

Subversion (SVN)

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Edited from 李明璋學長's lecture.
2013/2/19

When Programming...

- Have you ever encountered these problems?

第2筆測資終於可以跑了, 可是原本可以過的測資壞了!!

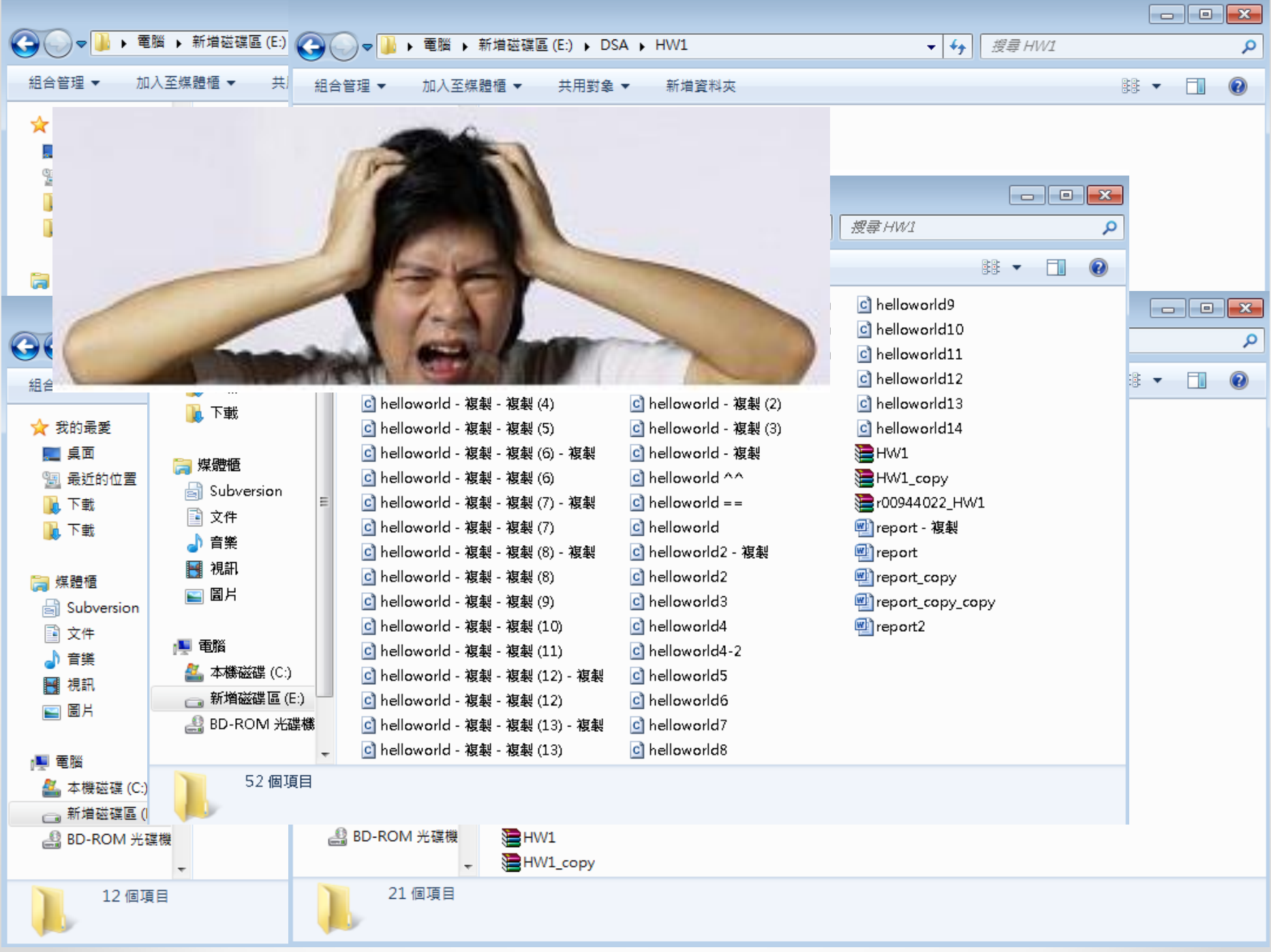
起床後忘了昨天改過哪些東西 /囧\

砍掉重練後發現原本寫的方法才是對的QQ

終於把bug底掉了, 可是好像刪到
不該刪的東西 ㄣ(ㄟ皿ㄟ)ノ

阿阿~阿阿阿阿~ 硬碟冒煙了!!!!

.....



電腦 > 新增磁碟區 (E:) 電腦 > 新增磁碟區 (E:) > DSA > HW1 搜尋 HW1

組合管理 加入至媒體庫 共用對象 新增資料夾

我的最愛 桌面 最近的位置 下載 下載 媒體庫 Subversion 文件 音樂 視訊 圖片 電腦 本機磁碟 (C:) 新增磁碟區 (E:) BD-ROM 光碟機

52 個項目

12 個項目 21 個項目

helloworld - 複製 - 複製 (4) helloworld - 複製 (2)
helloworld - 複製 - 複製 (5) helloworld - 複製 (3)
helloworld - 複製 - 複製 (6) - 複製 helloworld - 複製
helloworld - 複製 - 複製 (6) helloworld ^^
helloworld - 複製 - 複製 (7) - 複製 helloworld ==
helloworld - 複製 - 複製 (7) helloworld
helloworld - 複製 - 複製 (8) - 複製 helloworld2 - 複製
helloworld - 複製 - 複製 (8) helloworld2
helloworld - 複製 - 複製 (9) helloworld3
helloworld - 複製 - 複製 (10) helloworld4
helloworld - 複製 - 複製 (11) helloworld4-2
helloworld - 複製 - 複製 (12) - 複製 helloworld5
helloworld - 複製 - 複製 (12) helloworld6
helloworld - 複製 - 複製 (13) - 複製 helloworld7
helloworld - 複製 - 複製 (13) helloworld8

helloworld9
helloworld10
helloworld11
helloworld12
helloworld13
helloworld14
HW1
HW1_copy
r00944022_HW1
report - 複製
report
report_copy
report_copy_copy
report2

BD-ROM 光碟機 HW1 HW1_copy



And when team working,

above problems will become much more complex and serious!

