

Git&GitHub

1 版本控制工具应该具备的功能

- ▶ 协同修改
 - 多人并行不悖的修改服务器端的同一个文件。
- ▶ 数据备份
 - 不仅保存目录和文件的当前状态,还能够保存每一个提交过的历史状态。
- ▶ 版本管理
 - 在保存每一个版本的文件信息的时候要做到不保存重复数据,以节约存储空间,提高运行效率。这方面 SVN 采用的是增量式管理的方式,而 Git 采取了文件系统快照的方式。
- ▶ 权限控制
 - 对团队中参与开发的人员进行权限控制。
 - 对团队外开发者贡献的代码进行审核——Git 独有。
- ▶ 历史记录
 - 查看修改人、修改时间、修改内容、日志信息。
 - 将本地文件恢复到某一个历史状态。
- ▶ 分支管理
 - 允许开发团队在工作过程中多条生产线同时推进任务,进一步提高效率。

2 版本控制简介

2.1版本控制

工程设计领域中使用版本控制管理工程蓝图的设计过程。在IT开发过程中也可以 使用版本控制思想管理代码的版本迭代。

2.2版本控制工具

思想:版本控制 实现:版本控制工具

集中式版本控制工具: CVS、SVN、VSS······







3 Git 简介

3.1Git 简史



3.3Git 的优势

- > 大部分操作在本地完成,不需要联网
- ▶ 完整性保证
- ▶ 尽可能添加数据而不是删除或修改数据
- ▶ 分支操作非常快捷流畅
- ▶ 与 Linux 命令全面兼容



3.4Git 安装

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Select Destination Location				
Where should Git be installed?				\mathbf{X}
1999 (1997)				-
Setup will install Git into the followi	ng folder.			
To continue, click Next. If you would like to	select a different fold	er, click Bro	wse.	_
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Configuring extra options					
Which features would you like to	enable?				\diamond
Enable file system cachir	19				
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Enable Git Credential Ma	nager				
The <u>Git Credential Manager</u> for Windows, most notably Team Services and GitHub.	for Windows provid multi-factor authent (requires .NET frame	es secure G ication supp ework v4.5.	t credential ort for Visua 1 or or later	storage al Studio).	
Enable symbolic links					
Enable <u>symbolic links</u> (requin Please note that existing re	res the SeCreateSyn positories are unaffe	nbolicLink pe ected by thi	rmission). s setting.		
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🔥 Git 2.17.0 Setup		_			×
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3.6Git 和代码托管中心

代码托管中心的任务:维护远程库

▶ 局域网环境下



- GitLab 服务器
- ▶ 外网环境下
 - GitHub
 - 码云

3.7本地库和远程库

3.7.1 团队内部协作





3.7.2 跨团队协作



- 4 Git 命令行操作
 - 4.1本地库初始化
 - ▶ 命令: git add

效果								
\$ 11 .git/								
total 7								
-rw-rr	1	Lenovo	197121	130	5月	10	16:53	config
-rw-rr	1	Lenovo	197121	73	5月	10	16:53	description
-rw-rr	1	Lenovo	197121	23	5月	10	16:53	HEAD
drwxr-xr-x	1	Lenovo	197121	0	5月	10	16:53	hooks/
drwxr-xr-x	1	Lenovo	197121	0	5月	10	16:53	info/
drwxr-xr-x	1	Lenovo	197121	0	5月	10	16:53	objects/
drwxr-xr-x	1	Lenovo	197121	0	5月	10	16:53	refs/

▶ 注意:.git 目录中存放的是本地库相关的子目录和文件,不要删除,也不要胡 乱修改。

4.2 设置签名

▶ 形式

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用户名: tom

Email 地址: goodMorning@atguigu.com

- ▶ 作用:区分不同开发人员的身份
- 辨析:这里设置的签名和登录远程库(代码托管中心)的账号、密码没有任何关系。
- ▶ 命令
 - 项目级别/仓库级别: 仅在当前本地库范围内有效
 - git config user.name tom_pro
 - git config user.email goodMorning_pro@atguigu.com
 - ◆ 信息保存位置: ./.git/config 文件



