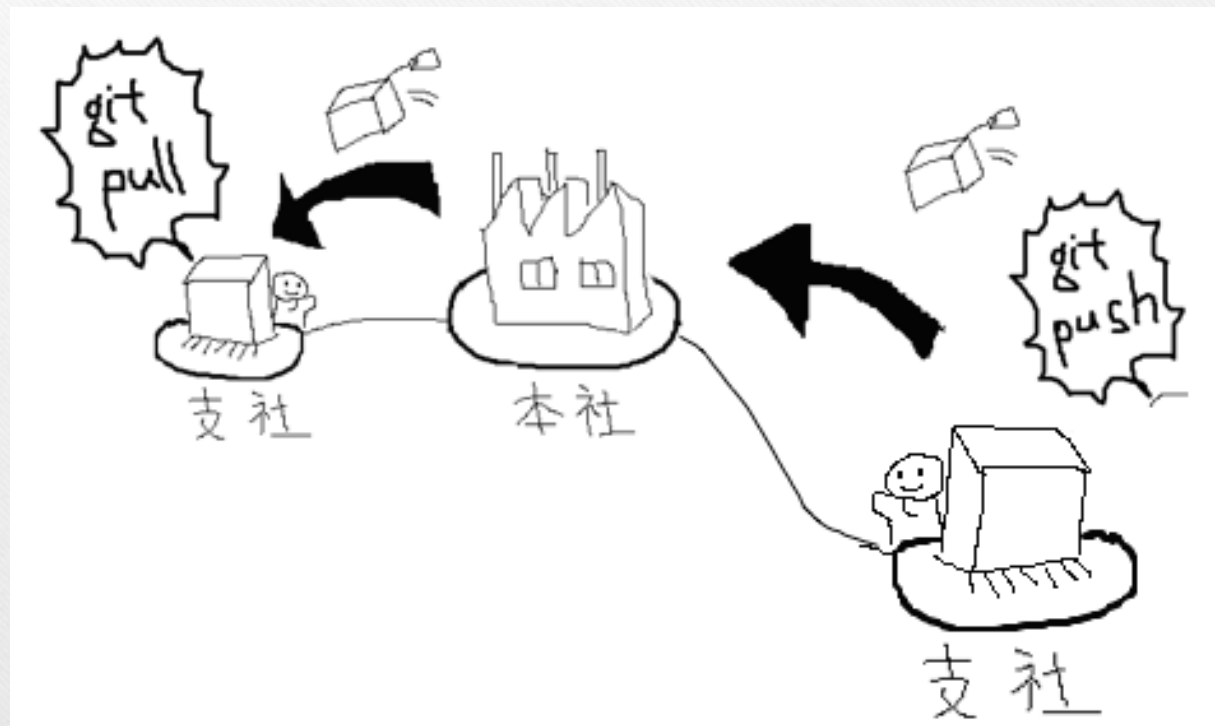


git pull

---



# 多人协作





# 安装Git

---

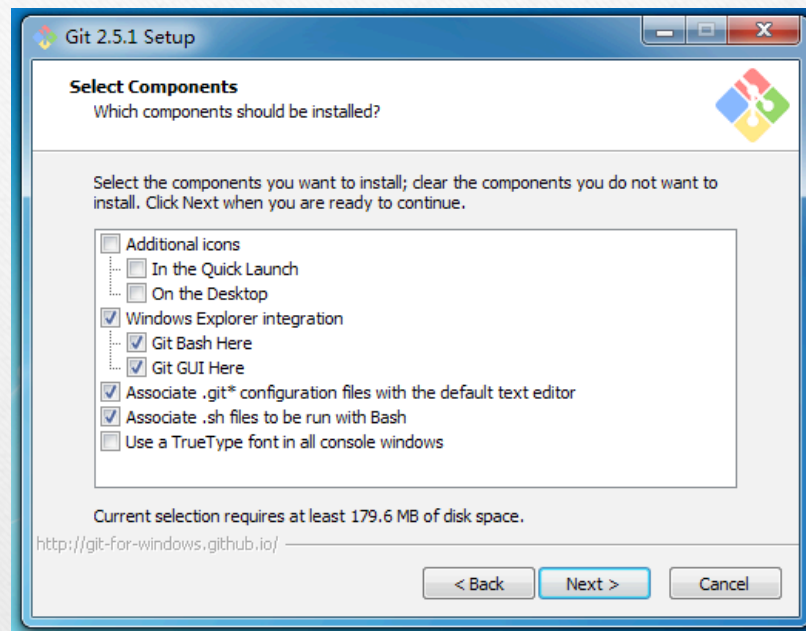
Git可以在Windows、Linux、OS X等平台使用  
我们介绍Windows下的安装

