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# 10 个迅速提升你 Git 水平的提示

英文原文: [10 Tips to Push Your Git Skills to the Next Level](#)

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Recently we published a couple of tutorials to get you familiar with [Git basics](#) and [using Git in a team environment](#). The commands that we discussed were about enough to help a developer survive in the Git world. In this post, we will try to explore how to manage your time effectively and make full use of the features that Git provides.

*Note: Some commands in this article include part of the command in square brackets (e.g. `git add -p [file_name]`). In those examples, you would insert the necessary number, identifier, etc. without the square brackets.*

## 1. Git Auto Completion

If you run Git commands through the command line, it's a tiresome task to type in the commands manually every single time. To help with this, you can enable auto completion of Git commands within a few minutes.

To get the script, run the following in a Unix system:

```
cd ~
curl https://raw.githubusercontent.com/git/git/master/contrib/completion/git-completion.bash
```

Next, add the following lines to your `~/.bash_profile` file:

```
if [ -f ~/.git-completion.bash ]; then
    . ~/.git-completion.bash
fi
```

Although I have mentioned this earlier, I can not stress it enough: If you want to use the features of Git fully, you should definitely shift to the command line interface!

## 2. Ignoring Files in Git

最近我们推出了两个教程: [熟悉Git的基本功能](#)和[让你在开发团队中熟练的使用Git](#). 我们所讨论的命令足够一个开发者在Git使用方面游刃有余。在这篇文章中, 我们试图探索怎样有效的管理你的时间和充分的使用Git提供的功能。

注: 本文中, 一些命令包含了方括号中的部分内容 (例如:`git add -p [file_name]`) .在这些示例中, 你将插入必要的数字、标示符等等, 如果没有方括号。

## 1. Git自动补全

假使你使用命令行工具运行Git命令, 那么每次手动输入各种命令是一件很令人厌烦的事情。为了解决这个问题, 你可以启用Git的自动补全功能, 完成这项工作仅需要几分钟。

为了得到这个脚本, 在Unix系统下运行以下命令:

```
cd ~
curl https://raw.githubusercontent.com/git/git/master/contrib/completion/git-completion.bash
```

然后, 添加下面几行到你的 `~/.bash_profile` 文件中:

```
if [ -f ~/.git-completion.bash ]; then
    . ~/.git-completion.bash
fi
```

尽管早些时候我们已经提到这个, 但是强调的不够充分。如果你想使用git的全部功能特性, 你绝对应该切换到命令行界面!

## 2. 在 Git 中忽略文件

Are you tired of compiled files (like `.pyc`) appearing in your Git repository? Or are you so fed up that you have added them to Git? Look no further, there is a way through which you can tell Git to ignore certain files and directories altogether. Simply create a file with the name `.gitignore` and list the files and directories that you don't want Git to track. You can make exceptions using the exclamation mark(!).

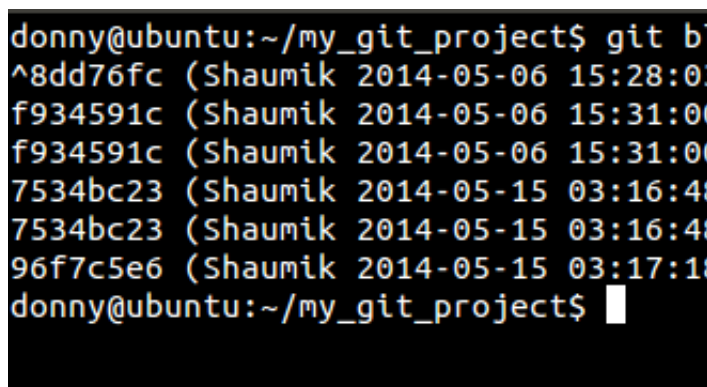
```
*.pyc
*.exe
my_db_config/
```

```
!main.pyc
```