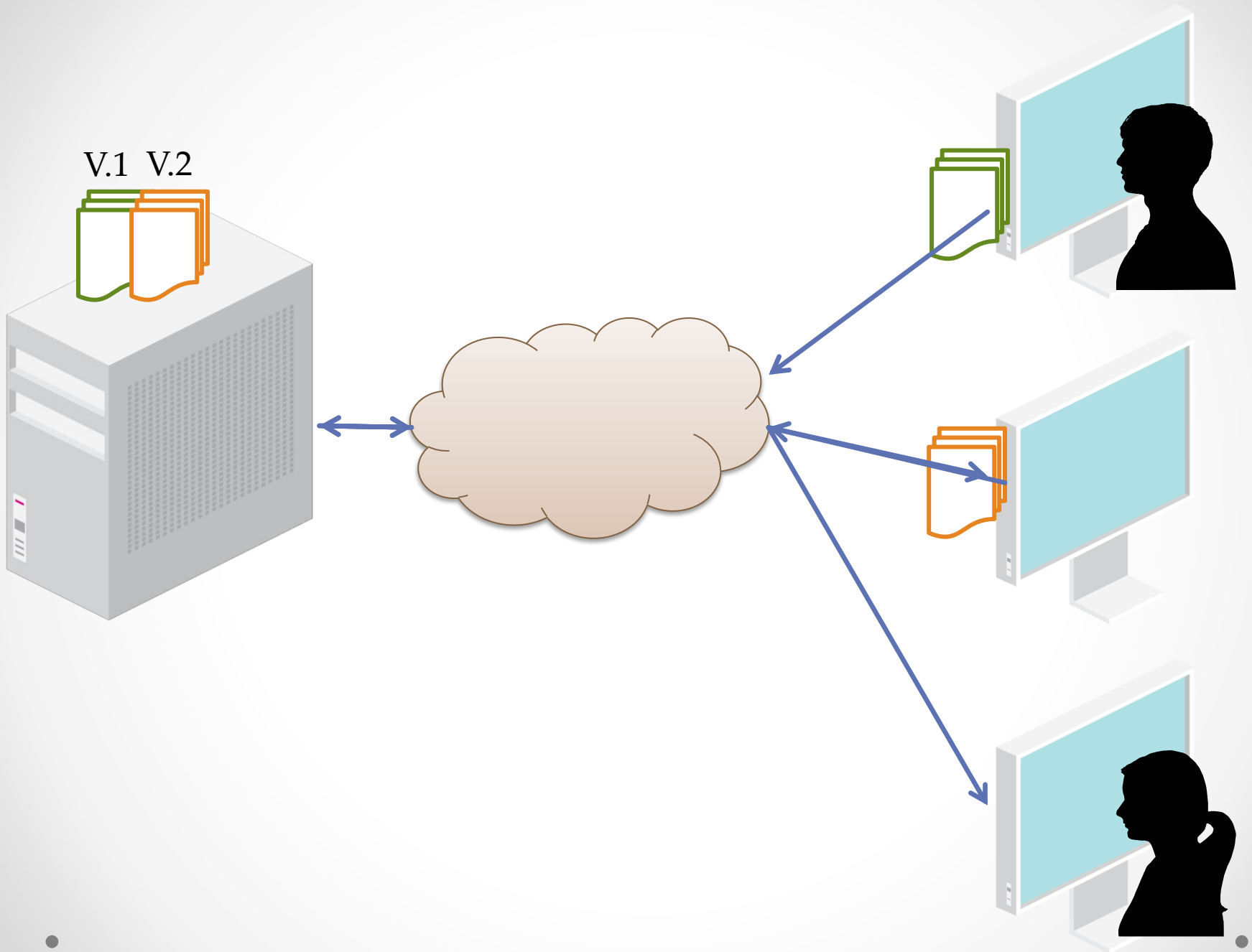
Any Solution?





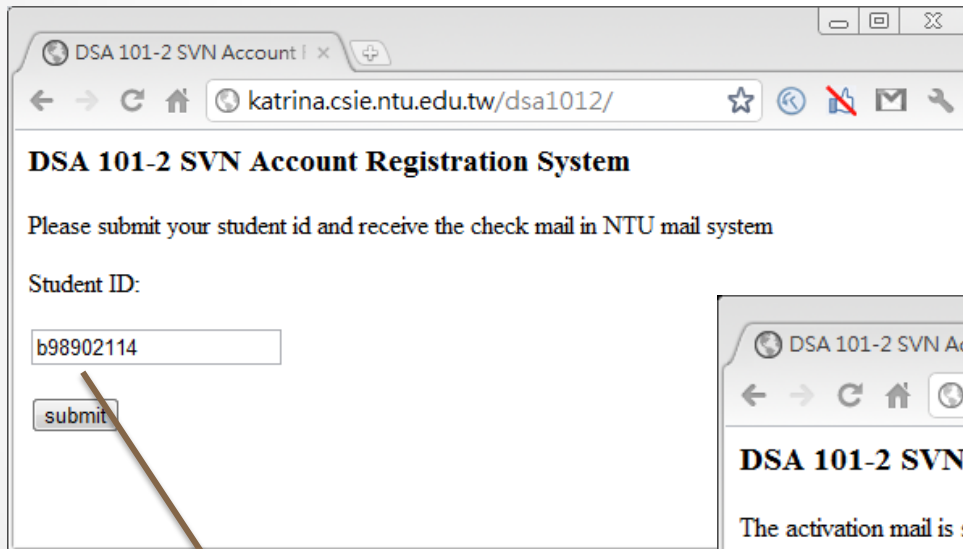
- SVN is an efficiently version control system.
- Renamed/copied/moved/removed files/folders retain full version history.
- Open source licensed.

What is Subversion (SVN)



How to get your account?

- <http://katrina.csie.ntu.edu.tw/dsa1012/>

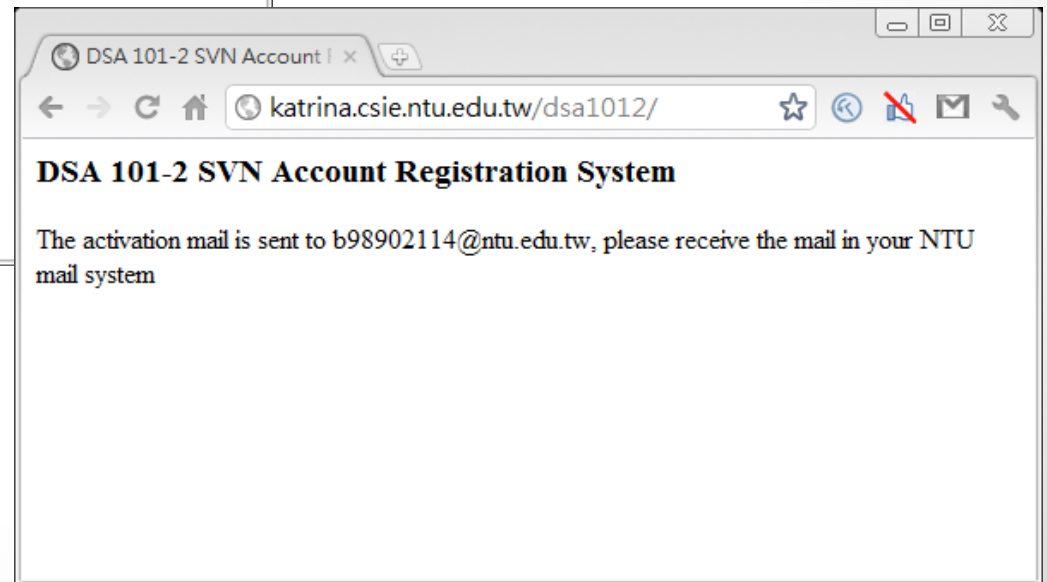


DSA 101-2 SVN Account Registration System

Please submit your student id and receive the check mail in NTU mail system

Student ID:

填入自己的學號



DSA 101-2 SVN Account Registration System

The activation mail is sent to b98902114@ntu.edu.tw, please receive the mail in your NTU mail system



於NTU信箱收取
設定密碼的網址

How to get your account?

The image shows two overlapping browser windows from the URL `katrina.csie.ntu.edu.tw/dsa1012/check_pas`. The top window displays the registration form with the title "DSA 101-2 SVN Account Registration System". It instructs the user to "Please enter your wanted password and finish the registration process." The account number is pre-filled as "b98902114". The password field is masked with dots. A brown arrow points from the Chinese text "使用信中的連結設定密碼" (Use the link in the email to set the password) to the password input field. A "submit" button is located below the password field. The bottom window shows the same page after successful registration, with the message "Account is created successfully!" displayed.

DSA 101-2 SVN Account Registration System

Please enter your wanted password and finish the registration process.

Account: b98902114

Password:

submit

使用信中的連結設定密碼

DSA 101-2 SVN Account Registration System

Account is created successfully!

