

第 04 天：常用的 **Git** 版本控管指令

本篇文章將帶大家學會幾個最重要也最基本的版控工作，其中將包含基本的檔案操作如新增、刪除、重新命名檔案，提交變更 (建立新版本)、查詢歷史紀錄等工作。

準備工作目錄

複習一下上一篇「第 03 天：建立儲存庫」的內容，我們直接來建立一個本地儲存庫，即可開始本篇文章的所有練習。

```
mkdir git-demo  
cd git-demo  
git init
```

新增檔案

我們在工作目錄下放一些檔案，至於放什麼檔案都可以，總之先複製一些現有的檔案與目錄進到目前的工作目錄下。

本篇文章，我將以 **YEOMAN** (<http://yeoman.io/>) 工具，快速產生一個 **webapp** 範例網站，只要一個指令就可以建立一個完整網站：

```
yo webapp
```

註：關於 **YEOMAN** (<http://yeoman.io/>) 在 **Windows** 平台的使用，可以參考筆者的文章 [如何在 Windows 平台安裝與使用 Yeoman 1.0 相關工具](http://blog.miniasp.com/post/2013/08/11/Yeoman-1-0-Installation-and-Usage-on-Windows.aspx) (<http://blog.miniasp.com/post/2013/08/11/Yeoman-1-0-Installation-and-Usage-on-Windows.aspx>)，該文詳述完整的安裝與使用過程。

新增了檔案之後，如果你還在 **Git Shell** 介面下，應該會立刻看到如下圖的提示：

```
posh~git ~ git-demo [master]
C:\Users\User\Documents\GitHub\git-demo [master +10 ~0 -0 !]> dir

目錄: C:\Users\User\Documents\GitHub\git-demo

Mode                LastWriteTime         Length Name
----                -
d----- 2013/9/19 下午 11:38             app
d----- 2013/9/19 下午 11:39          node_modules
d----- 2013/9/19 下午 11:37             test
-a--- 2013/9/19 下午 11:21             44 .bowerrc
-a--- 2013/9/19 下午 11:21            415 .editorconfig
-a--- 2013/9/19 下午 11:21             11 .gitattributes
-a--- 2013/9/19 下午 11:21             56 .gitignore
-a--- 2013/9/19 下午 11:21            411 .jshintrc
-a--- 2013/9/19 下午 11:21            207 bower.json
-a--- 2013/9/19 下午 11:37           12000 Gruntfile.js
-a--- 2013/9/19 下午 11:37            980 package.json

C:\Users\User\Documents\GitHub\git-demo [master +10 ~0 -0 !]> _
```

也就是以下這段位於路徑後面的提示：

```
[master +10 ~0 -0 !]
```

在這段提示的地方，你可以看到幾個東西：

- **master** 代表目前工作目錄是 **master** 分支，也是 **Git** 的預設分支名稱。
- 「紅色」的數字都代表 **Untracked** (未追蹤) 的檔案，也就是這些變更都不會進入版本控管。
- **+10** 代表有 10 個「新增」的檔案
- **~0** 代表有 0 個「修改」的檔案
- **-0** 代表有 0 個「刪除」的檔案

如果要將這些新增的檔案加入到 **Git** 版本控管，你必須下達以下指令：

```
git add .
```

如此一來，這個工作目錄下所有的檔案、目錄與子目錄下的所有檔案，全部都會被加入到這個 **Git** 工作目錄的【索引】或【快取】之中。請注意: 此時並沒有建立任何版本，只是告知 **Git** 這些檔案「即將」被加入 **Git** 版本庫而已。

如下圖示，是我這邊執行完 `git add .` 之後的結果，這裡所發生的 **warning** 訊息不是很嚴重，有興趣了解的人可以參考筆者的另一篇文章: **Git** 在 **Windows** 平台處理斷行字元 (**CRLF**) 的注意事項 (<http://blog.miniasp.com/post/2013/09/15/Git-for-Windows-Line-Ending-Conversion-Notes.aspx>)。

```
posh~git ~ git-demo [master]
C:\Users\User\Documents\GitHub\git-demo [master +10 ~0 -0 1]> git add .
warning: LF will be replaced by CRLF in .bowerrc.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .editorconfig.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .jshintrc.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in Gruntfile.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/.htaccess.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/404.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/index.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/robots.txt.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/scripts/app.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/scripts/main.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/styles/main.scss.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in bower.json.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in package.json.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/index.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/chai.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/expect.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/mocha/mocha.css.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/mocha/mocha.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/spec/test.js.
The file will have its original line endings in your working directory.
C:\Users\User\Documents\GitHub\git-demo [master +23 ~0 -0]>
```