### 3. Who Messed With My Code?

It's the natural instinct of human beings to blame others when something goes wrong. If your production server is broke, it's very easy to find out the culprit — just do a `git blame`. This command shows you the author of every line in a file, the commit that saw the last change in that line, and the timestamp of the commit.

```
git blame [file_name]
```



```
donny@ubuntu:~/my_git_project$ git blame main.pyc
^8dd76fc (Shaumik 2014-05-06 15:28:03)
f934591c (Shaumik 2014-05-06 15:31:00)
f934591c (Shaumik 2014-05-06 15:31:00)
f934591c (Shaumik 2014-05-06 15:31:00)
7534bc23 (Shaumik 2014-05-15 03:16:48)
7534bc23 (Shaumik 2014-05-15 03:16:48)
96f7c5e6 (Shaumik 2014-05-15 03:17:18)
donny@ubuntu:~/my_git_project$
```

And in the screenshot below, you can see how this command would look on a bigger repository:

你是不是很烦那些编译过的文件 (比如 `.pyc`) 出现在你的 Git 仓库中? 或者说你已经受够了已经把它们都加进了 Git 仓库? 好了, 这有个办法可以让你告诉 Git 忽略掉那些特定的文件和文件夹。只需要创建一个名为 `.gitignore` 然后列出那些你不希望 Git 跟踪的文件和文件夹。你还可以添加例外, 通过使用感叹号(!)。

```
*.pyc
*.exe
my_db_config/
```

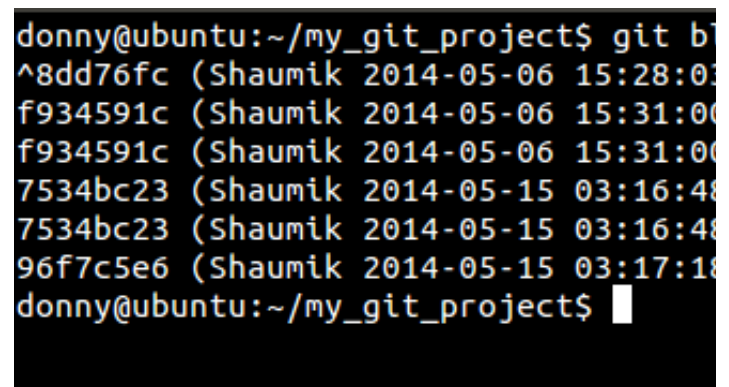
```
!main.pyc
```

译者信息 ▾

### 3. 是谁弄乱了我的代码?

当事情出错时, 先去指责别人是人类的天性之一。如果你的产品服务器挂了, 使用 `git blame` 命令可以很容易找出罪魁祸首。这个命令可以将文件中的每一行的作者、最新的变更提交和提交时间展示出来。

```
git blame [file_name]
```



```
donny@ubuntu:~/my_git_project$ git blame main.pyc
^8dd76fc (Shaumik 2014-05-06 15:28:03)
f934591c (Shaumik 2014-05-06 15:31:00)
f934591c (Shaumik 2014-05-06 15:31:00)
f934591c (Shaumik 2014-05-06 15:31:00)
7534bc23 (Shaumik 2014-05-15 03:16:48)
7534bc23 (Shaumik 2014-05-15 03:16:48)
96f7c5e6 (Shaumik 2014-05-15 03:17:18)
donny@ubuntu:~/my_git_project$
```

在下面的截图中你可以看到命令是如何在更大的目录中搜寻。

```

donny@ubuntu:~/ATutor$ git blame about.php
^d340b96 docs/about.php (greg gay      2003-11-26
6705855d docs/about.php (heidi valles  2004-02-13
6705855d docs/about.php (heidi valles  2004-02-13
6705855d docs/about.php (heidi valles  2004-02-13
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
6705855d docs/about.php (heidi valles  2004-02-13
9f6f0fe1 docs/about.php (joel kronenberg 2004-06-30
^d340b96 docs/about.php (greg gay      2003-11-26
ef69fb74 docs/about.php (joel kronenberg 2004-04-08
ef69fb74 docs/about.php (joel kronenberg 2004-04-08
d75b61df docs/about.php (joel kronenberg 2003-12-02
d75b61df docs/about.php (joel kronenberg 2003-12-02
aa80141b docs/about.php (heidi valles  2004-04-26
^d340b96 docs/about.php (greg gay      2003-11-26
^d340b96 docs/about.php (greg gay      2003-11-26
3ce225fb docs/about.php (alison benjamin 2011-05-05
3ce225fb docs/about.php (alison benjamin 2011-05-05
3ce225fb docs/about.php (alison benjamin 2011-05-05

