

Git(分布式版本控制工具)分支相关命令和实际应用

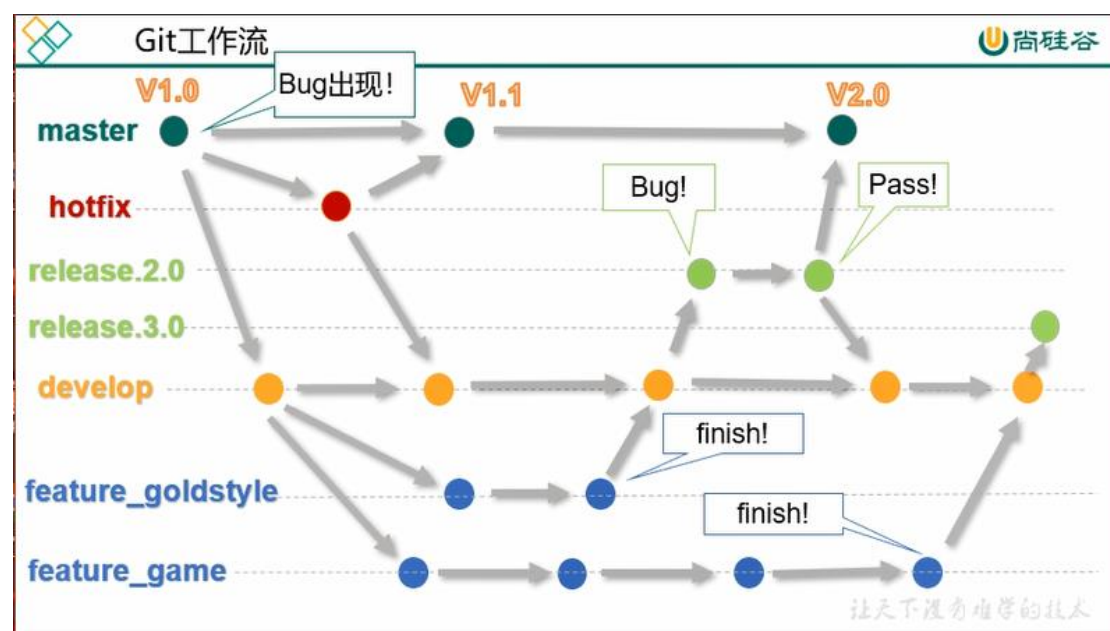
课堂重点：分支相关命令

 **Git实战操练—分支** 

- **创建分支**
  - `git branch <分支名>`
  - `git branch -v` 查看分支
- **切换分支**
  - `git checkout <分支名>`
  - 一步完成: `git checkout -b <分支名>`
- **合并分支**
  - 先切换到主干 `git checkout master`
  - `git merge <分支名>`
- **删除分支**
  - 先切换到主干 `git checkout master`
  - `git branch -D <分支名>`

让天下没有难学的技术

实际应用-工作流程



实操命令及运行结果：

创建 master 分支并提交

```
git init
```

```
git add .
```

```
git commit -m "V1.0"
```

```
git remote add origin https://gitee.com/ZhangShunHai/gitbranch.git
```

```
git pull origin master --allow-unrelated-histories
```

```
git push -u origin master
```

```

PS C:\Users\2016z\Desktop\testbranch> git init
Initialized empty Git repository in C:/Users/2016z/Desktop/testbranch/.git/
PS C:\Users\2016z\Desktop\testbranch> git add .
PS C:\Users\2016z\Desktop\testbranch> git commit -m "V1.0"
[master (root-commit) 84a335c] V1.0
 1 file changed, 1 insertion(+)
 create mode 100644 V1.0.txt
PS C:\Users\2016z\Desktop\testbranch> git remote add origin https://gitee.com/ZhangShunHai/gitbranch.git
PS C:\Users\2016z\Desktop\testbranch> git pull origin master --allow-unrelated-histories
warning: no common commits
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (4/4), done.
From https://gitee.com/ZhangShunHai/gitbranch
 * branch          master       -> FETCH_HEAD
 * [new branch]    master       -> origin/master
Merge made by the 'recursive' strategy.
 README.en.md | 36 ++++++
 README.md     | 37 ++++++
 2 files changed, 73 insertions(+)
 create mode 100644 README.en.md
 create mode 100644 README.md
PS C:\Users\2016z\Desktop\testbranch> git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 533 bytes | 133.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
remote: Powered By Gitee.com
To https://gitee.com/ZhangShunHai/gitbranch.git
 2ca62ed..1d6c761 master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

```


**张顺海 / gitbranch**
Unwatch 1 Fork 0

[代码](#)
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git分支命令测试和实际应用的简单测试用例
编辑

3 次提交
1 个分支
0 个标签
0 个发行版
1 位贡献者

master
+ Pull Request
+ Issue
文件
Web IDE
克隆/下载

张顺海 最后提交于 2分钟前 Merge branch 'master' of https://gitee.com/Zhan...

