



Github

Jerry



GitHub

GitHub [編輯]

GitHub是一個**共享虛擬主機服務**，用於存放使用**Git**版本控制的軟體代碼和內容專案。它由GitHub公司（曾稱Logical Awesome）的開發者Chris Wanstrath、PJ Hyett和Tom Preston-Werner使用**Ruby on Rails**編寫而成。

GitHub 同時提供付費帳戶和免費帳戶。這兩種帳戶都可以建立公開的代碼倉庫，但是付費帳戶也可以建立私有的代碼倉庫。根據在2009年的Git使用者調查，GitHub是最流行的Git存取站點。^[2]除了允許個人和組織建立和存取代碼庫以外，它也提供了一些方便社會化軟體開發的功能，包括允許使用者跟蹤其他使用者、組織、軟體庫的動態，對軟體代碼的改動和 **bug** 提出評論等。GitHub也提供了圖表功能，用於顯示開發者們怎樣在代碼庫上工作以及軟體的開發活躍程度。

截止到 2015 年，GitHub 已經有超過九百萬註冊使用者和 2110 萬代碼倉庫。^[3]事實上已經成為了世界上最大的代碼存放網站。^[4]

GitHub

GitHub

公司類型

私人

創始人

Tom Preston-Werner
Chris Wanstrath
PJ Hyett

執行長

Chris Wanstrath

總部地點

美國加利福尼亞州**舊金山**

產業

軟體

所有者

GitHub, Inc.


網址

github.com 

Alexa排名

 世界 163 ▼ 16

 美國 149

 中國 304^[1]

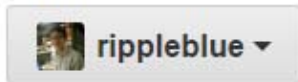
Set up

- `git config --global user.name "jerry"`
`git config --global user.email`
`"jerry@mail.ntust.edu.tw"`

EMPTY REPOSITORY

Empty repository

Owner



Repository name

/

Great repository names are short and memorable. Need inspiration? How about **sagacious-octo-weasel**.

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository



- 自行進資料夾新增檔案(windows)

...or create a new repository on the command line

```
echo # gitpython1 >> README.md  
git init  
git add README.md  
git commit -m "first commit"  
git remote add origin https://github.com/rippleblue/gitpython1.git  
git push -u origin master
```

空的必須加

成功畫面



rippleblue / gitpython1

Unwatch 1

Star 0

Fork 0

Description

Short description of this repository

Website

Website for this repository (optional)

Save or Cancel

1 commit

1 branch

0 releases

1 contributor



Branch: master

gitpython1 / +



first commit



rippleblue authored 4 minutes ago

latest commit 215088d101

README.md

first commit

4 minutes ago

README.md

Hello World

<> Code

Issues 0

Pull requests 0

Wiki

Pulse

Graphs

Settings

HTTPS clone URL

https://github.com/



You can clone with HTTPS, SSH,

NON-EMPTY REPOSITORY
(第一天結束)

 rippleblue ▾



You've been added to the **codefortomorrow** organization!

Here are some quick tips for a first-time organization member.

- Use the switch context button in the upper left corner of this page to switch between your personal context (**rippleblue**) and organizations you are a member of.
- After you switch contexts you'll see an organization-focused dashboard that lists out organization repositories and activities.

 defunkt ▾





Easier feeds for GitHub Pages

If you publish a blog using GitHub pages, it's now easier for others to subscribe to updates with the Jekyll feed plugin.

[View 76 new broadcasts](#)

Repositories you contribute to

- | | |
|--|-----|
|  dspim/A1-basic-data-analysis | 0 ★ |
|  dspim2/dspim2.github.io | 0 ★ |

Your repositories 22

[+ New repository](#)

Find a repository...

Owner

Repository name



rippleblue ▾

/

git



Great repository names are short and memorable. Need inspiration? How about **bilious-octo-tanuki**.