```

```

donny@ubuntu:~/ATutor$ git blame about.php
^d340b96 docs/about.php (greg gay      2003-11-26
6705855d docs/about.php (heidi valles  2004-02-13
6705855d docs/about.php (heidi valles  2004-02-13
6705855d docs/about.php (heidi valles  2004-02-13
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
e5894c68 docs/about.php (cindy li     2010-06-29
6705855d docs/about.php (heidi valles  2004-02-13
9f6f0fe1 docs/about.php (joel kronenberg 2004-06-30
^d340b96 docs/about.php (greg gay      2003-11-26
ef69fb74 docs/about.php (joel kronenberg 2004-04-08
ef69fb74 docs/about.php (joel kronenberg 2004-04-08
d75b61df docs/about.php (joel kronenberg 2003-12-02
d75b61df docs/about.php (joel kronenberg 2003-12-02
aa80141b docs/about.php (heidi valles  2004-04-26
^d340b96 docs/about.php (greg gay      2003-11-26
^d340b96 docs/about.php (greg gay      2003-11-26
3ce225fb docs/about.php (alison benjamin 2011-05-05
3ce225fb docs/about.php (alison benjamin 2011-05-05
3ce225fb docs/about.php (alison benjamin 2011-05-05

```

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## 4. Review History of the Repository

We had a look at the use of `git log` in a previous tutorial, however, there are three options that you should know about.

- `--oneline` - Compresses the information shown beside each commit to a reduced commit hash and the commit message, all shown in a single line.
- `--graph` - This option draws a text-based graphical representation of the history on the left hand side of the output. It's of no use if you are viewing the history for a single branch.
- `--all` - Shows the history of all branches.

Here's what a combination of the options looks like:

## 4. 查看仓库历史记录

上一节我们已经学习了如何使用 `git log`，不过，这里还有三个你应该知道的选项。

- `--oneline`- 压缩模式，在每个提交的旁边显示经过精简的提交哈希码和提交信息，以一行显示。
- `--graph`- 图形模式，使用该选项会在输出的左边绘制一张基于文本格式的历史信息表示图。如果你查看的是单个分支的历史记录的话，该选项无效。
- `--all`- 显示所有分支的历史记录

把这些选项组合起来之后，输出看起来会像这样：

```
* a16fb46 API: Fixed misc bugs. Chang
* 9b9846e API: Condensed code
* 3548a5c API: Moved raise 401 code t
* 14e13a9 API: Added check whether to
* d512f8c API: Completed basic calls
* cf742ac Merge pull request #23 fr
| \
| * d4a792d API: Added CORS support
| * 5142bb4 API: Added functions to c
| * 327d861 API: Added structure to t
| * 7c2689d API: Added toro library a
| /
* d1e0c92 API Module- removed unneces
* 9c0bc1b Added API module
* 86f0e2b adjust import of backups an
* e9619a3 atutorspaces theme adjustme
* 0a1df8f replace hard coded module p
* b51a52b commented out DAO function
```

译者信息 ▾

## 5. Never Lose Track of a Commit

Let's say you committed something you didn't want to and ended up doing a hard reset to come back to your previous state. Later, you realize you lost some other information in the process and want to get it back, or at least view it. This is where `git reflog` can help.

A simple `git log` shows you the latest commit, its parent, its parent's parent, and so on. However, `git reflog` is a list of commits that the head was pointed to. Remember that it's local to your system; it's not a part of your repository and not included in pushes or merges.

If I run `git log`, I get the commits that are a part of my repository:

## 5. 绝对不要丢失对Commit的跟踪

假设你不小心提交了些你不想要的东西，不得不做一次强制重置来恢复到之前的状态。然后，你意识到在这一过程中你丢失了其它一些信息并且想要把它们找回来，或者至少瞅一眼。这正是`git reflog`可以做到的。

一个简单的`git log`命令可以为你展示最后一次commit，以及它的父亲，还有它父亲的父亲等等。而`git reflog`则列出了head曾经指向过的一系列commit。要明白它们只存在于你本机中；而不是你的版本仓库的一部分，也不包含在push和merge操作中。