不過有趣的地方在於，原本「紅色的數字」現在卻變成了「綠色的數字」，這裡所代表的意義是：

- 「綠色」的數字都代表 **Staged** (準備好) 的檔案，也就是這些變更才會進入版本控管。
- **+23** 代表有 23 個「新增」的檔案將被建立一個版本
- **~0** 代表有 0 個「修改」的檔案將被建立一個版本
- **-0** 代表有 0 個「刪除」的檔案將被建立一個版本

但原本不是只有 +10 (紅色) 而已嗎？怎麼執行完後變成了 +23 (綠色) 呢？

我們執行 `git reset` 重設一下工作目錄的索引狀態，然後再執行一次 `git status` 查詢當前工作目錄的詳細狀態，如下圖示：

```
posh~git ~ git-demo [master]
C:\Users\User\Documents\GitHub\git-demo [master +23 ~0 -0]> git reset
C:\Users\User\Documents\GitHub\git-demo [master +10 ~0 -0 !]> git status
# On branch master
#
# Initial commit
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       .bowerrc
#       .editorconfig
#       .gitattributes
#       .gitignore
#       .jshintrc
#       Gruntfile.js
#       app/
#       bower.json
#       package.json
#       test/
nothing added to commit but untracked files present (use "git add" to track)
C:\Users\User\Documents\GitHub\git-demo [master +10 ~0 -0 !]>
```

你可以發現，這邊列出的只有「第一層目錄下的檔案與目錄」而已，因為 `git` 不會這個時候去查到底目錄下到底有多少檔案沒有被追蹤。

當我們執行 `git add .` 之後，再執行一次 `git status` 查詢狀態，你可以發現連子目錄下的檔案也都全部被加入了，所以這個數字才會變多，如下圖示：

```
C:\Users\User\Documents\GitHub\git-demo [master +23 ~0 -0]> git status
# On branch master
#
# Initial commit
#
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#       new file:   .bowerrc
#       new file:   .editorconfig
#       new file:   .gitattributes
#       new file:   .gitignore
#       new file:   .jshintrc
#       new file:   Gruntfile.js
#       new file:   app/.htaccess
#       new file:   app/404.html
#       new file:   app/favicon.ico
#       new file:   app/index.html
#       new file:   app/robots.txt
#       new file:   app/scripts/app.js
#       new file:   app/scripts/hello.coffee
#       new file:   app/scripts/main.js
#       new file:   app/styles/main.scss
#       new file:   bower.json
#       new file:   package.json
#       new file:   test/index.html
#       new file:   test/lib/chai.js
#       new file:   test/lib/expect.js
#       new file:   test/lib/mocha/mocha.css
#       new file:   test/lib/mocha/mocha.js
#       new file:   test/spec/test.js
C:\Users\User\Documents\GitHub\git-demo [master +23 ~0 -0]>
```

新增部分檔案

剛剛提到的 `git add .` 指令會自動將所有檔案(含子目錄的檔案)加入到工作目錄索引中，有時候我們只想讓特定目錄或特定檔案加入版本，這時你也可以指定特定目錄，或利用萬用字元來加入檔案。

我們再執行一次 `git reset` 重設工作目錄的索引狀態，然後用 `git add app` 加入 `app` 這個資料夾與其下的所有檔案，還有用 `git add .*` 新增所有「點」開頭的檔案，如下圖示：

```
C:\Users\User\Documents\GitHub\git-demo [master +23 ~0 -0]> git reset
C:\Users\User\Documents\GitHub\git-demo [master +10 ~0 -0 !]> dir
```