- 系统用户级别:登录当前操作系统的用户范围
 - git config --global user.name tom_glb
 - git config --global goodMorning_pro@atguigu.com
 - ♦ 信息保存位置: ~/.gitconfig 文件



- 级别优先级
 - 就近原则:项目级别优先于系统用户级别,二者都有时采用项目级别的签名
 - ◆ 如果只有系统用户级别的签名,就以系统用户级别的签名为准
 - ◆ 二者都没有不允许

4.3基本操作

4.3.1 状态查看

git status 查看工作区、暂存区状态

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4.3.2 添加

git add [file name] 将工作区的"新建/修改"添加到暂存区

4.3.3 提交

git commit -m "commit message" [file name] 将暂存区的内容提交到本地库

4.3.4 查看历史记录

git log

commit	e5fee	e992a	adal	o620d	4331	29318	e85545	f6376f7	'dc
Author:	tom	pro	<go< th=""><th>oodMo</th><th>rning</th><th>g_pro(</th><th>atgui</th><th>gu.com></th><th></th></go<>	oodMo	rning	g_pro(atgui	gu.com>	
Date:	Fri	May	11	14:5	3:40	2018	+0800		

insert nnnnnnnn edit

多屏显示控制方式: 空格向下翻页 b向上翻页 q退出

git log --pretty=oneline 64011afc1b5fbdd35db8d55e52f824bdf819dee2 (HEAD -> master) insert qqqqqqqq edit 526eb78bd21618dda77a366edbc65a6e99ad63d7 insert pppppp edit 0a6fc6c266c2b7a6bc8839725344c93cce83db0c insert oooooo edit

git log --oneline

64011af (HEAD -> master) insert qqqqqqqq edit 526eb78 insert pppppp edit 0a6fc6c insert oooooo edit

git reflog

64011af	(HEAD -> I	master)	HEAD@{0]	: comm	it:	insert	qqqqqqqq	edit
526eb78	HEAD@{1}:	commit:	insert	pppppp	edi	t		
0a6fc6c	HEAD@{2}:	commit:	insert	000000	edi	t		
e5fee99	HEAD@{3}:	commit:	insert	nnnnnn	nnn	edit		

HEAD@{移动到当前版本需要多少步}

4.3.5 前进后退

▶ 本质



fd83eb9 (HEAD -> master) HEAD@{0}: commit: insert qqqqqqqq edit
HEAD <pre>>7bf0e31 HEAD@{1}: commit: insert pppppp edit</pre>
2679109 HEAD@{2}: commit: insert oooooo edit
9 <mark>a9ebe0</mark> HEAD@{3}: commit: insert nnnnnnnn edit
<pre>49f1bd3 HEAD@{4}: commit: insert mmmmmmmm edit</pre>
a6ace91 HEAD@{5}: commit: insert lllllll edit
$3dd95d7$ HEAD@{6}: commit: insert kkkkkkkkk edit
42e7e84 HEAD@{7}: commit: insert jjjjjjj edit
7c265b1 HEAD@{8}: commit: insert iiiiiiii
c309b92 HEAD@{9}: commit: insert hhhhhh edit
7305cd8 HEAD@{10}: commit: insert gggggggg edit
ede116d HEAD@{11}: commit: insert fffffff edit
6325c55 HEAD@{12}: commit: insert eeeeeee edit
a709ad9 HEAD@{13}: commit: for test history
bfb79b7 HEAD@{14}: commit: My second commit.modify good.txt
ac5c801 HEAD@{15}: commit (initial): My first commit.new file good.txt
+

- ▶ 基于索引值操作[推荐]
 - git reset --hard [局部索引值]
 - git reset --hard a6ace91
- ▶ 使用^符号:只能后退
 - git reset --hard HEAD^
 - 注: 一个^表示后退一步, n 个表示后退 n 步
- ▶ 使用~符号:只能后退
 - git reset --hard HEAD~n
 - 注:表示后退 n 步