如果我运行`git log`命令，我可以看到一些commit，它们都是我仓库的一部分：



```
commit aef08df984dc6fdd7be7af0221260
Author: Shaumik <sdaityari@gmail.com>
Date:   Wed Jun 11 21:37:29 2014 +0530

    API: Removed junk SQL, reusing c

commit a5170ca8d187c2d5a9466bdaee72a
Author: Shaumik <sdaityari@gmail.com>
Date:   Tue Jun 10 19:18:13 2014 +0530

    API: Added constants for success

commit fbebd8087fd89d14aaf16f126c78e
Author: Shaumik <sdaityari@gmail.com>
Date:   Mon Jun 9 18:53:40 2014 +0530

    API: Added PUT request to Course

commit 6260d29b70f8f627483f5421a7b10
Author: Shaumik <sdaityari@gmail.com>
Date:   Fri Jun 6 21:58:39 2014 +0530

    API: Modified code
    Moved print_success and print_err
    Removed addslashes from queryDB
```

However, a git reflog shows a commit (b1b0ee9 &#8211; HEAD@{4}) that was lost when I did a hard reset:

```
aef08df HEAD@{0}: commit: API: Remove
a5170ca HEAD@{1}: commit: API: Added
fbebd80 HEAD@{2}: commit: API: Added
6260d29 HEAD@{3}: reset: moving to HEAD
b1b0ee9 HEAD@{4}: commit: Blog update
6260d29 HEAD@{5}: commit: API: Modified
44da3b5 HEAD@{6}: commit: API: Added
0685d5e HEAD@{7}: commit: API: Added
3bf92f7 HEAD@{8}: commit: API: Added
f3b65d4 HEAD@{9}: commit: API: Create
705c392 HEAD@{10}: commit: API: Added
c4d88eb HEAD@{11}: commit: API: Separ
```

## 6. Staging Parts of a Changed File for a Commit

It is generally a good practice to make feature-based

```
commit aef08df984dc6fdd7be7af0221260
Author: Shaumik <sdaityari@gmail.com>
Date:   Wed Jun 11 21:37:29 2014 +0530

    API: Removed junk SQL, reusing c

commit a5170ca8d187c2d5a9466bdaee72a
Author: Shaumik <sdaityari@gmail.com>
Date:   Tue Jun 10 19:18:13 2014 +0530

    API: Added constants for success

commit fbebd8087fd89d14aaf16f126c78e
Author: Shaumik <sdaityari@gmail.com>
Date:   Mon Jun 9 18:53:40 2014 +0530

    API: Added PUT request to Course

commit 6260d29b70f8f627483f5421a7b10
Author: Shaumik <sdaityari@gmail.com>
Date:   Fri Jun 6 21:58:39 2014 +0530

    API: Modified code
    Moved print_success and print_err
    Removed addslashes from queryDB
```

然而，一个git reflog命令则展示了一次commit (b1b0ee9&#8211;HEAD@{4})，它正是我刚才进行强制重置时弄丢的：

```
aef08df HEAD@{0}: commit: API: Remove
a5170ca HEAD@{1}: commit: API: Added
fbebd80 HEAD@{2}: commit: API: Added
6260d29 HEAD@{3}: reset: moving to HEAD
b1b0ee9 HEAD@{4}: commit: Blog update
6260d29 HEAD@{5}: commit: API: Modified
44da3b5 HEAD@{6}: commit: API: Added
0685d5e HEAD@{7}: commit: API: Added
3bf92f7 HEAD@{8}: commit: API: Added
f3b65d4 HEAD@{9}: commit: API: Create
705c392 HEAD@{10}: commit: API: Added
c4d88eb HEAD@{11}: commit: API: Separ
```

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## 6. 暂存文件的部分改动

一般情况下，创建一个基于特性的提交是比较好的做法，意思是每次提交都必须代表一个新特性的产生或

commits, that is, each commit must represent a feature or a bug fix. Consider what would happen if you fixed two bugs, or added multiple features without committing the changes. In such a situation, you could put the changes in a single commit. But there is a better way: Stage the files individually and commit them separately.

Let's say you've made multiple changes to a single file and want them to appear in separate commits. In that case, we add files by prefixing `-p` to our add commands.

```
git add -p [file_name]
```

Let's try to demonstrate the same. I have added three new lines to `file_name` and I want only the first and third lines to appear in my commit. Let's see what a `git diff` shows us.

```
donny@ubuntu:~/my_git_project$ git diff --git a/my_file b/my_file
index 188a60b..af52883 100644
--- a/my_file
+++ b/my_file
@@ -1,6 +1,12 @@
 This is some information!

+Adding Line 1.
+
 I am changing the content of this file.

+Adding Line 2.
+
 This change is in the master branch.
 Another line in the master branch.
+
+Adding Line 3.
```

And let's see what happens when we prefix a `-p` to our add command.