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository



Branch: **master** ▾

gitpython / +



Initial commit



rippleblue authored just now

latest commit 7097629b9b

[README.md](#)

Initial commit

just now

README.md

gitpython

Pull requests **0**

Wiki

Pulse

Graphs

Settings

HTTPS clone URL

<https://github.com/>



You can clone with [HTTPS](#), [SSH](#), or [Subversion](#). ⓘ

Clone in Desktop

Download ZIP

Non-empty Repository

- git clone
<https://github.com/rippleblue/pythontest2.git>
- cd gitpython
- 自行新增檔案至資料夾
- git add .
- git commit -m "11.txt"
- git push origin master
- git log

Non-empty Repository

- 再新增檔案至資料夾
- `git add .`
- `git commit -m "new commit"`
- `git push`

新檔案上傳

- 再新增檔案至資料夾
- `git add .`
- `git commit -m "new commit"`
- `git push`

```
[master +1 ~0 -0 !]> git add .  
[master +1 ~0 -0]> git add.
```

```
[master +1 ~0 -0  
[master +2 ~0 -0]
```

DELETE FILES

Error ?

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a---	2015/9/26 下午 10:35	5	README.md

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master +0 ~0 -1]> git add .
```

```
Warning: You ran 'git add' with neither '-A (--all)' or '--ignore-removal',
whose behaviour will change in Git 2.0 with respect to paths you removed.
Paths like '1.txt' that are
removed from your working tree are ignored with this version of Git.
```

```
* 'git add --ignore-removal <paths-spec>', which is the current default,
ignores paths you removed from your working tree.
```

```
* 'git add --all <paths-spec>' will let you also record the removals.
```

```
Run 'git status' to check the paths you removed from your working tree.
```

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master +0 ~0 -1]> git commit -m "Delete 1.txt"
```

```
On branch master
```

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

```
Changes not staged for commit:
  deleted:    1.txt
```

```
no changes added to commit
```


Delete files

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master +0 ~0 -1]> git add --all
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master +0 ~0 -1]> git commit -m "Delete 1.txt"
[master 5f5b362] Delete 1.txt
1 file changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 1.txt
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git push
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (1/1), done.
Writing objects: 100% (2/2), 232 bytes | 0 bytes/s, done.
Total 2 (delta 0), reused 0 (delta 0)
To https://github.com/rippleblue/Rtest.git
383b2d8..5f5b362 master -> master
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]>
```

REPOSITORY MERGE

- 新增github 與 工作目錄
 - gitpython_empty
 - 照舊再做一次

- git remote add origin https://github.com/rippleblue/gitpython_empty.git
- git add .
- git branch new1
- git branch
- git checkout new1

- 新增任檔案
- `git add .`
- `git commit -m "new1 branch"`
- `git push`
- `git push origin new1`

- git checkout master
- git merge new1
- git push

Github

The screenshot shows the GitHub interface for a repository named 'gitpython_empty'. A modal window titled 'Switch branches/tags' is open, displaying a search bar 'Find or create a branch...' and a list of branches: 'master' (checked) and 'new1'. The repository page shows the 'master' branch selected, with the latest commit 'db07d6b4dc' listed. The commit history table shows three commits: 'latest commit db07d6b4dc' (10 minutes ago), '40 minutes ago', and '16 minutes ago'. On the right sidebar, there are links for 'Pull requests', 'Wiki', 'Pulse', 'Graphs', and 'Settings'. At the bottom, there is a section for the 'HTTPS clone URL' (https://github.com/...) and a button to 'Clone in Desktop'.

Branch: master **gitpython_empty** / +

Switch branches/tags

Find or create a branch...

Branches Tags

✓ master

new1

new1

latest commit db07d6b4dc

10 minutes ago

40 minutes ago

16 minutes ago

Help people interested in this repository understand your project by adding a README. [Add a README](#)

Pull requests 0

Wiki

Pulse

Graphs

Settings

HTTPS clone URL

https://github.com/1

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop



Branch: **new1** ▾

gitpython_empty / +



This branch is 2 commits ahead, 1 commit behind master.

Pull request Compare

new file2



rippleblue authored 3 minutes ago

latest commit d2dfa94773

111.txt	next new file	10 minutes ago
2222.txt	new file	7 minutes ago
eee.txt	new file2	3 minutes ago
new111.txt	first commit	41 minutes ago
new222.txt	new1 branch	16 minutes ago

Help people interested in this repository understand your project by adding a README.

[Add a README](#)

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).



base: **master** ▾

...

compare: **new1** ▾

✓ **Able to merge.** These branches can be automatically merged.



Create pull request

Discuss and review the changes in this comparison with others.



🔗 **2** commits

📄 **2** files changed

💬 **0** commit comments

👤 **1** contributor



Commits on Sep 19, 2015



rippleblue

new file

074cd64



rippleblue

new file2

d2dfa94



Showing **2** changed files with **0** additions and **0** deletions.

Unified

Split






New1 new file1

Write

Preview

 Markdown supported

Leave a comment

Attach images by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Create pull request



rippleblue commented just now

Owner



No description provided.



rippleblue added some commits 8 minutes ago



new file

074cd64



new file2

d2dfa94

Add more commits by pushing to the **new1** branch on **rippleblue/gitpython_empty**.



This branch is up-to-date 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](#).

BRANCH

Create and delete branches

- Create

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git branch
* master
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git branch v1
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git branch
* master
  v1
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]>
```