4.3.6 reset 命令的三个参数对比

- ► --soft 参数
 - 仅仅在本地库移动 HEAD 指针



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4.3.7 删除文件并找回

- ▶ 前提:删除前,文件存在时的状态提交到了本地库。
- ▶ 操作: git reset --hard [指针位置]
 - 删除操作已经提交到本地库:指针位置指向历史记录
 - 删除操作尚未提交到本地库:指针位置使用 HEAD
- 4.3.8 比较文件差异
 - ➢ git diff [文件名]
 - 将工作区中的文件和暂存区进行比较
 - ▶ git diff [本地库中历史版本] [文件名]
 - 将工作区中的文件和本地库历史记录比较
 - ▶ 不带文件名比较多个文件

4.4分支管理

- 4.4.1 什么是分支?
 - 在版本控制过程中,使用多条线同时推进多个任务。



- 4.4.2 分支的好处?
 - ▶ 同时并行推进多个功能开发,提高开发效率
 - 各个分支在开发过程中,如果某一个分支开发失败,不会对其他分支有任何影响。失败的分支删除重新开始即可。

4.4.3 分支操作

- ▶ 创建分支
 - git branch [分支名]
- ▶ 查看分支
 - git branch -v
- ▶ 切换分支
 - git checkout [分支名]
- ▶ 合并分支
 - 第一步: 切换到接受修改的分支(被合并,增加新内容)上 git checkout [被合并分支名]

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- 第二步:执行 merge 命令 git merge [有新内容分支名]
- ▶ 解决冲突
 - 冲突的表现



- 冲突的解决
 - ◆ 第一步:编辑文件,删除特殊符号
 - 第二步:把文件修改到满意的程度,保存退出
 - ▶ 第三步: git add [文件名]
 - ◆ 第四步: git commit -m "日志信息"
 - 注意:此时 commit 一定不能带具体文件名

5 Git 基本原理

5.1哈希



哈希是一个系列的加密算法,各个不同的哈希算法虽然加密强度不同,但是有以下 几个共同点:

①不管输入数据的数据量有多大,输入同一个哈希算法,得到的加密结果长度固定。 ②哈希算法确定,输入数据确定,输出数据能够保证不变

③哈希算法确定,输入数据有变化,输出数据一定有变化,而且通常变化很大 ④哈希算法不可逆

Git 底层采用的是 SHA-1 算法。

哈希算法可以被用来验证文件。原理如下图所示:





Git 就是靠这种机制来从根本上保证数据完整性的。

5.2Git 保存版本的机制

5.2.1 集中式版本控制工具的文件管理机制

以文件变更列表的方式存储信息。这类系统将它们保存的信息看作是一组基本 文件和每个文件随时间逐步累积的差异。



5.2.2 Git 的文件管理机制

Git 把数据看作是小型文件系统的一组快照。每次提交更新时 Git 都会对当前的全部文件制作一个快照并保存这个快照的索引。为了高效,如果文件没有修改, Git 不再重新存储该文件,而是只保留一个链接指向之前存储的文件。所以 Git 的 工作方式可以称之为快照流。





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5.3Git 分支管理机制

5.3.1 分支的创建









6 GitHub

6.1账号信息

GitHub 首页就是注册页面: https://github.com/

Email 地址: atguigu2018ybuq@aliyun.com GitHub 账号: atguigu2018ybuq
Email 地址: atguigu2018lhuc@aliyun.com GitHub 账号: atguigu2018lhuc
Email 地址: atguigu2018east@aliyun.com GitHub 账号: atguigu2018east

6.2创建远程库





Create a new repository

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

0	这里输入仓库名
atguigu2018ybuq -	/ (haushan /
Great repository names are Description (optional)	e short and memorable. Need inspiration? How about fuzzy-octo-lamp.
 Public Anyone can see this re Private You choose who can s 	epository. You choose who can commit. see and commit to this repository.
Initialize this repository This will let you immediatel Add .aitianore: None -	y with a README y clone the repository to your computer. Skip this step if you're importing an existing repository.
Create repository	点这里创建即可
创建远程库地址 git remote -v 查看当前 git remote add [别名] [:	别名 所有远程地址别名 远程地址]
<pre>\$ git remote add o Lenovo@DESKTOP-SAV \$ git remote -v origin https://gi origin https://gi</pre>	rigin https://github.com/atguigu2018ybuq/huashan.git 98C0 MINGW64 /d/workspaces/GitSpaceVideo/huashan (master thub.com/atguigu2018ybuq/huashan.git (fetch) thub.com/atguigu2018ybuq/huashan.git (push)
10 .3×	