者是一个bug的修复。如果你修复了两个bug，或是添加了多个新特性但是却没有提交这些变化会怎样呢？在这种情况下，你可以把这些变化放在一次提交中。但更好的方法是把文件暂存(Stage)然后分别提交。

例如你对一个文件进行了多次修改并且想把他们分别提交。这种情况下，你可以在 `add` 命令中加上 `-p` 参数

```
git add -p [file_name]
```

我们来演示一下在 `file_name` 文件中添加了3行文字，但只想提交第一行和第三行。先看一下 `git diff` 显示的结果：

```
donny@ubuntu:~/my_git_project$ git diff --git a/my_file b/my_file
index 188a60b..af52883 100644
--- a/my_file
+++ b/my_file
@@ -1,6 +1,12 @@
 This is some information!

+Adding Line 1.
+
 I am changing the content of this file.

+Adding Line 2.
+
 This change is in the master branch.
 Another line in the master branch.
+
+Adding Line 3.
```

然后再看看在 `add` 命令中添加 `-p` 参数是怎样的？

```

donny@ubuntu:~/my_git_project$ git add
diff --git a/my_file b/my_file
index 188a60b..af52883 100644
--- a/my_file
+++ b/my_file
@@ -1,6 +1,12 @@
 This is some information!

+Adding Line 1.
+
 I am changing the content of this file.

+Adding Line 2.
+
 This change is in the master branch.
 Another line in the master branch.
+
+Adding Line 3.
Stage this hunk [y,n,q,a,d,/,s,e,]?

```

It seems that Git assumed that all the changes were a part of the same idea, thereby grouping it into a single hunk. You have the following options:

- Enter y to stage that hunk
- Enter n to not stage that hunk
- Enter e to manually edit the hunk
- Enter d to exit or go to the next file.
- Enter s to split the hunk.

In our case, we definitely want to split it into smaller parts to selectively add some and ignore the rest.

```

donny@ubuntu:~/my_git_project$ git add
diff --git a/my_file b/my_file
index 188a60b..af52883 100644
--- a/my_file
+++ b/my_file
@@ -1,6 +1,12 @@
 This is some information!

+Adding Line 1.
+
 I am changing the content of this file.

+Adding Line 2.
+
 This change is in the master branch.
 Another line in the master branch.
+
+Adding Line 3.
Stage this hunk [y,n,q,a,d,/,s,e,]?

```

看上去，Git 假定所有的改变都是针对同一件事情的，因此它把这些都放在了一个块里。你有如下几个选项：

- 输入 y 来暂存该块
- 输入 n 不暂存
- 输入 e 手工编辑该块
- 输入 d 退出或者转到下一个文件
- 输入 s 来分割该块

在我们这个例子中，最终是希望分割成更小的部分，然后有选择的添加或者忽略其中一部分。



```

Stage this hunk [y,n,q,a,d,/,s,e,?]?
Split into 3 hunks.
@@ -1,4 +1,6 @@
    This is some information!

+Adding Line 1.
+
    I am changing the content of this f
Stage this hunk [y,n,q,a,d,/,j,J,g,e
@@ -3,4 +5,6 @@
    I am changing the content of this f

+Adding Line 2.
+
    This change is in the master branch
    Another line in the master branch.
Stage this hunk [y,n,q,a,d,/,K,j,J,g
@@ -5,2 +9,4 @@
    This change is in the master branch
    Another line in the master branch.
+
+Adding Line 3.
Stage this hunk [y,n,q,a,d,/,K,g,e,?]