目錄: C:\Users\User\Documents\GitHub\git-demo

Mode	LastWriteTime	Length	Name
d----	2013/9/19 下午 11:38		app
d----	2013/9/19 下午 11:39		node_modules
d----	2013/9/19 下午 11:37		test
-a---	2013/9/19 下午 11:21	44	.bowerrc
-a---	2013/9/19 下午 11:21	415	.editorconfig
-a---	2013/9/19 下午 11:21	11	.gitattributes
-a---	2013/9/19 下午 11:21	56	.gitignore
-a---	2013/9/19 下午 11:21	411	.jshintrc
-a---	2013/9/19 下午 11:21	207	bower.json
-a---	2013/9/19 下午 11:37	12000	Gruntfile.js
-a---	2013/9/19 下午 11:37	980	package.json

```
C:\Users\User\Documents\GitHub\git-demo [master +10 ~0 -0 !]> git add app
warning: LF will be replaced by CRLF in app/.htaccess.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/404.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/index.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/robots.txt.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/scripts/app.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/scripts/main.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/styles/main.scss.
The file will have its original line endings in your working directory.
C:\Users\User\Documents\GitHub\git-demo [master +9 ~0 -0 | +9 ~0 -0 !]> git add .*
warning: LF will be replaced by CRLF in .bowerrc.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .editorconfig.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .jshintrc.
The file will have its original line endings in your working directory.
C:\Users\User\Documents\GitHub\git-demo [master +14 ~0 -0 | +4 ~0 -0 !]> _
```

```
C:\Users\User\Documents\GitHub\git-demo [master +14 ~0 -0 | +4 ~0 -0 !]> git status
# On branch master
#
# Initial commit
#
# Changes to be committed:
#   (use "git rm --cached <file>..." to unstage)
#
#       new file:   .bowerrc
#       new file:   .editorconfig
#       new file:   .gitattributes
#       new file:   .gitignore
#       new file:   .jshintrc
#       new file:   app/.htaccess
#       new file:   app/404.html
#       new file:   app/favicon.ico
#       new file:   app/index.html
#       new file:   app/robots.txt
#       new file:   app/scripts/app.js
#       new file:   app/scripts/hello.coffee
#       new file:   app/scripts/main.js
#       new file:   app/styles/main.scss
#
# Untracked files:
#   (use "git add <file>..." to include in what will be committed)
#
#       Gruntfile.js
#       bower.json
#       package.json
#       test/
C:\Users\User\Documents\GitHub\git-demo [master +14 ~0 -0 | +4 ~0 -0 !]>
```

在執行的過程中，你應該可以發現，在執行 `git add` 的過程中，**Git Shell** 提示的文字也有了些變化，現在同時出現了「綠色的數字」與「紅色的數字」，所代表的意思跟上述是一樣的，是不是非常方便辨識！當你需要知道詳情才需要執行 `git status` 指令。

註：詳細的指令與參數說明，可以輸入 `git help add` 查詢完整的文件。

提交變更 / 建立版本

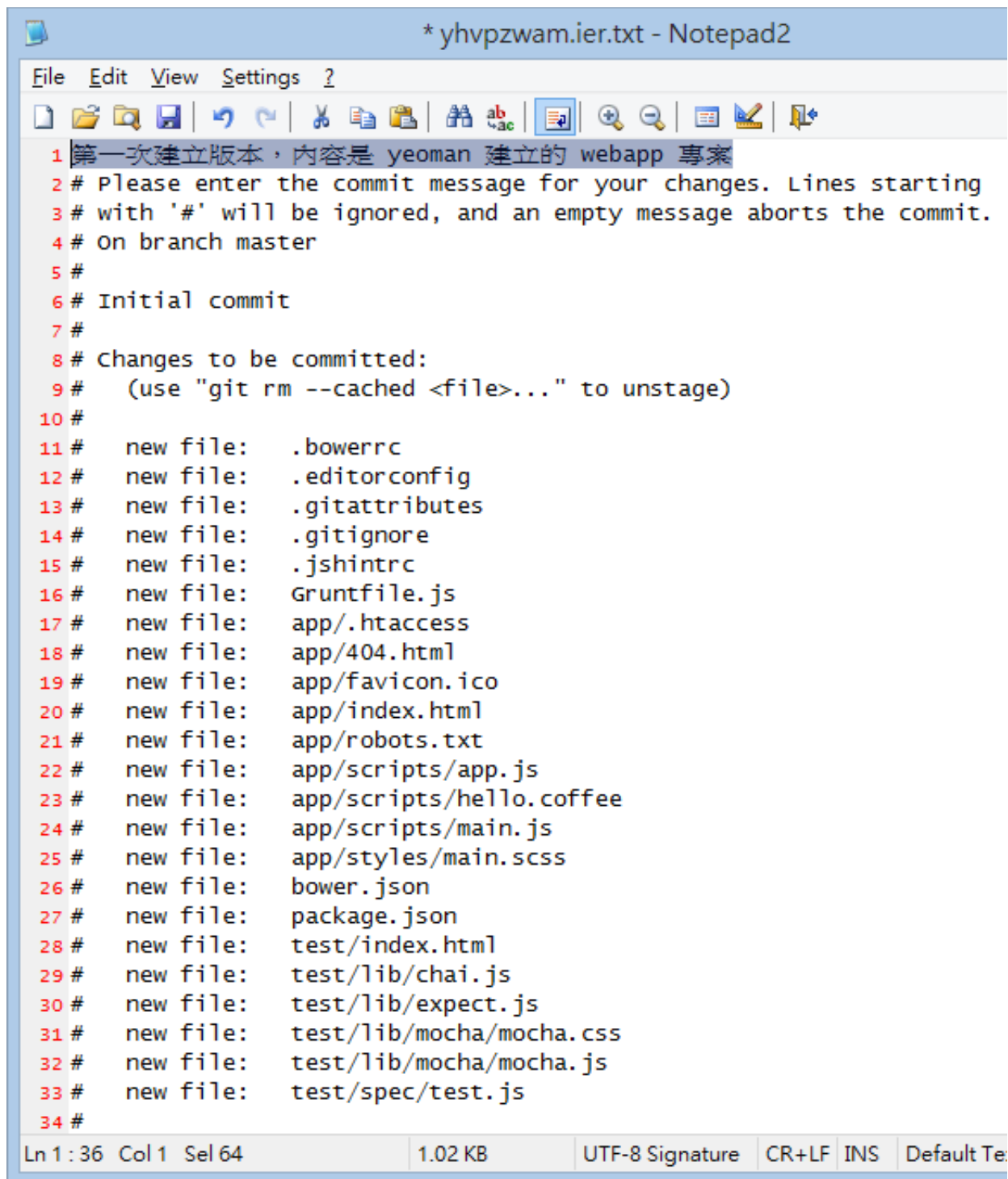
這時我們預計要建立一個新版本了，在建立版本之前，我們還是把所有檔案給加入吧，請各位在執行一次 `git add .` 命令。