6.4推送

git push [别名] [分支名]

```
$ git push origin master
Counting objects: 3, done.
Writing objects: 100% (3/3), 247 bytes | 247.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/atguigu2018ybuq/huashan.git
 * [new branch] master -> master
```

6.5克隆

▶ 命令

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	git origin	[远程地址]
--	------------	--------

<pre>\$ git clone https://github.com/atguigu2018ybuq/huashan.git</pre>
Cloning into 'huashan'
remote: Counting objects: 10, done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 10 (delta 0), reused 3 (delta 0), pack-reused (
Unpacking objects: 100% (10/10), done.

- ▶ 效果
 - 完整的把远程库下载到本地
 - 创建 origin 远程地址别名
 - 初始化本地库

6.6团队成员邀请

atguigu	2018ybuq / <mark>h</mark> ı	Jashan				Watch ▼
<> Code	() Issues ()	17 Pull requests 0	Projects 0	💷 Wiki	lili Insights	Settings
			т. Т			
Options		Collaborators			Pu	sh access to the reposit
Collaborators Branches		This repositor	y doesn't have any collab	orators yet. Use tl	ne form below to add a	collaborator.
Webhooks Integrations & s	services	Search by username, full You'll only be able to find a G	name or email address itHub user by their email add	ress if they've chose	n to list it publicly. Otherwis	e, use their username
Deploy keys		atguigu2018lhuc				→ Add collaborato
Awa	aiting atguigu2(18lhuc's response			Co	py invite link 🔻
Search by You'll only b	username, fr	JII name or ema GitHub user by the	Copy invite atguigu2018lhud	link c's shareable	invitation link.	×
instea <mark>d.</mark>			https://gith	ub.com/atg	uigu2018ybuq/H	nuash 🕞

"岳不群"其他方式把邀请链接发送给"令狐冲","令狐冲"登录自己的 GitHub 账号,访问邀请链接。





atguigu2018ybuq invited you to collaborate

Accept invitation

6.7拉取

- pull=fetch+merge
- ▶ git fetch [远程库地址别名] [远程分支名]
- ▶ git merge [远程库地址别名/远程分支名]
- ▶ git pull [远程库地址别名] [远程分支名]

6.8解决冲突

- ▶ 要点
 - 如果不是基于 GitHub 远程库的最新版所做的修改,不能推送,必须先拉取。

Decline

- 拉取下来后如果进入冲突状态,则按照"分支冲突解决"操作解决即可。
- ▶ 类比
 - 债权人:老王
 - 债务人:小刘
 - 老王说: 10 天后归还。小刘接受,双方达成一致。
 - 老王媳妇说:5天后归还。小刘不能接受。老王媳妇需要找老王确认后再执行。

6.9跨团队协作

Fork

atguigu2018	Bybuq / <mark>hua</mark>	shan					0 \star St	ar 0 Fork 1
<> Code ①	Issues 0	() Pull requests 0	Projects 0	🗐 Wiki	l <u>ılı</u> Insights	以"东7	方不败'	'的身份点Fork
No description, v	vebsite, or top	oics provided.						
@ 14	commits		រ្ហ <mark>ិវ</mark> branch		🛇 0 releases		<u>22</u> 0	contributors
Branch: master 🕶	New pull requ	iest			Create new fi	le Upload files	Find file	Clone or download -
shuai resolve o	conflict					Late	st commit 1	.093173 17 minutes ago
🖹 huashanjianfa	.txt			resolve conf	lict			17 minutes ago



Forking atguigu2018ybuq/huashan

It should only take a few seconds.