SVN Client

- **TortoiseSVN**

- <http://tortoisesvn.net/>



TortoiseSVN

- **SmartSVN**

- <http://www.syntevo.com/smartsvn/index.html>

- **EasySVN**

- <http://svn-ref.assembla.com/easysvn.html>

SVN Client Download

- <http://tortoisesvn.net/downloads.html>

Firefox (1) CMLab Webmail :: 收件匣 Facebook TortoiseSVN - Downloads

tortoisesvn.net/downloads.html

Home About Donate Downloads Translations Support/Docs Other tools

 **TortoiseSVN**

Info

- About
About TortoiseSVN
- Features
Highlights of TortoiseSVN
- Screenshots
Screenshots of various dialogs
- Donate
how about a nice gift for the developers?
- Testimonials
what users say about TortoiseSVN
- News Archive
News archive

Downloads

600堂英語課程-免費
本月底前, 限100個名額, 報完為止 免費英語檢測, 免費課程規劃
www.soaazvadu.com.tw

Syncro SVN Client
Multiplatform SVN front-end. Powerful & elegant user interface.
www.syncrosvndclient.com

TutorABC英文課程免費下載
線上真人同步英語視訊學習, 隨時隨地想 學就學!
天天花45分鐘, 英文實力倍增。
www.tutorabc.com

AdChoices

The current version is 1.7.5

For detailed info on what's new, read the [changelog](#) and the [release notes](#).

The current version 1.7.5 is linked against the Subversion library 1.7.3.

Please make sure that you choose the right installer for your PC, otherwise the setup will fail.

for 32-bit OS **for 64-bit OS**

To verify the file integrity follow [these instructions](#)

Updating
If you're updating from an earlier version (pre 1.6.10), you have to run the installation twice. Just use the *Repair install* the second time.

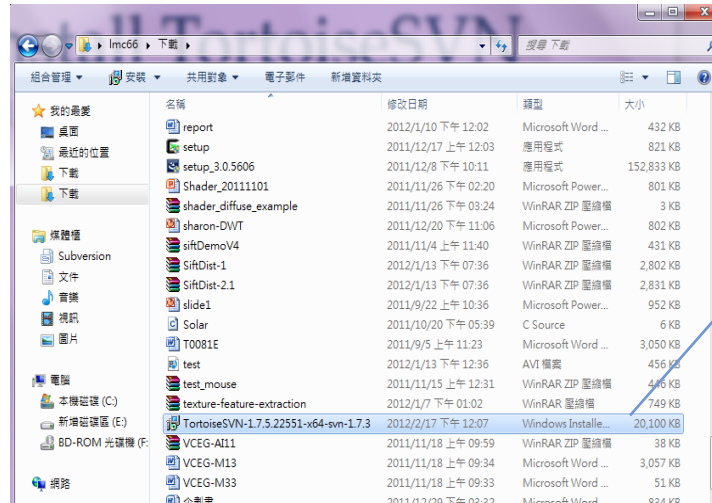
Misc

開始

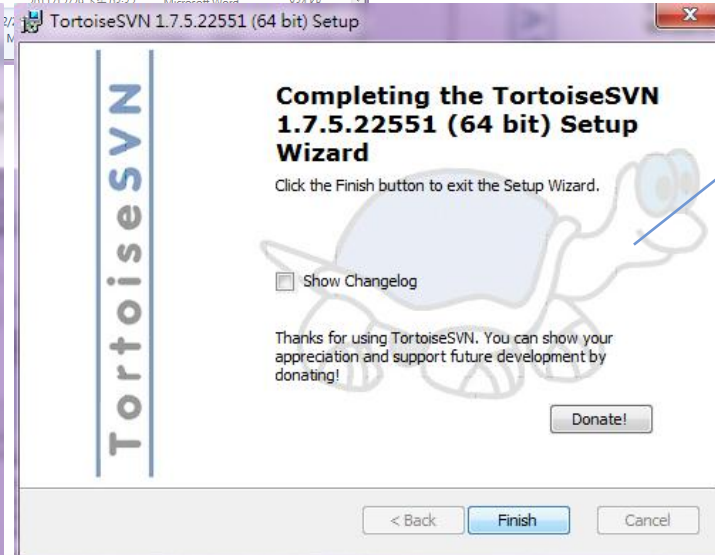
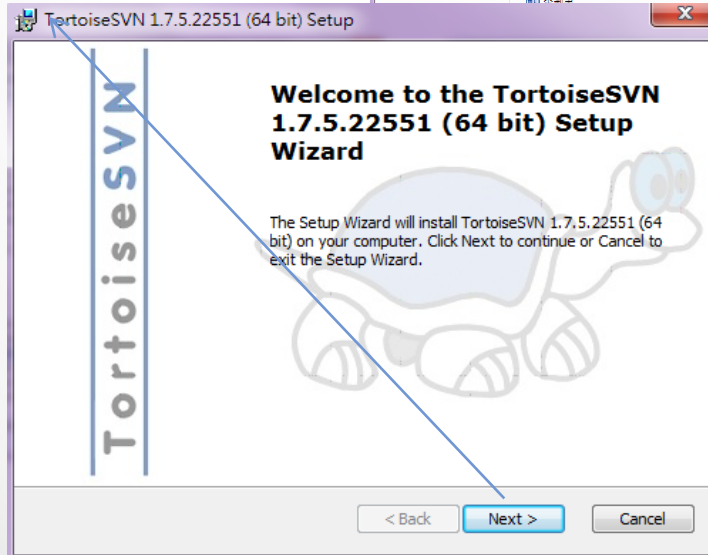
下午 02:28 2012/2/17

Install TortoiseSVN

一路按Next, Next,...,
and Install



打開下載的TortoiseSVN
安裝程式



安裝成功

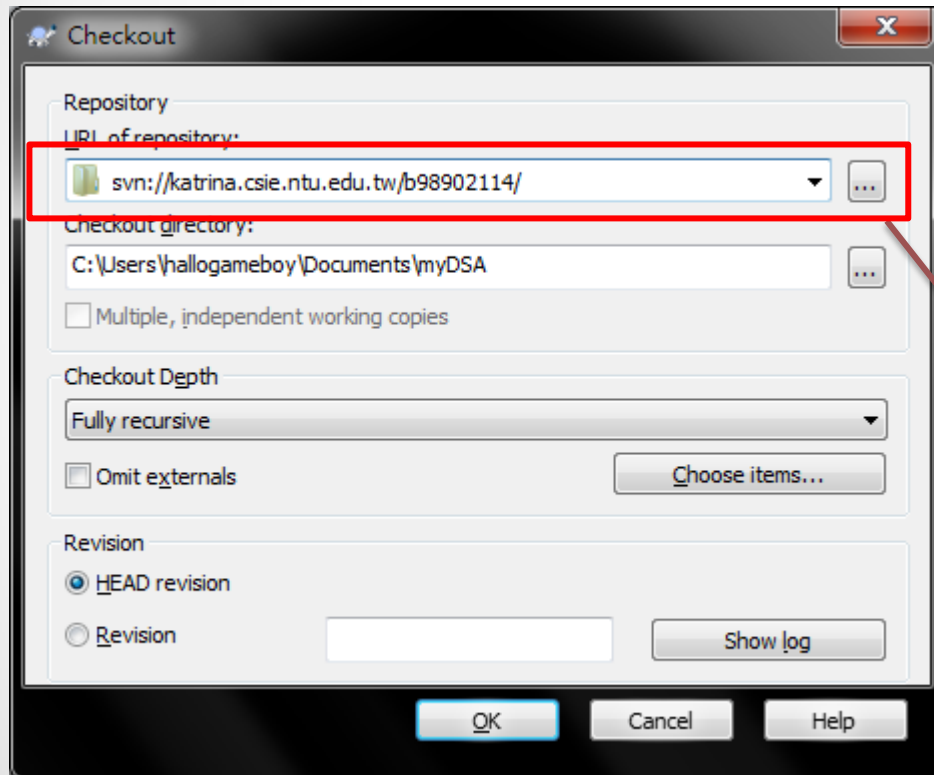
How to use TortoiseSVN?