```

As you can see, we have added the first and third lines and ignored the second. You can then view the status of the repository and make a commit.

```

donny@ubuntu:~/my_git_project$ git st
# On branch master
# Your branch is ahead of 'origin/mas
#   (use "git push" to publish your
#
# Changes to be committed:
#   (use "git reset HEAD <file>..."
#
#       modified:   my_file
#
# Changes not staged for commit:
#   (use "git add <file>..." to updat
#   (use "git checkout -- <file>..."
#
#       modified:   my_file
#

```

## 7. Squash Multiple Commits

When you submit your code for review and create a pull

```

Stage this hunk [y,n,q,a,d,/,s,e,?]?
Split into 3 hunks.
@@ -1,4 +1,6 @@
    This is some information!

+Adding Line 1.
+
    I am changing the content of this f
Stage this hunk [y,n,q,a,d,/,j,J,g,e
@@ -3,4 +5,6 @@
    I am changing the content of this f

+Adding Line 2.
+
    This change is in the master branch
    Another line in the master branch.
Stage this hunk [y,n,q,a,d,/,K,j,J,g
@@ -5,2 +9,4 @@
    This change is in the master branch
    Another line in the master branch.
+
+Adding Line 3.
Stage this hunk [y,n,q,a,d,/,K,g,e,?]

```

正如你所看到的，我们添加了第一行和第三行而忽略了第二行。之后你可以查看仓库状态之后并进行提交。

```

donny@ubuntu:~/my_git_project$ git st
# On branch master
# Your branch is ahead of 'origin/mas
#   (use "git push" to publish your
#
# Changes to be committed:
#   (use "git reset HEAD <file>..."
#
#       modified:   my_file
#
# Changes not staged for commit:
#   (use "git add <file>..." to updat
#   (use "git checkout -- <file>..."
#
#       modified:   my_file
#

```

## 7. 压缩多个Commit

当你提交代码进行代码审查时或者创建一次pull

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request (which happens often in open source projects), you might be asked to make a change to your code before it's accepted. You make the change, only to be asked to change it yet again in the next review. Before you know it, you have a few extra commits. Ideally, you could squash them into one using the `rebase` command.

```
git rebase -i HEAD~[number_of_commits]
```

If you want to squash the last two commits, the command that you run is the following.

```
git rebase -i HEAD~2
```

On running this command, you are taken to an interactive interface listing the commits and asking you which ones to squash. Ideally, you pick the latest commit and squash the old ones.

```
GNU nano 2.2.6
pick 6af2e3c Added lines 1 and 3 using
squash 14dce8f Added line 2 that was
# Rebase 96f7c5e..14dce8f onto 96f7c5e
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the
# e, edit = use commit, but stop for
# s, squash = use commit, but meld the
# f, fixup = like "squash", but discard
# x, exec = run command (the rest of
#
# These lines can be re-ordered; they
#
# If you remove a line here THAT COMMIT
#
# However, if you remove everything,
#
# Note that empty commits are commented
```

You are then asked to provide a commit message to the new commit. This process essentially re-writes your commit history.

request (这在开源项目中经常发生), 你的代码在被接受之前会被要求做一些变更。于是你进行了变更, 并且直到下一次审查之前你没有再次被要求进行变更。在你知道又要进行变更之前, 你已经有了一些额外的commit。理想情况下, 你可以用rebase命令把多个commit压缩成一个。

```
git rebase -i HEAD~[number_of_commits]
```

