

`git branch` 命令用于列出，创建或删除分支。

简介

```
git branch [--color[=<when>] | --no-color] [-r | -a]
  [--list] [-v [--abbrev=<length> | --no-abbrev]]
  [--column[=<options>] | --no-column] [--sort=<key>]
  [(--merged | --no-merged) [<commit>]]
  [--contains [<commit>] [--no-contains [<commit>]]]
  [--points-at <object>] [--format=<format>] [<pattern>...]
git branch [--set-upstream | --track | --no-track] [-l] [-f] <branchname> [<start-point>]
git branch (--set-upstream-to=<upstream> | -u <upstream>) [<branchname>]
git branch --unset-upstream [<branchname>]
git branch (-m | -M) [<oldbranch>] <newbranch>
git branch (-d | -D) [-r] <branchname>...
git branch --edit-description [<branchname>]
```

描述

如果给出了`--list`，或者如果没有非选项参数，则列出现有的分支；当前分支将以星号突出显示。选项`-r`导致远程跟踪分支被列出，而选项`-a`显示本地和远程分支。如果给出了一个`<pattern>`，它将被用作一个 shell 通配符，将输出限制为匹配的分支。如果给出多个模式，如果匹配任何模式，则显示分支。请注意，提供`<pattern>`时，必须使用`--list`；否则命令被解释为分支创建。

使用`--contains`，仅显示包含命名提交的分支(换句话说，提示提交的分支是指定的提交的后代)，`--no-contains`会反转它。随着已经有了，只有分支合并到命名提交(即从提交提交可以提前提交的分支)将被列出。使用`--no`合并只会将未合并到命名提交中的分支列出。如果缺少`<commit>`参数，则默认为 `HEAD`(即当前分支的提示)。

示例

以下是一些示例 -

1. 查看当前有哪些分支

```
$ git branch
  master
* wchar_support
```

上面显示结果中，当前有两个分支：`master` 和 `wchar_support`，当前在 `wchar_support` 分支上，它前面有个星号(*)。

2. 新建一个分支

下面命令将创建一个分支：*dev2* -

```
$ git branch dev2
```

3. 切换到指定分支

下面命令将切换到指定分支：*dev2* -

```
$ git checkout dev2
```

```
$ # 再次查看分支
```

```
$ git branch
```

```
* dev2
```

```
master
```

```
wchar_support
```

4. 查看本地和远程分支

```
$ git branch -a
```

```
* dev2
```

```
master
```

```
wchar_support
```

```
remotes/origin/HEAD -> origin/master
```

```
remotes/origin/master
```

```
remotes/origin/wchar_support
```

5. 将更改添加到新建分支上

```
$ git status
```

```
On branch dev2
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
newfile.txt
```

```
nothing added to commit but untracked files present (use "git add" to track)
```

```
Administrator@MY-PC /D/worksp/sample (dev2)
```

```
$ git add newfile.txt
```

```
Administrator@MY-PC /D/worksp/sample (dev2)
```

```
$ git commit newfile.txt -m "commit a new file: newfile.txt"
```

```
[dev2 c5f8a25] commit a new file: newfile.txt
1 file changed, 2 insertions(+)
create mode 100644 newfile.txt

Administrator@MY-PC /D/worksp/sample (dev2)

$ git push origin dev2
Username for 'http://git.oschina.net': 769728683@qq.com
Password for 'http://769728683@qq.com@git.oschina.net':
Counting objects: 12, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (8/8), done.
Writing objects: 100% (11/11), 965 bytes | 0 bytes/s, done.
Total 11 (delta 3), reused 0 (delta 0)
To http://git.oschina.net/yiibai/sample.git
 * [new branch]      dev2 -> dev2

Administrator@MY-PC /D/worksp/sample (dev2)
$
```

6. 修改分支的名字

```
$ git branch
* dev2
  master
  wchar_support

Administrator@MY-PC /D/worksp/sample (dev2)
$ git branch -m dev2 version.2

Administrator@MY-PC /D/worksp/sample (version.2)
$ git branch -r
  origin/HEAD -> origin/master
  origin/dev2
  origin/master
  origin/wchar_support

Administrator@MY-PC /D/worksp/sample (version.2)
```

```
$ git branch
  master
* version.2
  wchar_support
```

7. 删除远程分支

删除一个名称为：*dev2* 的远客

```
$ git branch
  master
* version.2
  wchar_support
```

Administrator@MY-PC /D/worksp/sample (version.2)

```
$ git push origin --delete dev2
```

Username for 'http://git.oschina.net': 769728683@qq.com

Password for 'http://769728683@qq.com@git.oschina.net':

To http://git.oschina.net/yiibai/sample.git

```
- [deleted]          dev2
```

8. 合并某个分支到当前分支

合并分支：*version.2* 到当前分支(*master*)，如下 -

```
$ git branch
  master
* version.2
  wchar_support
```

Administrator@MY-PC /D/worksp/sample (version.2)

```
$ git checkout master
```

Switched to branch 'master'

Your branch is up-to-date with 'origin/master'.

Administrator@MY-PC /D/worksp/sample (master)

```
$ git status
```

On branch master

Your branch is up-to-date with 'origin/master'.

nothing to commit, working directory clean

```
Administrator@MY-PC /D/worksp/sample (master)
$ git merge version.2
Updating e7d1734..c5f8a25
Fast-forward
 mydir/text.txt | 0
newfile.txt     | 2 ++
src/string.py   | 5 ++++-
3 files changed, 6 insertions(+), 1 deletion(-)
create mode 100644 mydir/text.txt
create mode 100644 newfile.txt
```

```
$
```