- Checkout - 將資料夾與SVN server連接
- Commit - 上傳新版本(新增/刪除/修改)
- Update to the latest version
- Revert to the previous version

Checkout Your Files

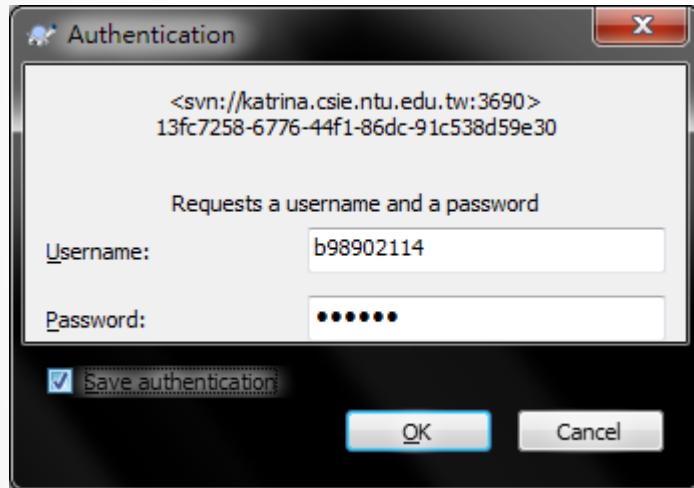


Checkout Your Files



在URL of repository輸入:
svn://katrina.csie.ntu.edu.tw/學號(帳號)/
接著按下OK

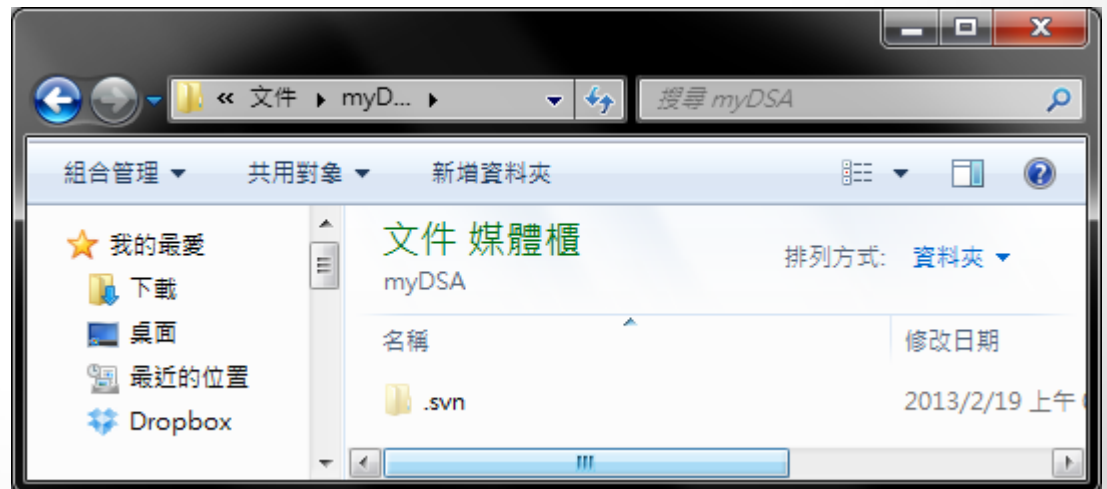
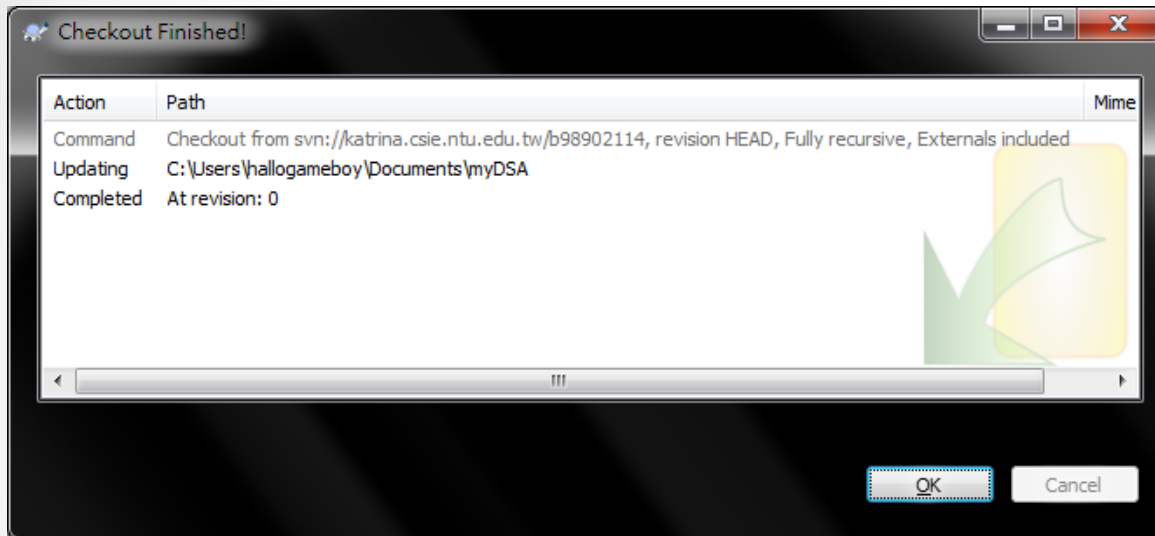
Checkout Your Files