建立版本的指令如下：

```
git commit
git commit -m "版本紀錄的說明文字"
```

在 **Git** 版本控管中，所有的版本都必須擁有「版本紀錄的說明文字」(簡稱 **Log**)，不像 **Subversion** 預設可以簽入「沒有版本紀錄說明」的版本。所以當你直接輸入 `git commit` 的話，預設會開啟 **Notepad** (記事本) 讓你輸入這個版本的訊息。開啟後的檔案會有很多 **#** 符號開頭的文字，這些都是註解，不會成為 **Log** 的一部分。

如下圖示，是我輸入的訊息文字：



```
File Edit View Settings ?
[Icons]
1 第一次建立版本，內容是 yeoman 建立的 webapp 專案
2 # Please enter the commit message for your changes. Lines starting
3 # with '#' will be ignored, and an empty message aborts the commit.
4 # on branch master
5 #
6 # Initial commit
7 #
8 # Changes to be committed:
9 #   (use "git rm --cached <file>..." to unstage)
10 #
11 #   new file:   .bowerrc
12 #   new file:   .editorconfig
13 #   new file:   .gitattributes
14 #   new file:   .gitignore
15 #   new file:   .jshintrc
16 #   new file:   Gruntfile.js
17 #   new file:   app/.htaccess
18 #   new file:   app/404.html
19 #   new file:   app/favicon.ico
20 #   new file:   app/index.html
21 #   new file:   app/robots.txt
22 #   new file:   app/scripts/app.js
23 #   new file:   app/scripts/hello.coffee
24 #   new file:   app/scripts/main.js
25 #   new file:   app/styles/main.scss
26 #   new file:   bower.json
27 #   new file:   package.json
28 #   new file:   test/index.html
29 #   new file:   test/lib/chai.js
30 #   new file:   test/lib/expect.js
31 #   new file:   test/lib/mocha/mocha.css
32 #   new file:   test/lib/mocha/mocha.js
33 #   new file:   test/spec/test.js
34 #
Ln 1: 36 Col 1 Sel 64    1.02 KB    UTF-8 Signature    CR+LF    INS    Default Te
```