# 安装需要的组件

Git BASH (推荐)

Git GUI

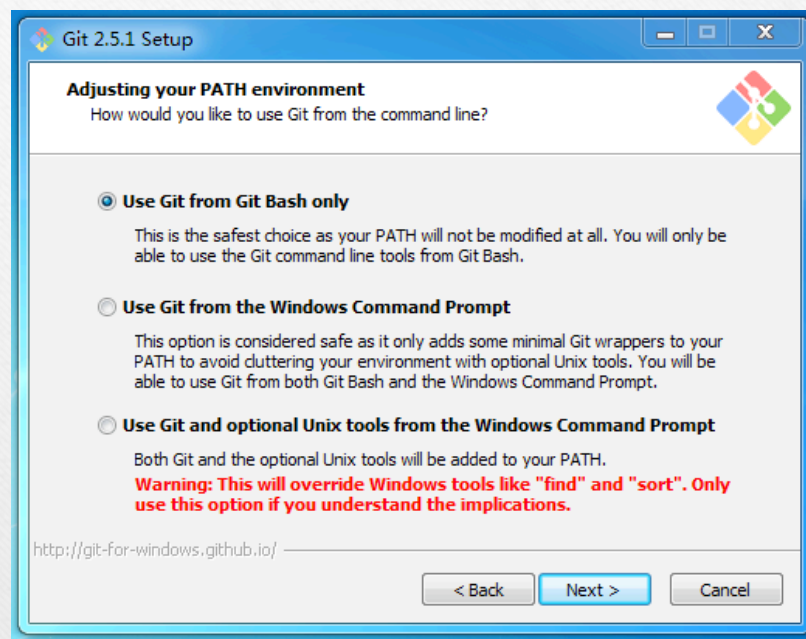
Git CMD





## 是否需要在Win命令行下使用Git

如果希望能够在Windows命令提示符下使用Git，要选中第二个。



## 行结束符

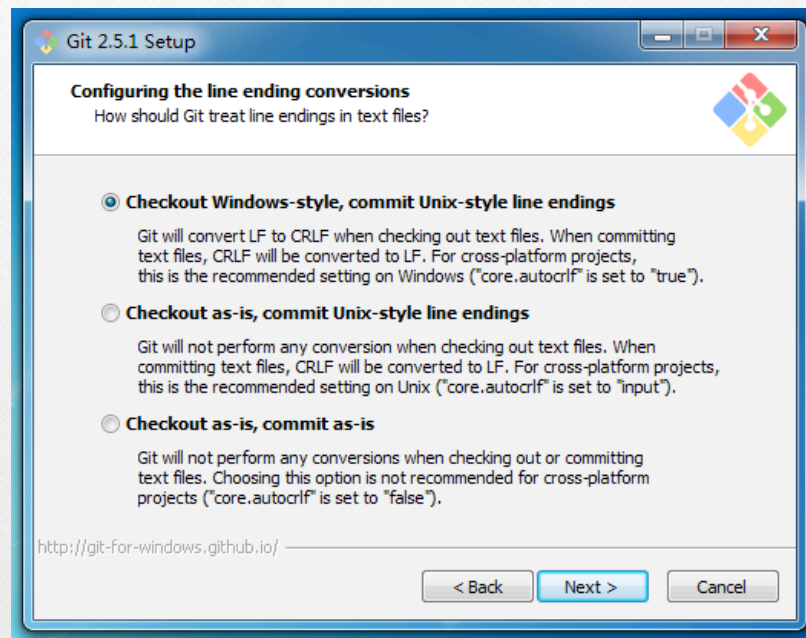
不同平台的行末符不同，  
这会导致代码在不同平台  
迁移时产生问题。

LF(line feed)

CR(carriage return)

Windows : CRLF

Unix/Linux/OS X : LF



<https://en.wikipedia.org/wiki/Newline>



# 在IDE中使用Git

---

IDE可以大大提高生产效率

主流IDE都集成了Git

这部分自己去学吧