README.en.md	张顺海 Initial commit	5分钟前
README.md	张顺海 Initial commit	5分钟前
V1.0.txt	张顺海 V1.0	3分钟前

创建 feature 分支并提交

git checkout -b feature

git add .

git commit -m "个人分支开发"

git pull origin feature

git push origin feature

```

PS C:\Users\2016z\Desktop\testbranch> git checkout -b feature
Switched to a new branch 'feature'
PS C:\Users\2016z\Desktop\testbranch> git add .
PS C:\Users\2016z\Desktop\testbranch> git commit -m "个人分支开发"
[feature 1669abc] 个人分支开发
1 file changed, 1 insertion(+)
 create mode 100644 "\344\270\252\344\272\272\345\210\206\346\224\257.txt"
PS C:\Users\2016z\Desktop\testbranch> git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=origin/<branch> feature

PS C:\Users\2016z\Desktop\testbranch> git pull origin feature
fatal: Couldn't find remote ref feature
PS C:\Users\2016z\Desktop\testbranch> git push origin feature
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 313 bytes | 156.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Powered By Gitee.com
To https://gitee.com/ZhangShunHai/gitbranch.git
 * [new branch]      feature -> feature
PS C:\Users\2016z\Desktop\testbranch>

```

张顺海 / gitbranch

Unwatch 1 Fork 0

代码 Issues 0 Pull Requests 0 附件 0 Wiki 0 统计 DevOps 服务 管理

git分支命令测试和实际应用的简单测试用例

编辑

4 次提交

2 个分支

0 个标签

0 个发行版

1 位贡献者

feature

+ Pull Request

+ Issue

文件

Web IDE

克隆/下载

张顺海 最后提交于 2分钟前 个人分支开发

README.en.md	张顺海 Initial commit	9分钟前
README.md	张顺海 Initial commit	9分钟前
V1.0.txt	张顺海 V1.0	7分钟前
个人分支.txt	张顺海 个人分支开发	2分钟前

此时 feature 分支没有与 master 分支合并，所以

张顺海 / gitbranch

Unwatch 1 Fork 0

代码 Issues 0 Pull Requests 0 附件 0 Wiki 0 统计 DevOps 服务 管理

git分支命令测试和实际应用的简单测试用例

3 次提交 2 个分支 0 个标签 0 个发行版 1 位贡献者

master + Pull Request + Issue 文件 Web IDE 克隆/下载

张顺海 最后提交于 7分钟前 Merge branch 'master' of https://gitee.com/Zhan...

README.en.md	张顺海 Initial commit	10分钟前
README.md	张顺海 Initial commit	10分钟前
V1.0.txt	张顺海 V1.0	8分钟前

合并 feature 和 master 分支

git checkout master

git merge feature

git add .

git commit -m "master 分支合并 feature 分支"

git pull origin master

git push origin master

```
PS C:\Users\2016z\Desktop\testbranch> git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
PS C:\Users\2016z\Desktop\testbranch> git merge fuature
merge: fuature - not something we can merge
PS C:\Users\2016z\Desktop\testbranch> git merge feature
Updating 1d6c761..6476ecb
Fast-forward
 "\344\270\252\344\272\272\345\210\206\346\224\257.txt" | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 "\344\270\252\344\272\272\345\210\206\346\224\257.txt"
PS C:\Users\2016z\Desktop\testbranch> git add .
PS C:\Users\2016z\Desktop\testbranch> git commit -m "master 分支合并feature分支"
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\Users\2016z\Desktop\testbranch> git pull origin master
From https://gitee.com/ZhangShunHai/gitbranch
 * branch      master      -> FETCH_HEAD
Already up to date.
PS C:\Users\2016z\Desktop\testbranch> git push origin master
Total 0 (delta 0), reused 0 (delta 0)
remote: Powered By Gitee.com
To https://gitee.com/ZhangShunHai/gitbranch.git
 1d6c761..6476ecb master -> master
```

张顺海 / gitbranch

Unwatch 1 Fork 0

代码 Issues 0 Pull Requests 0 附件 0 Wiki 0 统计 DevOps 服务 管理

git分支命令测试和实际应用的简单测试用例

5 次提交 2 个分支 0 个标签 0 个发行版 1 位贡献者

master + Pull Request + Issue 文件 Web IDE 克隆/下载

张顺海 最后提交于 3分钟前 个人分支开发第二次提交

README.en.md	张顺海 Initial commit	18分钟前
README.md	张顺海 Initial commit	18分钟前
V1.0.txt	张顺海 V1.0	16分钟前
个人分支.txt	张顺海 个人分支开发第二次提交	3分钟前

删除 feature 分支

git checkout master

git branch -D feature

```
PS C:\Users\2016z\Desktop\testbranch> git checkout master
Already on 'master'
Your branch is up to date with 'origin/master'.
PS C:\Users\2016z\Desktop\testbranch> git branch -D feature
Deleted branch feature (was 6476ecb).
```