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	kuihua			
	Write Preview	AA⊤ B i	"	E = * @
	葵花宝典,武林至尊,你值得拥有!			
	Attach files by dragging & dropping, selec	ting them, or pasting from	the clipboard.	
	Allow edits from maintainers. Learn	more		Create pull request
•	Code ① Issues 0 ①	Pull requests 1		
	 パ 1 Open ✓ 0 Closed パ 老岳, 你拜托我的事 	青办好啦!		
	#1 opened 2 minutes ago by "丘不群"上	y atguigu2018east		
▶ 对话	ш / чт љ	(ZE		
Page	Write Preview	AA⊤ B i	" ১৩ 🗄	≣ *≡ • • @ ■
	老东,你这代码靠谱吗?练了会不会有	十么危险?		
	Attach files by dragging & dropping or sel	ecting them.		
	III Styling with Markdown is supported		Close and con	nment Comment

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	atguigu2018east commented 4 minutes ago
	葵花宝典,武林至尊,你值得拥有!
	-o- 💽 kuihua
20	atguigu2018ybuq commented 12 seconds ago
	老东,你这代码靠谱吗?练了会不会有什么危险?
E	atguigu2018east commented just now
	你放心吧,我都亲自练过啦!
审核代码	你放心吧,我都亲自练过啦!
审核代码 Conv	你放心吧,我都亲自练过啦! versation 2 ◆ Commits 1 艮 Checks 0 王 Files changed 1
审核代码 Conv Changes fr	你放心吧,我都亲自练过啦! versation 2
审核代码 Changes fr	你放心吧,我都亲自练过啦! versation 2 ◆ Commits 1 艮 Checks 0 予 Files changed 1 rom all commits ▼ Jump to ▼ +1 -0 ■ huashanjianfa.txt
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审核代码 Changes fr 1 2	你放心吧,我都亲自练过啦! versation 2 ◆ Commits 1 ▶ Checks 0 ➡ Files changed 1 om all commits ▼ Jump to ▼ +1 -0 ■ huashanjianfa.txt @@ -2,3 +2,4 @@ 2 我是令狐冲,我比岳不群还厉害! edit by 1huc 3 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
审核代码 Changes fr 1 2 3	你放心吧,我都亲自练过啦! versation 2 ◆ Commits 1 ₽ Checks 0 Files changed 1 om all commits ▼ Jump to ▼ +1-0 ■ ■ ■ ■ huashanjianfa.txt @@ -2,3 +2,4 @@ 2 我是令狐冲,我比岳不群还厉害! edit by 1huc 3 我是令狐冲,我比岳不群还厉害! edit by ybuq 4 史会独观九剑, pere, 你不会!

▶ 合并代码



	Continuous integration has not been set up Several apps are available to automatically catch bugs and enforce style.
	This branch has no conflicts with the base branch
	Merging can be performed automatically.
	Merge pull request - You can also open this in GitHub Desktop or view command line instructions.
	点这里台开代码
	Add more commits by pushing to the master branch on atguigu2018east/huashan.
	Merge pull request #1 from atquiqu2018east/master
	既然老东都说了没问题,那我就练一下试试吧!
	······ "@Fi
	"东方不败!你骗我!"
	Confirm marrie
	Cancer
	Add more commits by pushing to the master branch on atguigu2018east/huashan.
	Merge pull request #1 from atguigu2018east/master
	既然老东都说了没问题,那我就练一下试试吧!
	"啊啊!!" 琪与本次操作的日志信息
	"东方不败!你骗我!"
	Confirm merge Cancel
\land	将远程库修改拉取到本地
6.105	SH 登录
\triangleright	进入当前用户的家目录
	\$ cd ~
\triangleright	删除.ssh 目录
	\$ rm -rvf .ssh
\triangleright	运行命令生成.ssh 密钥目录
	\$ ssh-keygen -t rsa -C atguigu2018ybuq@aliyun.com
	[注意: 这里-C 这个参数是大写的 C]
\triangleright	进入.ssh 目录查看文件列表