輸入之前拿到的account, password
按下OK

Hint: 勾選**Save authentication**, 否則每做一個動作就會要求輸入一次帳號密碼

Checkout Your Files

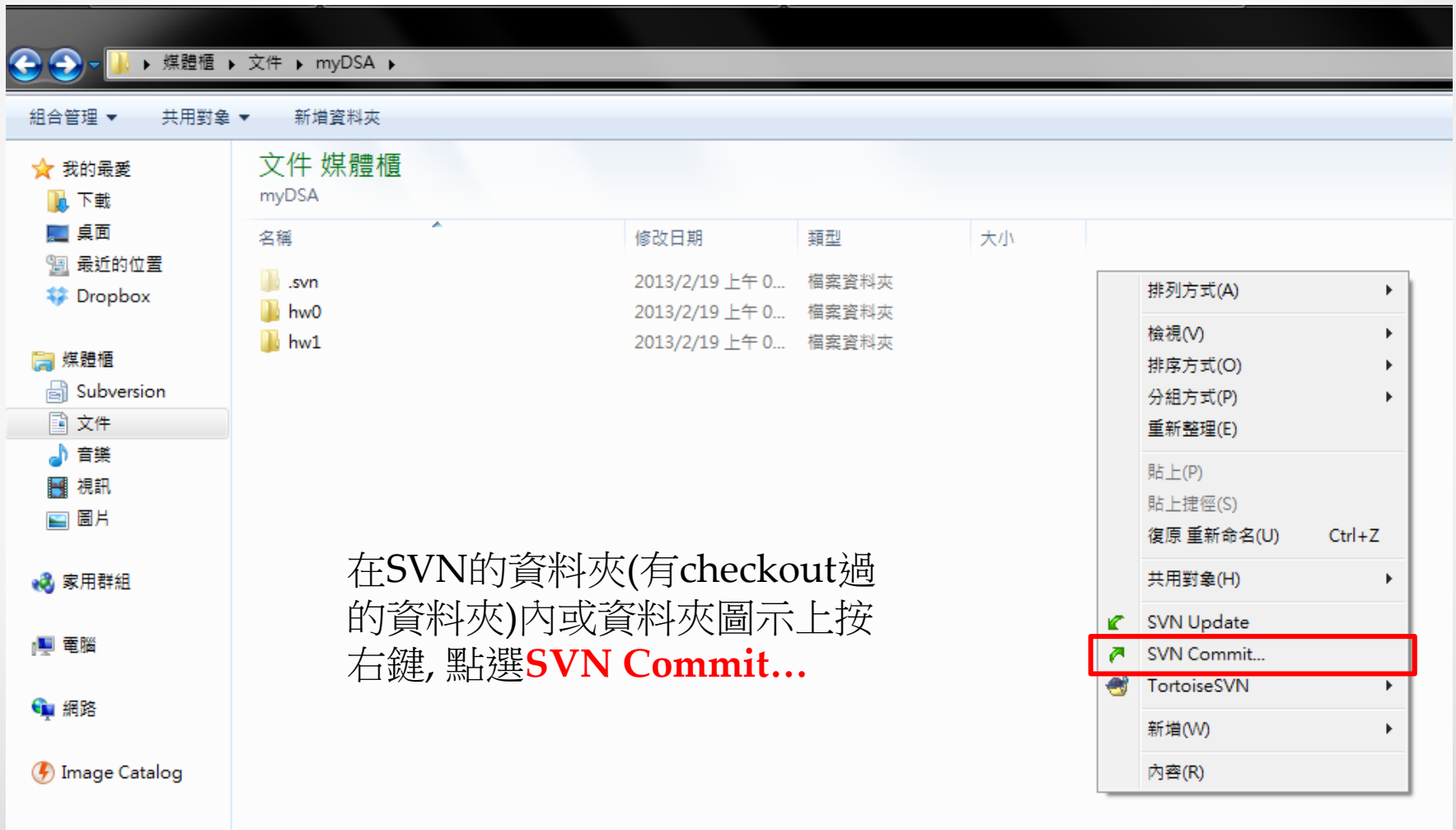


Commit Edited Files

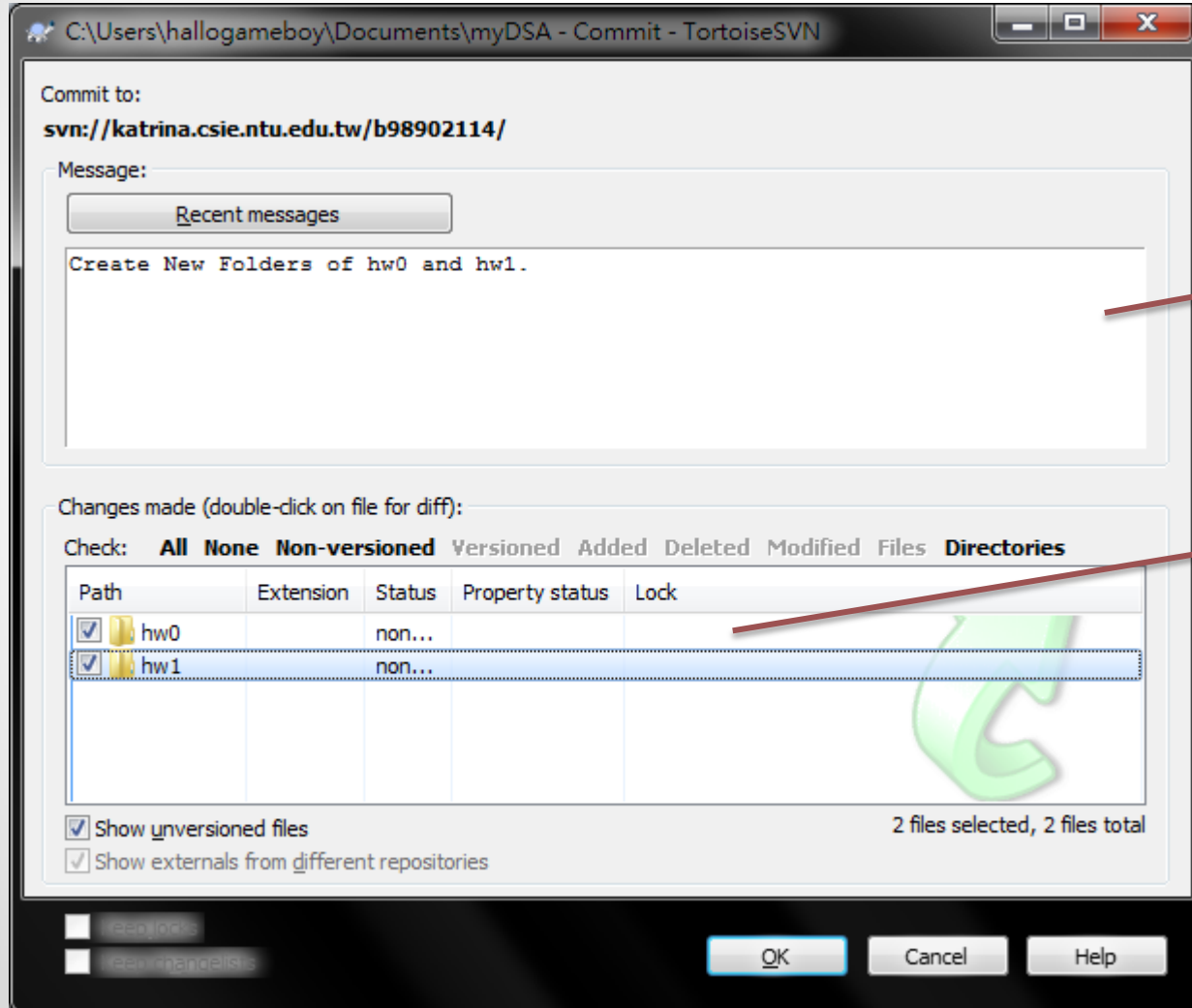


第一次checkout的資料夾是空的

Commit Edited Files