當你按下 **Ctrl+S** 儲存這個文字檔，這時還不會建立一個新版本，還必須關閉這個 Notepad 視窗，這時才會正式建立版本，如下圖示：

```
posh~git ~ git-demo [master]
C:\Users\User\Documents\GitHub\git-demo [master +23 ~0 ~0]> git commit
[master (root-commit) 00ad227] 第一次建立版本，內容是 yeoman 建立的 webapp 專案
warning: LF will be replaced by CRLF in .bowerrc.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .editorconfig.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in .jshintrc.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in Gruntfile.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/.htaccess.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/404.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/index.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/robots.txt.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/scripts/app.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/scripts/main.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in app/styles/main.scss.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in bower.json.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in package.json.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/index.html.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/chai.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/expect.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/mocha/mocha.css.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/lib/mocha/mocha.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in test/spec/test.js.
The file will have its original line endings in your working directory.
23 files changed, 10856 insertions(+)
create mode 100644 .bowerrc
create mode 100644 .editorconfig
create mode 100644 .gitattributes
create mode 100644 .gitignore
create mode 100644 .jshintrc
create mode 100644 Gruntfile.js
create mode 100644 app/.htaccess
create mode 100644 app/404.html
create mode 100644 app/favicon.ico
create mode 100644 app/index.html
create mode 100644 app/robots.txt
create mode 100644 app/scripts/app.js
create mode 100644 app/scripts/hello.coffee
create mode 100644 app/scripts/main.js
create mode 100644 app/styles/main.scss
create mode 100644 bower.json
create mode 100644 package.json
create mode 100644 test/index.html
create mode 100644 test/lib/chai.js
create mode 100644 test/lib/expect.js
create mode 100644 test/lib/mocha/mocha.css
create mode 100644 test/lib/mocha/mocha.js
create mode 100644 test/spec/test.js
C:\Users\User\Documents\GitHub\git-demo [master]>
```

建立版本完後，Git Shell 的提示就只剩下 `[master]` 字樣了，代表目前已經沒有任何要被建立版本的索引或快取。

註：詳細的指令與參數說明，可以輸入 `git help commit` 查詢完整的文件。

查詢歷史紀錄

由於我們剛剛建立了一個版本，當我們想要查詢版本的歷史紀錄，可以輸入以下指令：


```
git log
```

```
posh~git ~ git-demo [master]
C:\Users\User\Documents\GitHub\git-demo [master]> git log
commit 00ad2279ff021b8ef1722417cd856f64aef0ef64
Author: Will <[redacted]@gmail.com>
Date:   Fri Sep 20 00:28:42 2013 +0800

    第一次建立版本，內容是 yeoman 建立的 webapp 專案
C:\Users\User\Documents\GitHub\git-demo [master]>
```

有時候紀錄越來越多，你也可以透過以下指令限制輸出的版本數量，你只要透過一個減號 (-) 與一個數字，就可以限定輸出最近幾筆紀錄：

```
git log -10
```

註：詳細的指令與參數說明，可以輸入 `git help log` 查詢完整的文件。

刪除檔案

在 Git 指令列工具中也有個 `rm` 指令，可以用來刪除檔案。例如我們想刪除 `Gruntfile.js` 這個檔案，可以輸入以下指令：

```
git rm 'Gruntfile.js'
```

```
C:\Users\User\Documents\GitHub\git-demo [master]> git rm 'Gruntfile.js'
rm 'Gruntfile.js'
C:\Users\User\Documents\GitHub\git-demo [master +0 ~0 -1]> git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       deleted:   Gruntfile.js
#
C:\Users\User\Documents\GitHub\git-demo [master +0 ~0 -1]>
```

這個 `git rm` 的指令執行的時候，會同時做兩件事：

1. 刪除工作目錄快取的 'Gruntfile.js' 這個檔案 (用來標示這個刪除檔案的動作要列入版本控管)
2. 刪除工作目錄下的 'Gruntfile.js' 這個實體檔案 (代表真的把這個實體檔案給刪除)

註：詳細的指令與參數說明，可以輸入 `git help rm` 查詢完整的文件。

檔案更名

在 Git 指令列工具中也有個 `mv` 指令，可以用來變更檔案或目錄的名稱。例如我們想把 `test` 目錄更名為 `unit-test` 名稱，可以輸入以下指令：

```
git mv test unit-test
```

```
C:\Users\User\Documents\GitHub\git-demo [master +0 ~0 -1]> git mv test unit-test
C:\Users\User\Documents\GitHub\git-demo [master +0 ~6 -1]> git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       deleted:    Gruntfile.js
#       renamed:    test/index.html -> unit-test/index.html
#       renamed:    test/lib/chai.js -> unit-test/lib/chai.js
#       renamed:    test/lib/expect.js -> unit-test/lib/expect.js
#       renamed:    test/lib/mocha/mocha.css -> unit-test/lib/mocha/mocha.css
#       renamed:    test/lib/mocha/mocha.js -> unit-test/lib/mocha/mocha.js
#       renamed:    test/spec/test.js -> unit-test/spec/test.js
#
C:\Users\User\Documents\GitHub\git-demo [master +0 ~6 -1]>
```