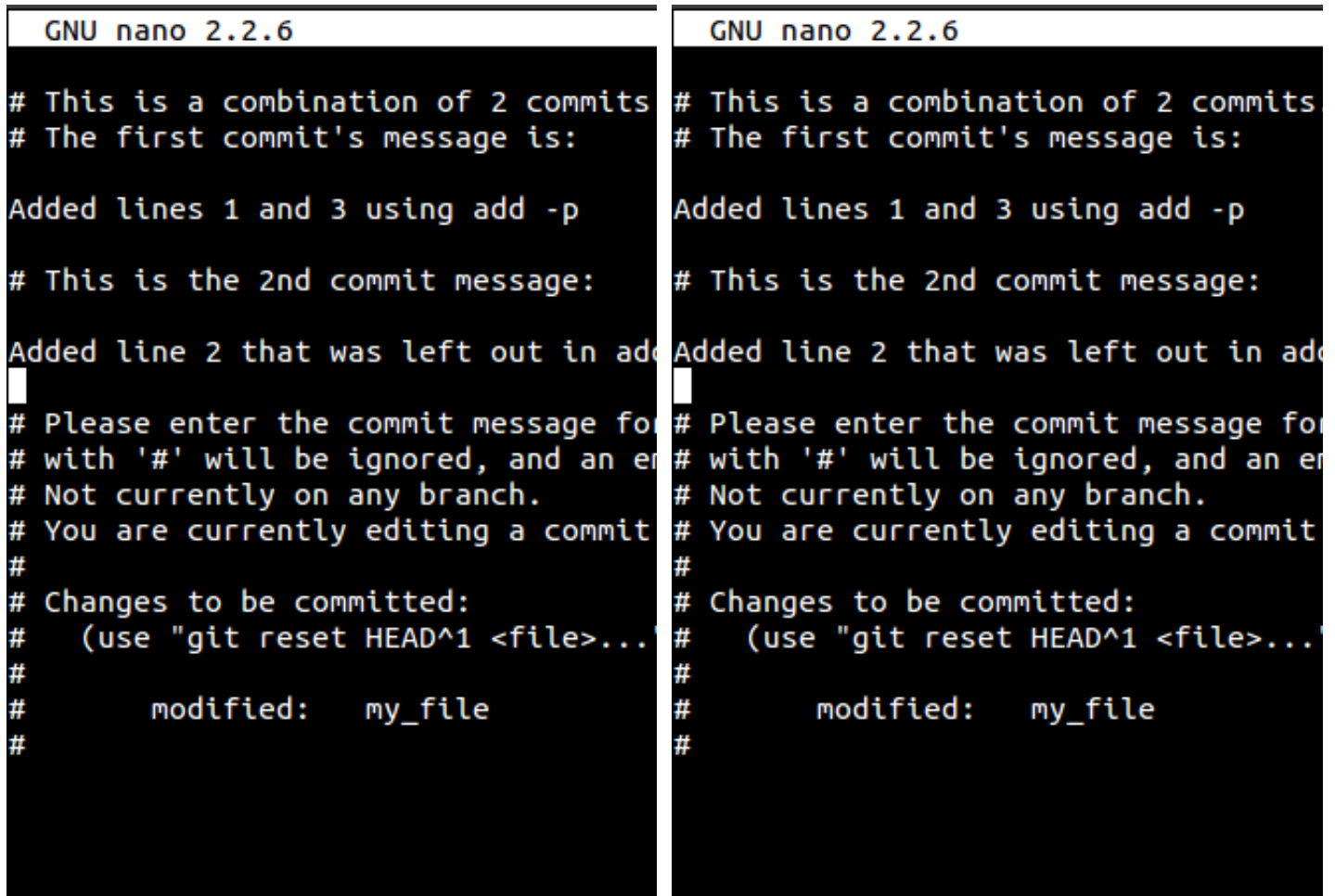
如果你想要压缩最后两个commit, 你需要运行下列命令。

```
git rebase -i HEAD~2
```

运行该命令时, 你会看到一个交互界面, 列出了许多commit让你选择哪些需要进行压缩。理想情况下, 你选择最后一次commit并把其它老commit都进行压缩。

```
GNU nano 2.2.6
pick 6af2e3c Added lines 1 and 3 using
squash 14dce8f Added line 2 that was
# Rebase 96f7c5e..14dce8f onto 96f7c5e
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the
# e, edit = use commit, but stop for
# s, squash = use commit, but meld the
# f, fixup = like "squash", but discard
# x, exec = run command (the rest of
#
# These lines can be re-ordered; they
#
# If you remove a line here THAT COMMIT
#
# However, if you remove everything,
#
# Note that empty commits are commented
```

然后会要求你为新的commit录入提交信息。这一过程本质上重写了你的commit历史。



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## 8. Stash Uncommitted Changes

Let's say you are working on a certain bug or a feature, and you are suddenly asked to demonstrate your work. Your current work is not complete enough to be committed, and you can't give a demonstration at this stage (without reverting the changes). In such a situation, `git stash` comes to the rescue. Stash essentially takes all your changes and stores them for further use. To stash your changes, you simply run the following-

```
git stash
```

To check the list of stashes, you can run the following:

```
git stash list
```

```
donny@ubuntu:~/my_git_project$ git stash list
stash@{0}: WIP on master: cc48fb3 Add
```

If you want to un-stash and recover the uncommitted changes, you apply the stash:

## 8. Stash未提交的更改

你正在修改某个bug或者某个特性，又突然被要求展示你的工作。而你现在所做的工作还不足以提交，这个阶段你还无法进行展示（不能回到更改之前）。在这种情况下，`git stash`可以帮助你。`stash`在本质上会取走所有的变更并存储它们为以备将来使用。`stash`你的变更，你只需简单地运行下面的命令-

```
git stash
```

希望检查`stash`列表，你可以运行下面的命令：

```
git stash list
```

```
donny@ubuntu:~/my_git_project$ git stash list
stash@{0}: WIP on master: cc48fb3 Add
```

如果你想要解除`stash`并且恢复未提交的变更，你可以进行`apply stash`：



## git stash apply

In the last screenshot, you can see that each stash has an identifier, a unique number (although we have only one stash in this case). In case you want to apply only selective stashes, you add the specific identifier to the apply command:

```
git stash apply stash@{2}
```

```
donny@ubuntu:~/my_git_project$ git st
stash@{0}: WIP on master: cc48fb3 Add
donny@ubuntu:~/my_git_project$ git st
# On branch master
# Your branch is ahead of 'origin/mas
#   (use "git push" to publish your
#
# Changes not staged for commit:
#   (use "git add <file>..." to updat
#   (use "git checkout -- <file>..."
#
#       modified:   my_file
#
no changes added to commit (use "git
donny@ubuntu:~/my_git_project$
```

## git stash apply

在屏幕截图中，你可以看到每个stash都有一个标识符，一个唯一的号码（尽管在这种情况下我们只有一个stash）。如果你只想留有余地进行apply stash，你应该给apply添加特定的标识符：

```
git stash apply stash@{2}
```

```
donny@ubuntu:~/my_git_project$ git st
stash@{0}: WIP on master: cc48fb3 Add
donny@ubuntu:~/my_git_project$ git st
# On branch master
# Your branch is ahead of 'origin/mas
#   (use "git push" to publish your
#
# Changes not staged for commit:
#   (use "git add <file>..." to updat
#   (use "git checkout -- <file>..."
#
#       modified:   my_file
#
no changes added to commit (use "git
donny@ubuntu:~/my_git_project$
```

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## 9. Check for Lost Commits

Although `reflog` is one way of checking for lost commits, it's not feasible in large repositories. That is when the `fsck` (file system check) command comes into play.

```
git fsck --lost-found
```

```
donny@ubuntu:~/my_git_project$ git fs
Checking object directories: 100% (25
dangling blob 0a59de68065639cbaf71fc4
dangling commit 14dce8f337c9e77763204
dangling commit 2203243d43053c0959e60
dangling blob ae4c7d9e933caf5a123f29a
dangling tree bddb833e2599da64b18aa08
dangling commit 5ef655a4caf806f5b1829
dangling tree f21cc2ab743ea1254ffa7ea
dangling blob 7d367b0f140005aa8855e00
donny@ubuntu:~/my_git_project$
```

Here you can see a lost commit. You can check the changes in the commit by running `git show [commit_hash]` or

## 9.检查丢失的提交

尽管 `reflog` 是唯一检查丢失提交的方式。但它不是适用于大型的仓库。那就是 `fsck`（文件系统检测）命令登场的时候了。

```
git fsck --lost-found
```

```
donny@ubuntu:~/my_git_project$ git fs
Checking object directories: 100% (25
dangling blob 0a59de68065639cbaf71fc4
dangling commit 14dce8f337c9e77763204
dangling commit 2203243d43053c0959e60
dangling blob ae4c7d9e933caf5a123f29a
dangling tree bddb833e2599da64b18aa08
dangling commit 5ef655a4caf806f5b1829
dangling tree f21cc2ab743ea1254ffa7ea
dangling blob 7d367b0f140005aa8855e00
donny@ubuntu:~/my_git_project$
```

这里你可以看到丢掉的提交。你可以通过运行 `git`

recover it by running `git merge [commit_hash]`.

`git fsck` has an advantage over `reflog`. Let's say you deleted a remote branch and then cloned the repository. With `fsck` you can search for and recover the deleted remote branch.

`show [commit_hash]` 查看提交之后的改变或者运行 `git merge [commit_hash]` 来恢复到之前的提交。

`git fsck` 相对`reflog`是有优势的。比方说你删除一个远程的分支然后关闭仓库。用`fsck` 你可以搜索和恢复已删除的远程分支。

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