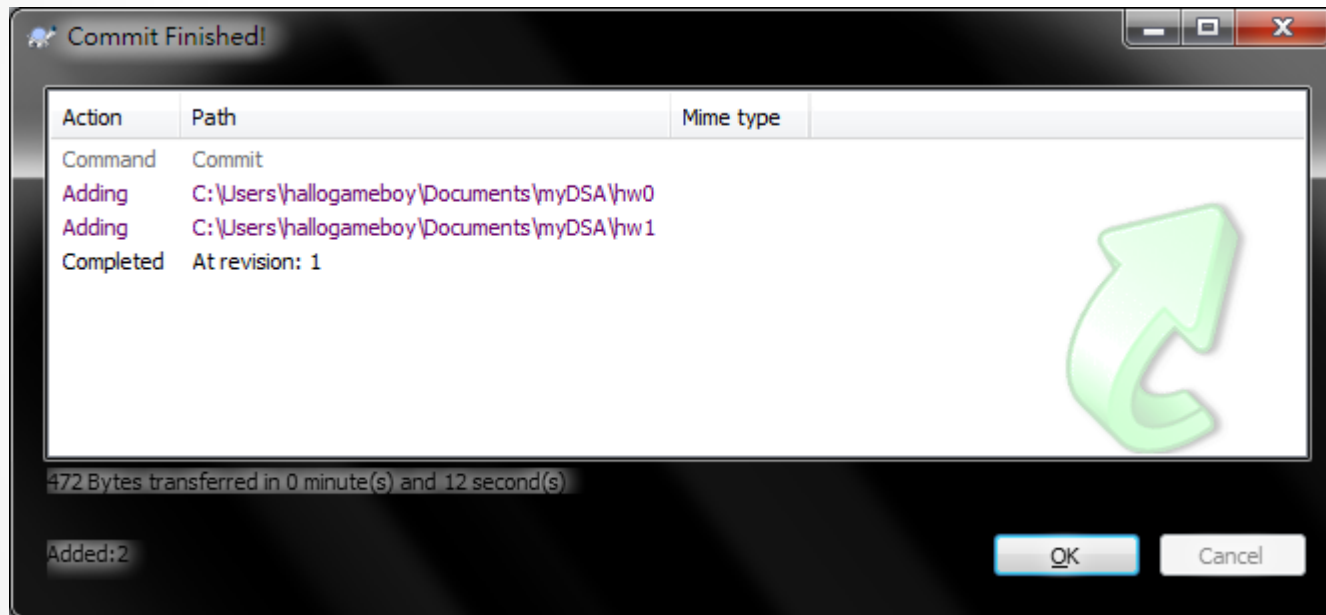
Commit Edited Files



這一欄是輸入將要上傳版本的描述(強烈建議上傳時加上描述)

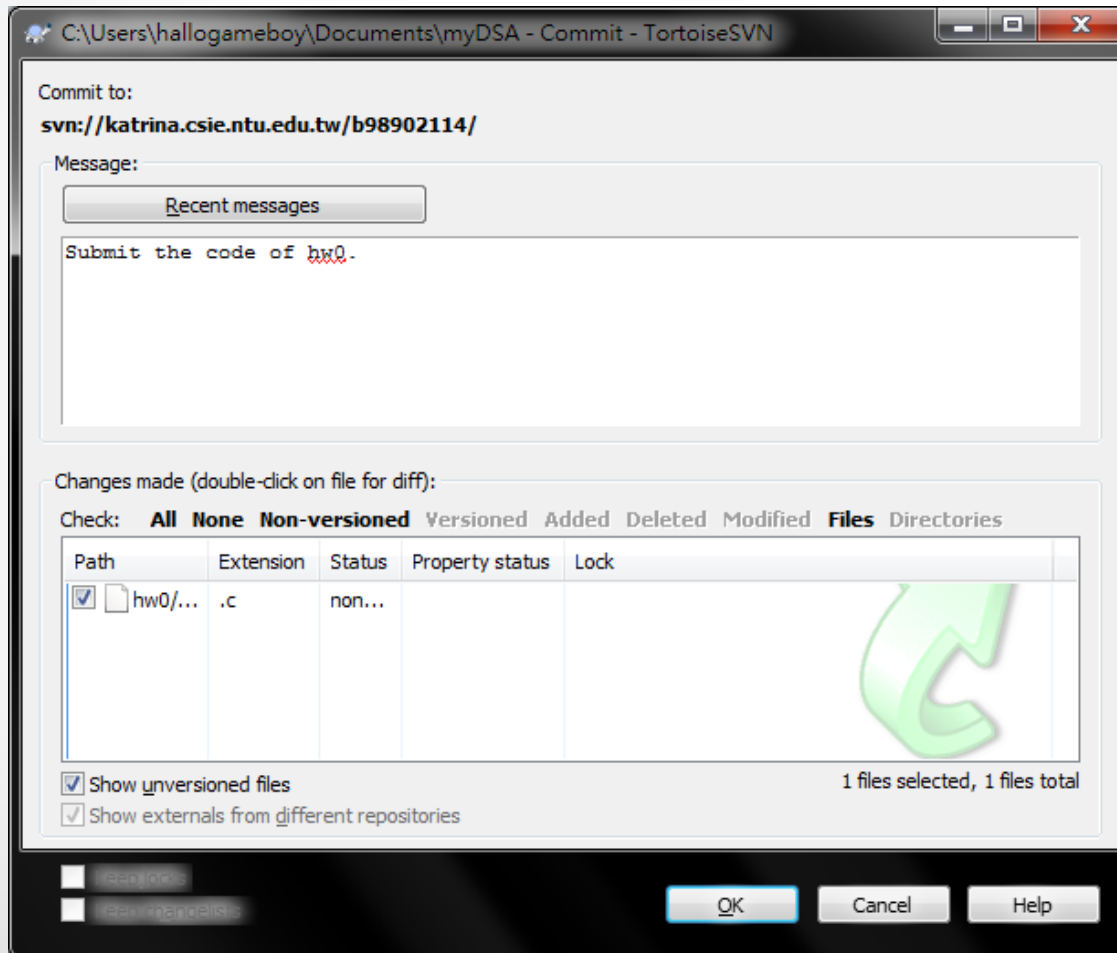
這一欄會顯示你變動過的檔案,勾選確定要更新的檔案,按下OK

Commit Edited Files



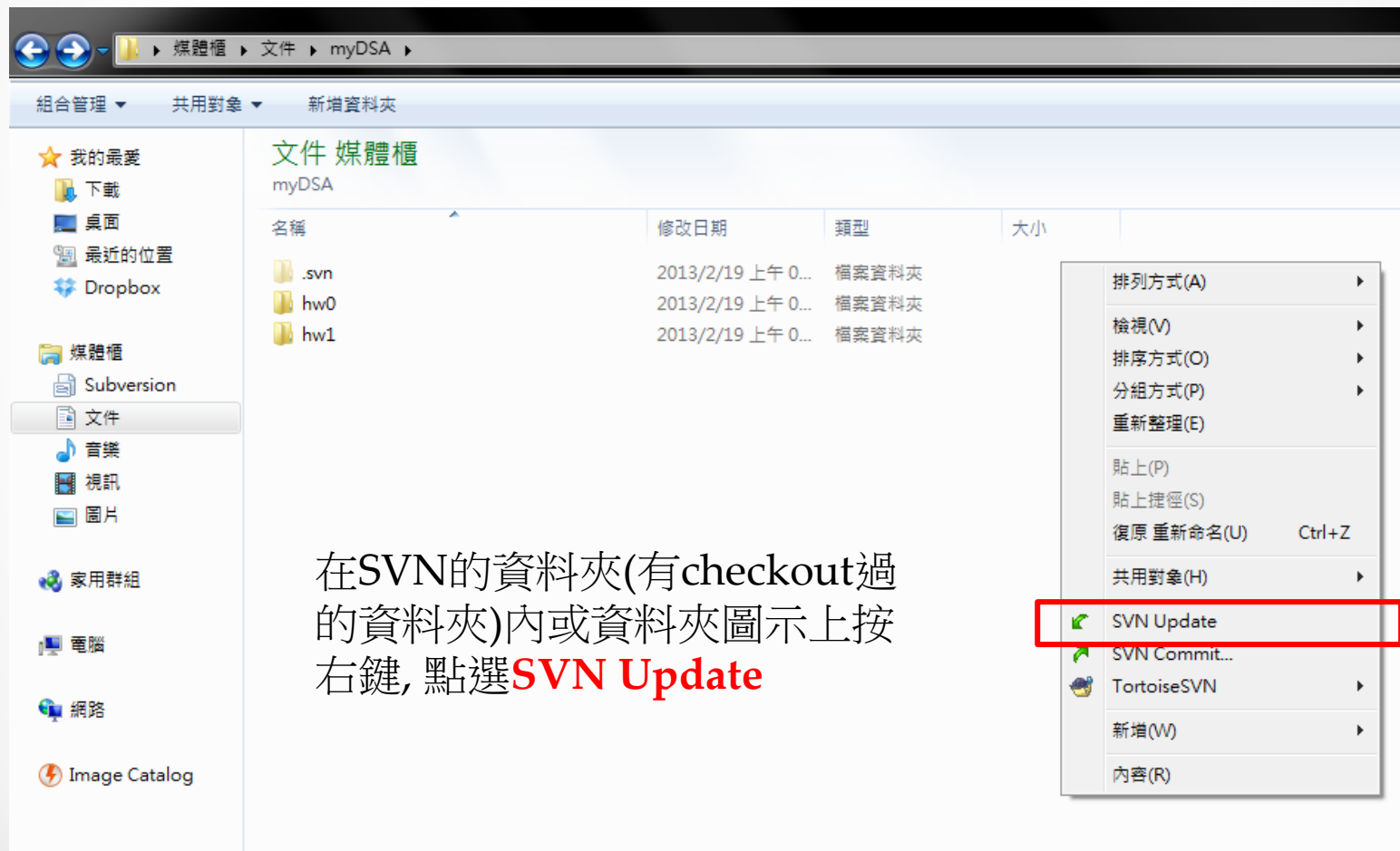
完成!!