註：詳細的指令與參數說明，可以輸入 `git help mv` 查詢完整的文件。

顯示工作目錄的索引狀態

剛剛我們一直會看到 `git status` 來顯示工作目錄的狀態，你也可以使用 `git status -s` 來顯示較為精簡的版本。

```
C:\Users\User\Documents\GitHub\git-demo [master +0 ~6 -1]> git status -s
D Gruntfile.js
R test/index.html -> unit-test/index.html
R test/lib/chai.js -> unit-test/lib/chai.js
R test/lib/expect.js -> unit-test/lib/expect.js
R test/lib/mocha/mocha.css -> unit-test/lib/mocha/mocha.css
R test/lib/mocha/mocha.js -> unit-test/lib/mocha/mocha.js
R test/spec/test.js -> unit-test/spec/test.js
C:\Users\User\Documents\GitHub\git-demo [master +0 ~6 -1]>
```

註：詳細的指令與參數說明，可以輸入 `git help status` 查詢完整的文件。

重置目前的工作目錄

我們曾經學過如何利用 `git reset` 重置目前工作目錄的索引狀態，但請注意，這個指令預設只會重置「索引狀態」，那些你用 `git rm` 刪除的目錄或檔案，還是用 `git mv` 更名的目錄或檔案，透過 `git reset` 都無法把「實體檔案」給救回來。

如果想把工作目錄也給還原到目前的最新版，則必須輸入以下指令：

```
git reset --hard
```

註：詳細的指令與參數說明，可以輸入 `git help reset` 查詢完整的文件。

還原其中一個被改壞的檔案

如果檔案編輯到一半，發現被改壞了，你希望能救回改沒修改前的版本，這時你可以利用以下指令還原檔案：

```
git checkout master Gruntfile.js
```

```
C:\Users\User\Documents\GitHub\git-demo [master +0 ~6 -1]> git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       deleted:    Gruntfile.js
#       renamed:    test/index.html -> unit-test/index.html
#       renamed:    test/lib/chai.js -> unit-test/lib/chai.js
#       renamed:    test/lib/expect.js -> unit-test/lib/expect.js
#       renamed:    test/lib/mocha/mocha.css -> unit-test/lib/mocha/mocha.css
#       renamed:    test/lib/mocha/mocha.js -> unit-test/lib/mocha/mocha.js
#       renamed:    test/spec/test.js -> unit-test/spec/test.js
#
C:\Users\User\Documents\GitHub\git-demo [master +0 ~6 -1]> git checkout master Gruntfile.js
C:\Users\User\Documents\GitHub\git-demo [master +0 ~6 -0]> _
```

這段指令的意思是，把 `master` 分支中最新版的 `Gruntfile.js` 給還原，由於我先前已經把 `Gruntfile.js` 給刪除了，為了要救回這一個檔，可以用這個方式救回。這樣可以避免使用 `git reset --hard` 一次把所有檔案都給還原了！

請注意，還原的過程也會一併復原工作目錄的索引狀態喔！

註：詳細的指令與參數說明，可以輸入 `git help checkout` 查詢完整的文件。

今日小結

今日的文章，可以說是在 `Git` 版本控管中不斷會重複使用的指令與參數，必須非常熟練才行，接下來的文章，將會詳細探討 `Git` 版本控管的內部結構，千萬不要錯過！

我重新整理一下本日學到的 `Git` 指令與參數：

- `git init`
- `git add .`
- `git add app/*`
- `git add *.txt`
- `git status`
- `git status -s`
- `git commit`
- `git commit -m "版本紀錄的說明文字"`
- `git log`
- `git log -10`
- `git rm '*.txt'`
- `git rm 'app/*.html'`
- `git mv 'oldname' 'newname'`
- `git reset`
- `git reset --hard`
- `git checkout master 'filename'`

參考連結

- BASIC SNAPSHOTTING (<http://gitref.org/basic/>)

A Mashup of bootstrap (<http://twitter.github.com/bootstrap/>) and markdown.js (<https://github.com/evilstreak/markdown-js>) by @ethanlo (<http://www.twitter.com/ethanlo>).