- \$ cd .ssh \$ ls -IF
- ▶ 查看 id_rsa.pub 文件内容



\$ cat id_rsa.pub

- 复制 id_rsa.pub 文件内容, 登录 GitHub, 点击用户头像→Settings→SSH and GPG ≻ keys
- ≻ New SSH Key
- ▶ 输入复制的密钥信息
- ▶ 回到 Git bash 创建远程地址别名 git remote add origin_ssh git@github.com:atguigu2018ybuq/huashan.git
- ▶ 推送文件进行测试

7 Eclipse 操作

7.1工程初始化为本地库

工程→右键→Team→Share Project→Git ⊳

epository:	
/orking tree:	No repository selected
ath within repo	sitory:
th within repo	ository:

Create Repository



⋟ Finish

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7.2Eclipse 中忽略文件

▶ 概念: Eclipse 特定文件

这些都是 Eclipse 为了管理我们创建的工程而维护的文件,和开发的代码没有 直接关系。最好不要在 Git 中进行追踪,也就是把它们忽略。

.classpath 文件

.project 文件

.settings 目录下所有文件

▶ 为什么要忽略 Eclipse 特定文件呢?

同一个团队中很难保证大家使用相同的 IDE 工具,而 IDE 工具不同时,相关工 程特定文件就有可能不同。如果这些文件加入版本控制,那么开发时很可能需要为 了这些文件解决冲突。

Repository Mars
eclipse Juno
▶ GitHub 官网样例文件
https://github.com/github/gitignore
https://github.com/github/gitignore/blob/master/Java.gitignore
➢ 编辑本地忽略配直又件,又件名仕意 Lava gitignore
Compiled class file
*.class
Log file
*.log
BlueJ files
*.ctxt
Mobile Tools for Java (J2ME)
.mtj.tmp/

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# Package Files #		
*.jar		
*.war		
*.nar		
*.ear		
*.zip		
*.tar.gz		
*.rar		
# virtual machine crash logs, see http:/ hs_err_pid*	/www.java.com/en/dowr	nload/help/error_hotspot.xml
.classpath .project .settings target		
-		

- ➤ 在~/.gitconfig 文件中引入上述文件 [core]
 - excludesfile = C:/Users/Lenovo/Java.gitignore

[注意: 这里路径中一定要使用"/",不能使用"\"]

7.3推送到远程库

	Show In Copy Copy Qualified Name Paste Delete	Alt+Shift+W > Ctrl+C Ctrl+V Delete	pa ⊲a	ckage com.atguigu.gi Commit Stashes Push to Upstream Fetch from Upstream	Lt; Ctrl+# >	St	ring[] args) { st"):
> 🃇 src/test/ja > 📇 src/test/re 🖄 > 🛋 JRE Syster	Remove from Context Build Path	Ctrl+Alt+Shift+Down	♦	Pull Pull			
> 🗁 src	Source	Alt+Shift+S>		Remote	>	Ŷ	Push
pom.xml	Kelactor	Alt+Shift+17	豪	Switch To	>	Ŷ	Push Tags
1	Import			Advanced	>	÷	Fetch From
	Export		-	Synchronize Workspace		P	Configure Push to Upstream
S.	Refresh Close Project	F5	€€ ⊟\$	Merge Tool Merge		•	Configure Fetch from Upstream
	Assign Working Sets		ĥ	Rebase			
	Coverage As Run As Debug As	>	5	Create Patch Apply Patch			
	Profile As	>	*	Ignore			
	Validate Restore from Local History Java EE Tools Maven	>		Show in History Show in Repositories View Upgrade Projects			
	Team	>	54	Disconnect			



Location				
UR <u>I</u> :	https://github.com	n/atguigu2018ybuq/TestGi	t.git	Local File
Host:	github.com			
<u>R</u> epository pat	h: /atguigu2018ybu	q/TestGit.git		
Connection Protoco <u>l</u> : https Por <u>t</u> :	s ~			
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<u>P</u> assword:	•••••			
<u> S</u> tore in Secu	ure Store			
Add predefine	d specification			
Add Config	gured Push Specs	Add All Branches Sp	ec Add All T	ags Spec
Specifications f	for push			
Mode	Source Ref	Destination Ref	Force Update	Remove
🐈 Update	refs/heads/*	refs/heads/*		Û



