

# 20 個最常用的Git 命令，你都會用嗎？

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在這篇文章中，我將介紹在使用Git 時最常使用的20 個命令。



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以下為譯文：

以下是這些Git命令：

git config

git initgit clone

git add

git commit

git diff

git reset

git status

git rm

git log

git show

git tag

git branch

git checkout

git merge

git remote

git push

git pull

git stash

下面讓我們逐一介紹。

## Git 命令

git config

用法：git config --global user.name "[name]"

用法：git config --global user.email "[email address]"

該命令將分別設置提交代碼的用戶名和電子郵件地址。

## git init

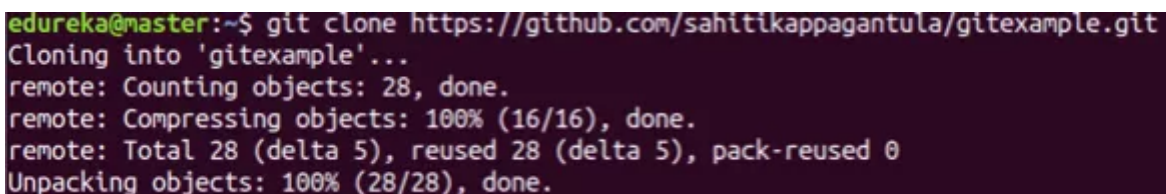
用法：git init [repository name]

該命令可用於創建一個新的代碼庫。

## git clone

用法：git clone [url]

該命令可用於通過指定的URL獲取一個代碼庫。



```
edureka@master:~$ git clone https://github.com/sahitikappagantula/gitexample.git
Cloning into 'gitexample'...
remote: Counting objects: 28, done.
remote: Compressing objects: 100% (16/16), done.
remote: Total 28 (delta 5), reused 28 (delta 5), pack-reused 0
Unpacking objects: 100% (28/28), done.
```

## git add

用法：git add [file]

該命令可以將一個文件添加至stage(暫存區)。

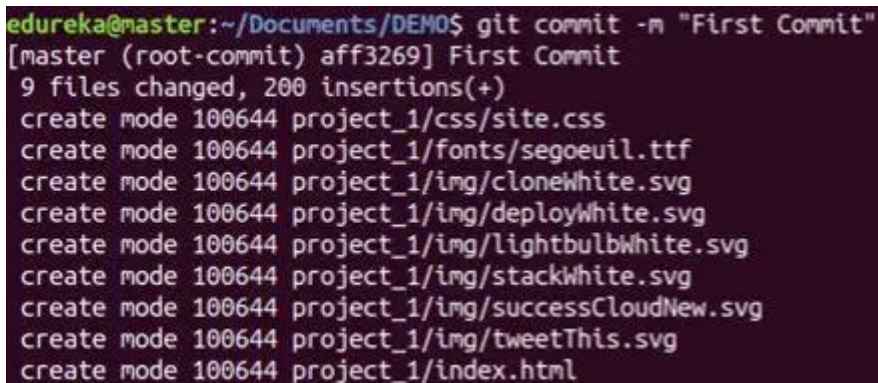
用法：git add \*

該命令可以將多個文件添加至stage(暫存區)。

## git commit

用法：git commit -m "[ Type in the commit message]"

該命令可以在版本歷史記錄中永久記錄文件。



```
edureka@master:~/Documents/DEMO$ git commit -m "First Commit"
[master (root-commit) aff3269] First Commit
 9 files changed, 200 insertions(+)
 create mode 100644 project_1/css/site.css
 create mode 100644 project_1/fonts/segoeui.ttf
 create mode 100644 project_1/img/cloneWhite.svg
 create mode 100644 project_1/img/deployWhite.svg
 create mode 100644 project_1/img/lightbulbWhite.svg
 create mode 100644 project_1/img/stackWhite.svg
 create mode 100644 project_1/img/successCloudNew.svg
 create mode 100644 project_1/img/tweetThis.svg
 create mode 100644 project_1/index.html
```