Commit Edited Files

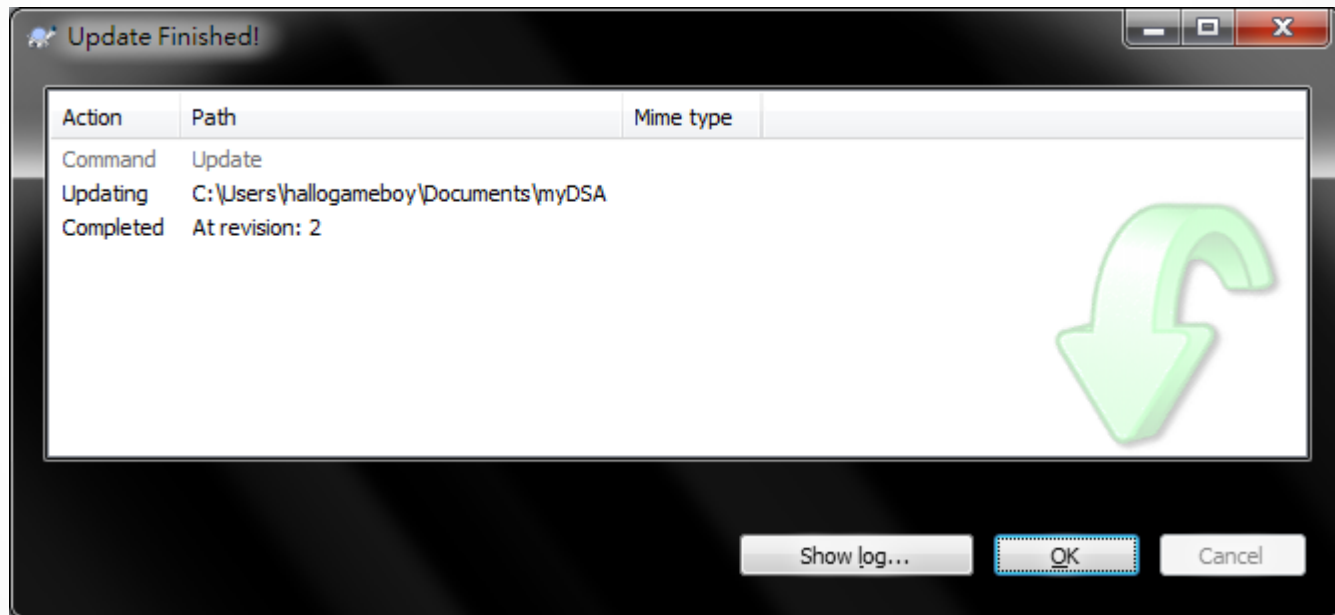


作業檔案也是用相同的方式commit.