- Delete

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git branch -d v1
Deleted branch v1 (was 5f5b362).
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git branch
* master
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]>
```

- `git branch -D new-branch` # 強制刪除 new-branch

Switching branches

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git branch v1
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git branch
* master
  v1
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git checkout v1
Switched to branch 'v1'
C:\Users\rippleblue2002\Documents\GitHub\Rtest [v1]> git branch
* master
  v1
C:\Users\rippleblue2002\Documents\GitHub\Rtest [v1]>
```

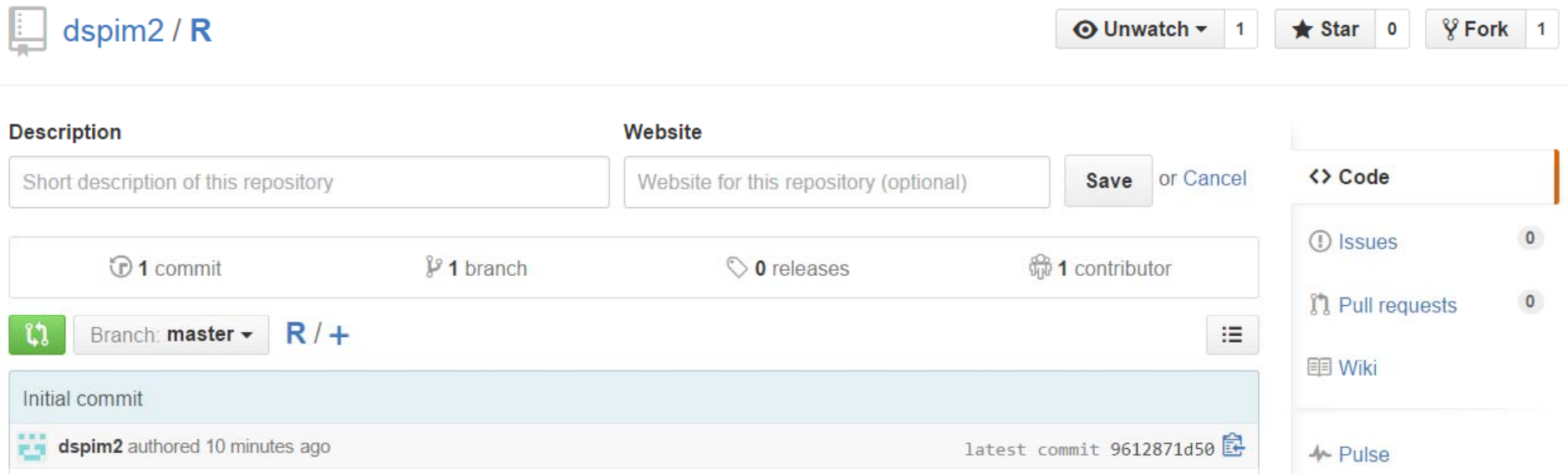
EXERCISE

Exercise

- Try to create non-empty and Empty repository
- Try to commit to repository
- Try to push files to repository
- Try to delete files from repository
- How to upload your files to teacher repository ?

How to upload your files to teacher repository ?