用法：git commit -a

該命令將提交git add命令添加的所有文件，並提交git add命令之後更改的所有文件。

## git diff

用法：git diff

該命令可以顯示尚未添加到stage的文件的變更。

```
edureka@master:~/Documents/DEMOS$ git diff
diff --git a/project_1/index.html b/project_1/index.html
index 8a985d9..94cfa0f 100644
--- a/project_1/index.html
+++ b/project_1/index.html
@@ -20,8 +20,8 @@
     </div>
     <div class="content-body">
       <div class="success-text">Success!</div>
-       <div class="description line-1"> AWS DevOps Project has been successfully setup</div>
-       <div class="description line-2"> Your HTML app is up and running on AWS</div>
+       <div class="description line-1"> Azure DevOps Project has been successfully setup</div>
+       <div class="description line-2"> Your HTML app is up and running on Azure</div>
       <div class="next-steps-container">
         <div class="next-steps-header">Next up</div>
         <div class="next-steps-body">
```

用法：git diff --staged

该命令可以显示添加到stage的文件与当前最新版本之间的差异。

```
edureka@master:~/Documents/DEMO/project_1/css$ git diff --staged
diff --git a/project_1/css/site.css b/project_1/css/site.css
index 25606b6..fba307d 100644
--- a/project_1/css/site.css
+++ b/project_1/css/site.css
@@ -1,5 +1,5 @@
  html,
- /* This the css file for the web page */
+ /* This the css file for the web page we are using for our DEMO */
  body {
    height: 100%;
    width: 100%;
```

用法：git diff [first branch] [second branch]

该命令可以显示两个分支之间的差异。

```
edureka@master:~/Documents/DEMO/project_1$ git diff branch_2 branch_3
diff --git a/project_1/index.html b/project_1/index.html
index b567d94..94cfa0f 100644
--- a/project_1/index.html
+++ b/project_1/index.html
@@ -47,7 +47,7 @@
     <div class="step-icon">
       
     </div>
-     <div class="step-text"><a href="https://go.microsoft.com/fwlink/?linkid=862126">Learn more about a
+     <div class="step-text"><a href="https://go.microsoft.com/fwlink/?linkid=862126">Learn more about a
ll you can do with AWS & Google Cloud Platform projects by visiting the documentation</a></div>
+     <div class="step-text"><a href="https://go.microsoft.com/fwlink/?linkid=862126">Learn more about a
ll you can do with AWS & GCP projects by visiting the documentation</a></div>
     </div>
  </div>
```

## git reset

用法：git reset [file]

该命令将从stage中撤出指定的文件，但可以保留文件的内容。

```
edureka@master:~/Documents/DEMO/project_1/css$ git reset site.css
Unstaged changes after reset:
M    project_1/css/site.css
M    project_1/index.html
```

用法: `git reset [commit]`

该命令可以撤销指定提交之后的所有提交，并在本地保留变更。

用法: `git reset --hard [commit]`

该命令将丢弃所有的历史记录，并回滚到指定的提交。

## git status

用法: `git status`

该命令将显示所有需要提交的文件。

```
edureka@master:~/Documents/DEMO$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   project_1/css/site.css
        modified:   project_1/index.html

no changes added to commit (use "git add" and/or "git commit -a")
```

## git rm

用法: `git rm [file]`

该命令将删除工作目录中的文件，并将删除动作添加到stage。

## git log

用法: `git log`

该命令可用于显示当前分支的版本历史记录。

```
edureka@master:~/Documents/DEMO$ git log
commit 09bb8e3f996eaf9a68ac5ba8d8b8fceb0e8641e7 (HEAD -> master)
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:25:17 2018 +0530

    Changes made in HTML and CSS file

commit b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:13:29 2018 +0530

    CHanges made in HTML file

commit aff3269a856ed251bdfd7ef87acb1716a2a9527a
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:07:28 2018 +0530

    First Commit
```

用法：git log -follow[file]

该命令可用于显示某个文件的版本历史记录，包括文件的重命名。

```
edureka@master:~/Documents/DEMO$ git log --follow project_1
commit 2b4c50431c127a0ae9ede4aace0b8dd1f9fcf2c5
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:50:08 2018 +0530

    New file added

commit 09bb8e3f996eaf9a68ac5ba8d8b8fceb0e8641e7
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:25:17 2018 +0530

    Changes made in HTML and CSS file

commit b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:13:29 2018 +0530

    CHanges made in HTML file

commit aff3269a856ed251bdfd7ef87acb1716a2a9527a
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:07:28 2018 +0530

    First Commit
```

## git show

用法：git show [commit]