			C	~
Confirm following expected	push result.		1	Ŷ
्र्∯ master → master [n	new branch]			
Message Details				
Repository				
https://github.	<pre>com/atguigu2018ybuq/TestGit.</pre>	git		
Cancel push if result woul	ld be different than above because of changes on nly when it is different from the confirmed result	on remote t above		
□ Cancel push if result woul □ Show dialog with result o	ld be different than above because of changes on nly when it is different from the confirmed result	on remote t above		
Cancel push if result woul Show dialog with result of	ld be different than above because of changes only when it is different from the confirmed result < <u>B</u> ack <u>N</u> ext > <u>Fin</u>	on remote t above ish	Canc	el



Push Results: https://github.com/atguigu2018ybuq/TestGit.git	
hed to https://github.com/atguigu2018ybuq/TestGit.git	
्रम्∯ master → master [new branch]	
essage Details	it ait
	100
	Clo
Sygen Eclipse 克隆工程操作 Import导入工程 ∭Import	
aygen Eclipse 克隆工程操作 Import导入工程 Import Select Import one or more projects from a Git Repository.	
A gen Eclipse 克隆工程操作 Import导入工程 ◎ Import Select Import one or more projects from a Git Repository. Select an import wizard:	
Aggen Eclipse 克隆工程操作 Import导入工程 Import Select Import one or more projects from a Git Repository. Select an import wizard: Type filter text	
xygen Eclipse 克隆工程操作 Import导入工程 Import Select Import one or more projects from a Git Repository. Select an import wizard: type filter text > @ General > @ EJB * @ Git Import projects from Git	



⊳

Select Repo	cation of Git R	e positories		G	T
type filter t	ext	ал. 			
📔 Exis	ting local repo ne URI	sitory			
いこれ亡存り	եվ ––՝ ՀՄ ԵՆ ԵՆ				
削远程库复f te new file	制工程地址 Upload files	Find file	Clone or download •		
前远程库复f te new file Clone Use Git	制工程地址 Upload files with HTTPS or checkout w	Find file	Clone or download - Use SSH ng the web URL.		
前远程库复的 Ite new file Clone Use Git https	制工程地址 Upload files with HTTPS or checkout w ://github.com	Find file 5 ⑦ ith SVN usin n/atguigu20	Clone or download - Use SSH ng the web URL. 218ybuq/TestG		



Location	粘贴
UR <u>I</u> :	https://github.com/atguigu2018ybuq/TestGit.git Local F
<u>H</u> ost:	github.com
<u>R</u> epository path	/atguigu2018ybuq/TestGit.git
Connection	
Protoco <u>l</u> : https	~
Por <u>t</u> :	
Authentication	
<u>U</u> ser:	atguigu2018ybuq
<u>P</u> assword:	•••••
<u>S</u> tore in Secu	e Store
0	< Back Next > Finish Cano



branch Selection				GIT
Select branches to clo branches will be crea	one from remote ted to track upd	repository. Remo ates for these brar	te tracking iches in the	-0-
Branches <u>o</u> f https://gi	thub.com/atguig	u2018ybuq/TestGit	.git:	
type filter text				
🗹 🖑 master				
Select All Deselect	All			
?	< <u>B</u> ack	Next >	Einish	Cancel
-		No. of the second se		
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着定工程的保存位置		x		
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▶ 指定工程导入方式,这里只能用: Import as general project



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7.5Kepler Eclipse 克隆工程操作

▶ 问题:不能保存到当前 Eclipse 工作区目录



Project name	TestGit233	33					
Directory	D:\worksp	aces\GitSp	aceVideoKepl	er\TestGit			
Import Pro	jects from	Git			02_0		
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Initial branch:	master	
Configuration	lodules	
Remote name	: origin	