- 提交檔案到老師的Repository

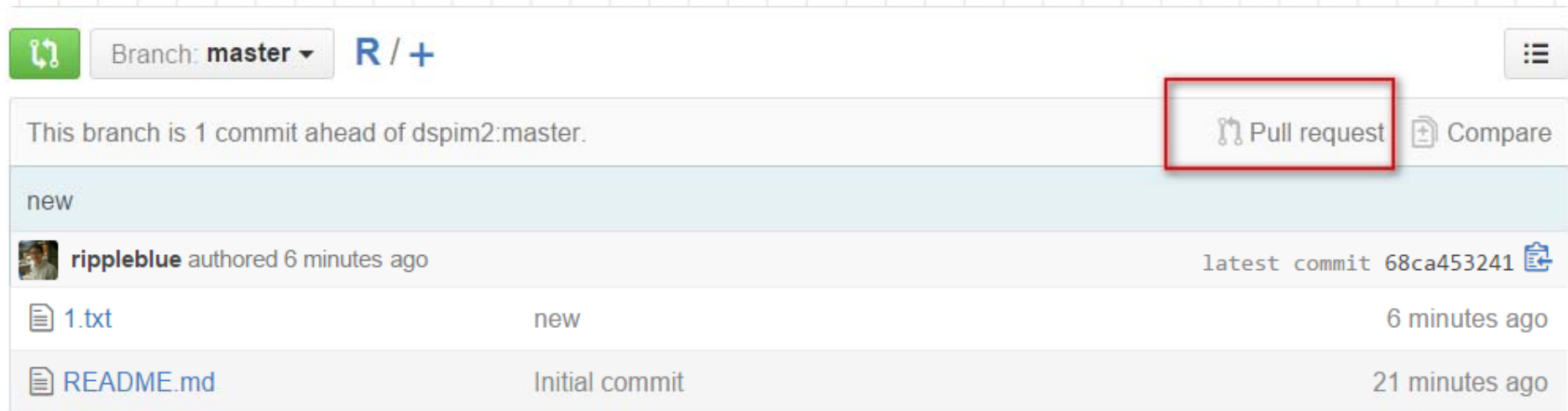


The screenshot shows the GitHub interface for the repository `dspim2 / R`. At the top, there are buttons for `Unwatch` (1), `Star` (0), and `Fork` (1). Below this is the repository description and website fields, with `Save` and `Cancel` buttons. A summary bar shows `1 commit`, `1 branch`, `0 releases`, and `1 contributor`. The current branch is `master`, and there is a button to `R / +`. The commit history shows an `Initial commit` by `dspim2` 10 minutes ago, with the latest commit hash `9612871d50`. On the right sidebar, there are links for `Code`, `Issues` (0), `Pull requests` (0), `Wiki`, and `Pulse`.

先Fork到本機

- git clone <https://github.com/rippleblue/R.git>
- 新增檔案
- Git add .
- Git commit -m “something new”
- Git push

Create pull request



The screenshot shows a GitHub pull request interface. At the top, there's a green icon with a fork and a branch selector showing 'master'. To the right is a blue 'R / +' icon. Below this, a status bar indicates 'This branch is 1 commit ahead of dspim2:master.' On the right side of this bar, there are two buttons: 'Pull request' (highlighted with a red box) and 'Compare'. Below the status bar, the pull request is titled 'new'. The author is 'rippleblue' who authored it 6 minutes ago. The latest commit is '68ca453241'. The pull request contains two files: '1.txt' (new, 6 minutes ago) and 'README.md' (Initial commit, 21 minutes ago).

Branch: master R / +

This branch is 1 commit ahead of dspim2:master.

Pull request Compare

new

rippleblue authored 6 minutes ago latest commit 68ca453241

1.txt	new	6 minutes ago
README.md	Initial commit	21 minutes ago

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).



base fork: **dspim2/R** ▾

base: **master** ▾

...

head fork: **rippleblue/R** ▾

compare: **master** ▾

✓ **Able to merge.** These branches can be automatically merged.



Create pull request

Discuss and review the changes in this comparison with others.