该命令经显示指定提交的元数据以及内容变更。



```
edureka@master:~/Documents/DEMO$ git show b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
commit b01557d80d5f53dcf0ebdde4d3f8b0d20d8b8c16
Author: sahitikappagantula <sahiti.kappagantula@edureka.co>
Date:   Fri Jul 20 12:13:29 2018 +0530

    CHanges made in HTML file

diff --git a/project_1/index.html b/project_1/index.html
index 8a985d9..94cfa0f 100644
--- a/project_1/index.html
+++ b/project_1/index.html
@@ -20,8 +20,8 @@
     </div>
     <div class="content-body">
       <div class="success-text">Success!</div>
-      <div class="description line-1"> AWS DevOps Project has been successfully setup</div>
-      <div class="description line-2"> Your HTML app is up and running on AWS</div>
+      <div class="description line-1"> Azure DevOps Project has been successfully setup</div>
+      <div class="description line-2"> Your HTML app is up and running on Azure</div>
       <div class="next-steps-container">
         <div class="next-steps-header">Next up</div>
         <div class="next-steps-body">
```

## git tag

用法：git tag [commitID]

该命令可以给指定的提交添加标签。

## git branch

用法：git branch

该命令将显示当前代码库中所有的本地分支。

用法：git branch [branch name]

该命令将创建一个分支。

用法：git branch -d [branch name]

该命令将删除指定的分支。

## git checkout

用法：git checkout [branch name]

你可以通过该命令切换分支。

用法：git checkout -b [branch name]

你可以通过该命令创建一个分支，并切换到新分支上。

## git merge

用法：git merge [branch name]

该命令可以将指定分支的历史记录合并到当前分支。

## git remote

用法：git remote add [variable name] [Remote Server Link]

你可以通过该命令将本地的代码库连接到远程服务器。

## git push

用法：git push [variable name] master

该命令可以将主分支上提交的变更发送到远程代码库。

```
edureka@master:~/Documents/DEMO$ git push origin master
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Counting objects: 42, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (32/32), done.
Writing objects: 100% (42/42), 463.10 KiB | 3.62 MiB/s, done.
Total 42 (delta 9), reused 0 (delta 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/sahitikappagantula/GitDemo.git
 * [new branch]      master -> master
```

用法：git push [variable name] [branch]

该命令可以将指定分支上的提交发送到远程代码库。

```
edureka@master:~/Documents/DEMO$ git push origin master
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Counting objects: 42, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (32/32), done.
Writing objects: 100% (42/42), 463.10 KiB | 3.62 MiB/s, done.
Total 42 (delta 9), reused 0 (delta 0)
remote: Resolving deltas: 100% (9/9), done.
To https://github.com/sahitikappagantula/GitDemo.git
 * [new branch]      master -> master
```



用法：git push --all [variable name]

该命令可以将所有分支发送到远程代码库。

```
edureka@master:~/Documents/DEMO$ git push --all origin
Username for 'https://github.com': sahitikappagantula
Password for 'https://sahitikappagantula@github.com':
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/sahitikappagantula/GitDemo.git
 * [new branch]      branch_3 -> branch_3
 * [new branch]      branch_4 -> branch_4
```

用法：git push [variable name] :[branch name]

该命令可以删除远程代码库上的一个分支。

## git pull

用法：git pull [Repository Link]

该命令将获取远程服务器上的变更，并合并到你的工作目录。

```
edureka@master:~/Documents/DEMO$ git pull https://github.com/sahitikappagantula/gitlearn.git
warning: no common commits
remote: Counting objects: 13, done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 13 (delta 1), reused 10 (delta 1), pack-reused 0
Unpacking objects: 100% (13/13), done.
From https://github.com/sahitikappagantula/gitlearn
 * branch      HEAD      -> FETCH_HEAD
fatal: refusing to merge unrelated histories
```

## git stash

用法：git stash save

该命令将临时保存所有修改的文件。

用法：git stash pop

该命令将恢复最近一次stash（储藏）的文件。

```
edureka@master:~/Documents/DEMO/project_1$ git stash pop
On branch branch_2
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (365fa2ef6ed4f1f8d7d406bd0abb205279aad0c5)
```

用法：git stash list

该命令将显示stash的所有变更。

用法：git stash drop

该命令将丢弃最近一次stash的变更。

原文：<https://dzone.com/articles/top-20-git-commands-with-examples>

---END---

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