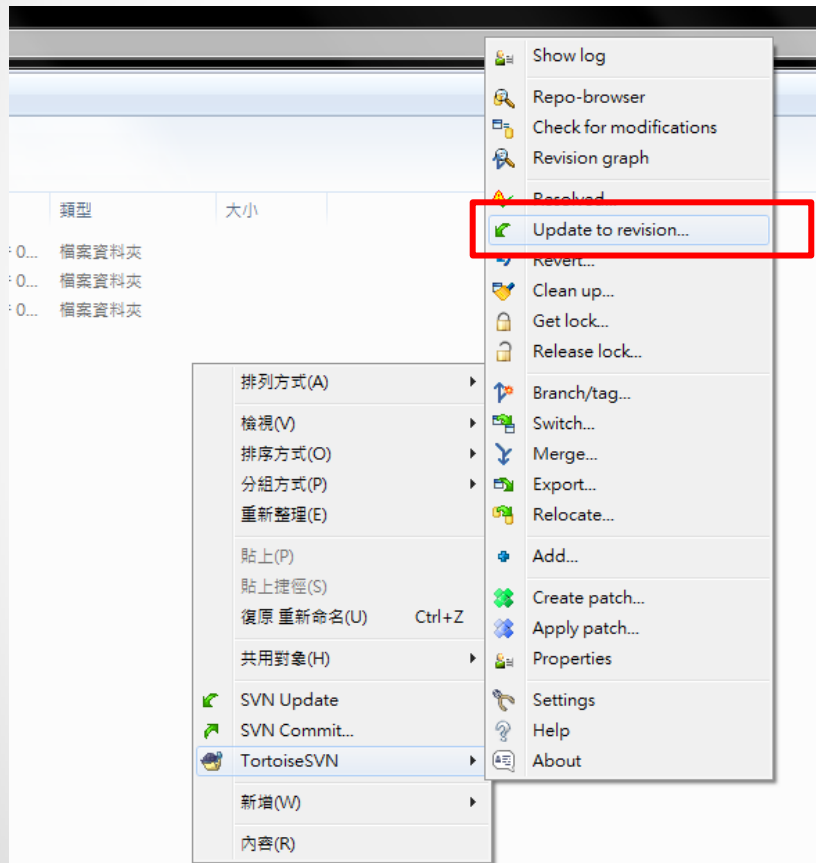
Update to the Latest Version



Update to the Latest Version

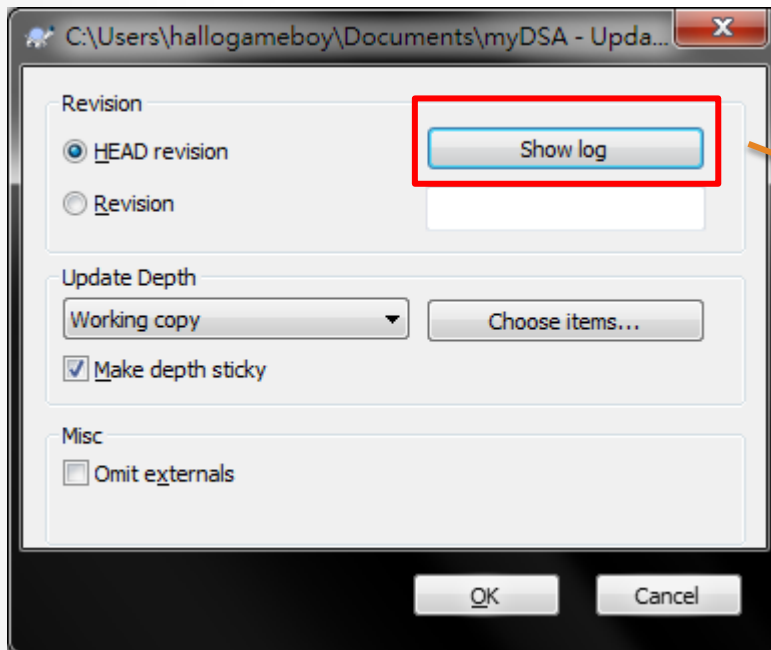


Update to Previous Versions



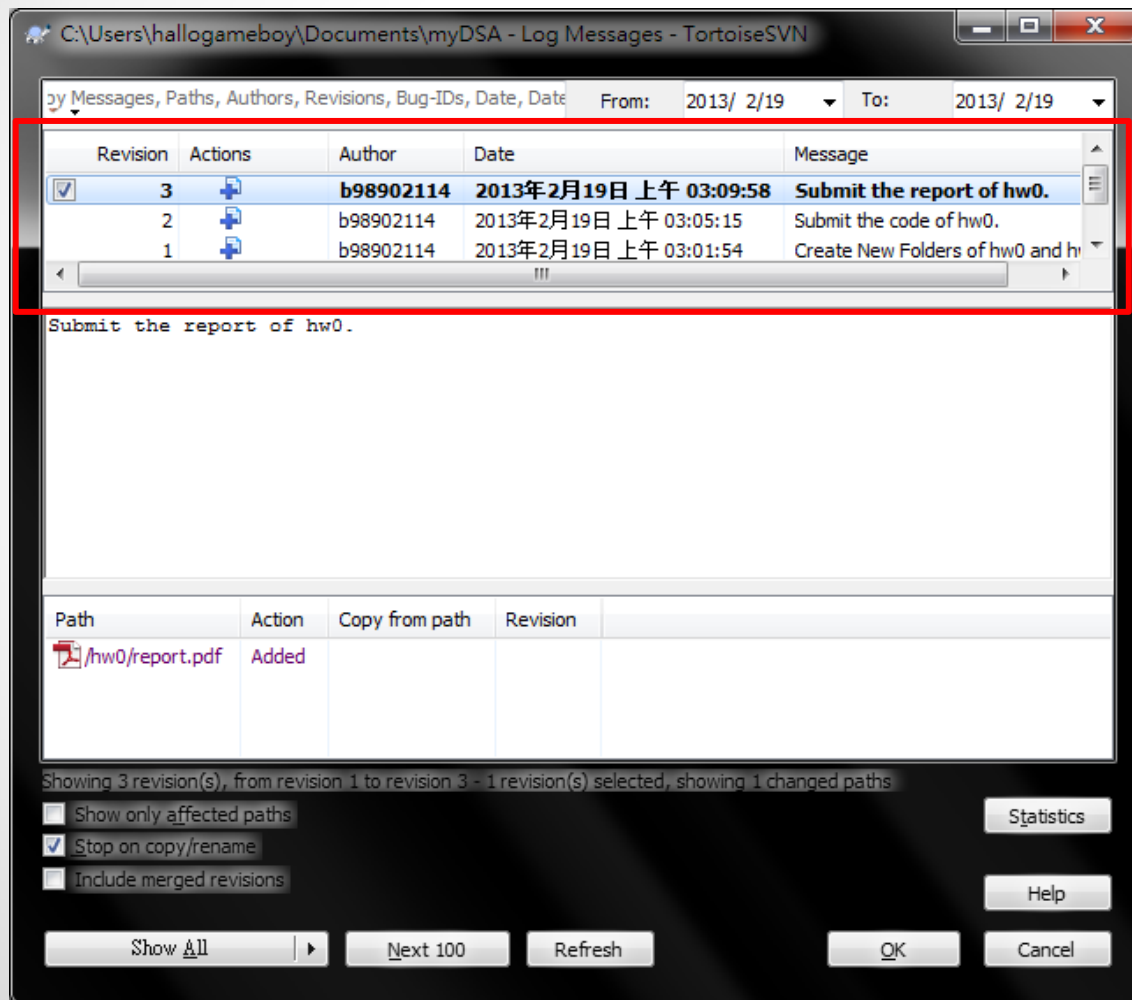
在SVN的資料夾(有checkout過的資料夾)內或資料夾圖示上按右鍵, 點選
TortoiseSVN → Update to revision...

Update to Previous Versions



點選 **Show log**
列出所有曾經上傳過的版本

Update to Previous Versions

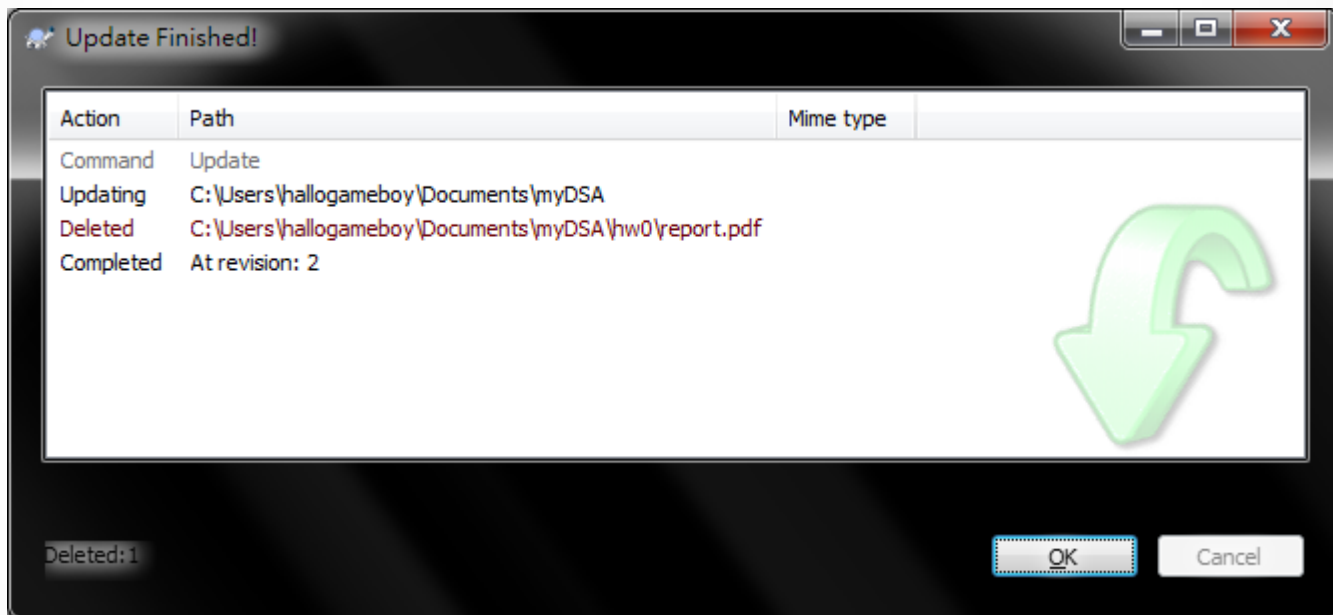


從眾多歷史資料中挑選出你要回溯的版本, 按下OK確認



Hint: 在上傳時加入描述, 可以更有效率地找到想要的版本

Update to Previous Versions



SVN Commands

- **Checkout**

- svn checkout svn://katrina.csie.ntu.edu.tw/b98902114
 - Type your account & password

- **Add file/folder**

- svn add [file/folder name]

- **Commit file/folder**

- svn ci -m "message" [file/folder name](指定commit那些檔案)
- svn ci -m "message" (有修改/新增/刪除的都commit)

- **Update to the latest version**

- svn up

- **Update to previous versions**

- svn up -r[版本]

- **Look up committed messages**

- svn log

More references about SVN commands and scripts:
<http://www.yolinux.com/TUTORIALS/Subversion.html>

Any Questions?