🔗 1 commit

📄 1 file changed

💬 0 commit comments

👤 1 contributor



Commits on Sep 19, 2015



rippleblue

new

68ca453



Showing **1 changed file** with **0 additions** and **0 deletions**.

Unified

Split

0




1.txt

View



收到Pull requests的Repository

 dspim2 / R

 Unwatch ▾ 1

 Star 0

 Fork 1

Description

Short description of this repository

Website

Website for this repository (optional)

Save or Cancel

 1 commit

 1 branch

 0 releases

 1 contributor



Branch: master ▾


R / +



Initial commit



dspim2 authored 22 minutes ago

latest commit 9612871d50 

 README.md

Initial commit

22 minutes ago


 README.md

R

 Code

 Issues 0

 Pull requests 1

 Wiki

 Pulse

 Graphs

 Settings

HTTPS clone URL



rippleblue commented [a minute ago](#)



No description provided.



new

68ca453



dspim2 commented just now

Owner



Thx



This branch is up-to-date 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](#).



Write

Preview



Markdown supported

Leave a comment

Attach images by dragging & dropping, [selecting them](#), or pasting from the clipboard.

Close pull request

Comment

im



Merge pull request #2 from rippleblue/master

Something new2

 Confirm merge

Cancel

Description

Website

 or [Cancel](#)

🕒 3 commits

🌿 1 branch

📦 0 releases

👤 1 contributor



Branch: master ▾

R / +



Merge pull request #2 from rippleblue/master ...



dspim2 authored 10 seconds ago

latest commit aad009cae4

📄 1.txt

new

11 minutes ago

📄 README.md

Initial commit

25 minutes ago

📖 README.md

R

<> Code

🔔 Issues 0

🔗 Pull requests 0

📖 Wiki

📶 Pulse

📊 Graphs

⚙️ Settings

HTTPS clone URL



進階GIT

Git reset 還原

- 檔案經過Branch上傳
- 將v1進行Merge

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [v1]> git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git merge v1
Updating 5f5b362..816b591
Fast-forward
 2.txt | 0
 33.txt | 0
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 2.txt
create mode 100644 33.txt
```

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> dir
```

```
目錄: C:\Users\rippleblue2002\Documents\GitHub\Rtest
```

Mode	LastWriteTime	Length	Name
-a---	2015/9/26 下午 11:15	0	1.txt
-a---	2015/9/26 下午 11:15	0	2.txt
-a---	2015/9/26 下午 11:15	0	3.txt
-a---	2015/9/26 下午 10:35	5	README.md

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git revert HEAD
```

```
[master f0a4e46] Revert "new"  
3 files changed, 0 insertions(+), 0 deletions(-)  
delete mode 100644 1.txt  
delete mode 100644 2.txt  
delete mode 100644 3.txt
```

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git push
```

```
Counting objects: 3, done.  
Delta compression using up to 4 threads.  
Compressing objects: 100% (1/1), done.  
Writing objects: 100% (2/2), 254 bytes | 0 bytes/s, done.  
Total 2 (delta 0), reused 0 (delta 0)  
To https://github.com/rippleblue/Rtest.git  
a942f8f..f0a4e46 master -> master
```

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> dir
```

```
目錄: C:\Users\rippleblue2002\Documents\GitHub\Rtest
```

Mode	LastWriteTime	Length	Name
-a---	2015/9/26 下午 10:35	5	README.md

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]>
```

- git show HEAD^ (前一版本)
- git show HEAD^^ (前前一版本)
- git show HEAD~4 (前前前前一版本)

```
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git show HEAD^
commit 929669b3419a4dd12562a3368d7e67fcd1d34d46
Author: jerry <jerry@mail.ntust.edu.tw>
Date: Sat Sep 26 22:37:16 2015 +0800

    txt2

diff --git a/2.txt b/2.txt
deleted file mode 100644
index e69de29..0000000
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git revert HEAD^
[master 50ba30b] Revert "txt2"
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 2.txt
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]> git push
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 312 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/rippleblue/Rtest.git
 f0a4e46..50ba30b master -> master
C:\Users\rippleblue2002\Documents\GitHub\Rtest [master]>
```

- git show filename #檢查狀態
- git diff filename #列出差異
- git stash #放入暫存區