7.6解决冲突

冲突文件→右键→Team→Merge Tool 修改完成后正常执行 add/commit 操作即可



8 Git 工作流

8.1概念

在项目开发过程中使用 Git 的方式

8.2分类

8.2.1 集中式工作流

像 SVN 一样,集中式工作流以中央仓库作为项目所有修改的单点实体。所有 修改都提交到 Master 这个分支上。

这种方式与 SVN 的主要区别就是开发人员有本地库。Git 很多特性并没有用到。



8.2.2 GitFlow 工作流

Gitflow 工作流通过为功能开发、发布准备和维护设立了独立的分支,让发布 迭代过程更流畅。严格的分支模型也为大型项目提供了一些非常必要的结构。



8.2.3 Forking 工作流

Forking 工作流是在 GitFlow 基础上,充分利用了 Git 的 Fork 和 pull request 的 功能以达到代码审核的目的。更适合安全可靠地管理大团队的开发者,而且能接受 不信任贡献者的提交。





8.3 GitFlow 工作流详解

8.3.1 分支种类

- ▶ 主干分支 master 主要负责管理正在运行的生产环境代码。永远保持与正在运行的生产环境
- 完全一致。
 - ▶ 开发分支 develop

主要负责管理正在开发过程中的代码。一般情况下应该是最新的代码。

➢ bug 修理分支 hotfix

主要负责管理生产环境下出现的紧急修复的代码。从主干分支分出,修 理完毕并测试上线后,并回主干分支。并回后,视情况可以删除该分支。

▶ 准生产分支(预发布分支) release

较大的版本上线前,会从开发分支中分出准生产分支,进行最后阶段的集 成测试。该版本上线后,会合并到主干分支。生产环境运行一段阶段较稳定后 可以视情况删除。

▶ 功能分支 feature

为了不影响较短周期的开发工作,一般把中长期开发模块,会从开发分支中独立出来。开发完成后会合并到开发分支。



8.3.2 GitFlow 工作流举例





8.3.4 具体操作

▶ 创建分支



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▶ 检出远程新分支



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▶ 合并结果

i:19)
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合并成功后,把 master 推送到远程。

9 Gitlab 服务器搭建过程

9.1 官网地址

首页: https://about.gitlab.com/ 安装说明: https://about.gitlab.com/installation/

9.2安装命令摘录

sudo yum install -y curl policycoreutils-python openssh-server cronie

sudo lokkit -s http -s ssh

sudo yum install postfix

sudo service postfix start

sudo chkconfig postfix on

curl https://packages.gitlab.com/install/repositories/gitlab/gitlab-ee/script.rpm.sh | sudo bash sudo EXTERNAL_URL="http://gitlab.example.com" yum -y install gitlab-ee

实际问题: yum 安装 gitlab-ee(或 ce)时,需要联网下载几百 M 的安装文件,非常耗时,所以应提前把所需 RPM 包下载并安装好。

下载地址为:

https://packages.gitlab.com/gitlab/gitlab-ce/packages/el/7/gitlab-ce-10.8.2-ce.0.el7.x86_64.rpm

9.3调整后的安装过程

sudo rpm -ivh /opt/gitlab-ce-10.8.2-ce.0.el7.x86_64.rpm

sudo yum install -y curl policycoreutils-python openssh-server cronie

sudo lokkit -s http -s ssh

sudo yum install postfix

sudo service postfix start

sudo chkconfig postfix on

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curl https://packages.gitlab.com/install/repositories/gitlab/gitlab-ce/script.rpm.sh | sudo bash sudo EXTERNAL_URL="http://gitlab.example.com" yum -y install gitlab-ce



当前步骤完成后重启。

9.4gitlab 服务操作

- ➤ 初始化配置 gitlab gitlab-ctl reconfigure
- ▶ 启动 gitlab 服务 gitlab-ctl start
- ➢ 停止 gitlab 服务 gitlab-ctl stop

9.5浏览器访问

访问 Linux 服务器 IP 地址即可,如果想访问 EXTERNAL_URL 指定的域名还需要配置 域名服务器或本地 hosts 文件。

初次登录时需要为 gitlab 的 root 用户设置密码。

Please create a password for your new account.

GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

Change your password	
New password	
Confirm new password	
Change your password	

root/atguigu2018good ※应该会需要停止防火墙服务: service firewalld stop

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