

# EGit Basics (in Eclipse Juno)

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# EGit

- Eclipse Team provider for the Git version control system
- On top of the JGit Java implementation of Git

# Configuration

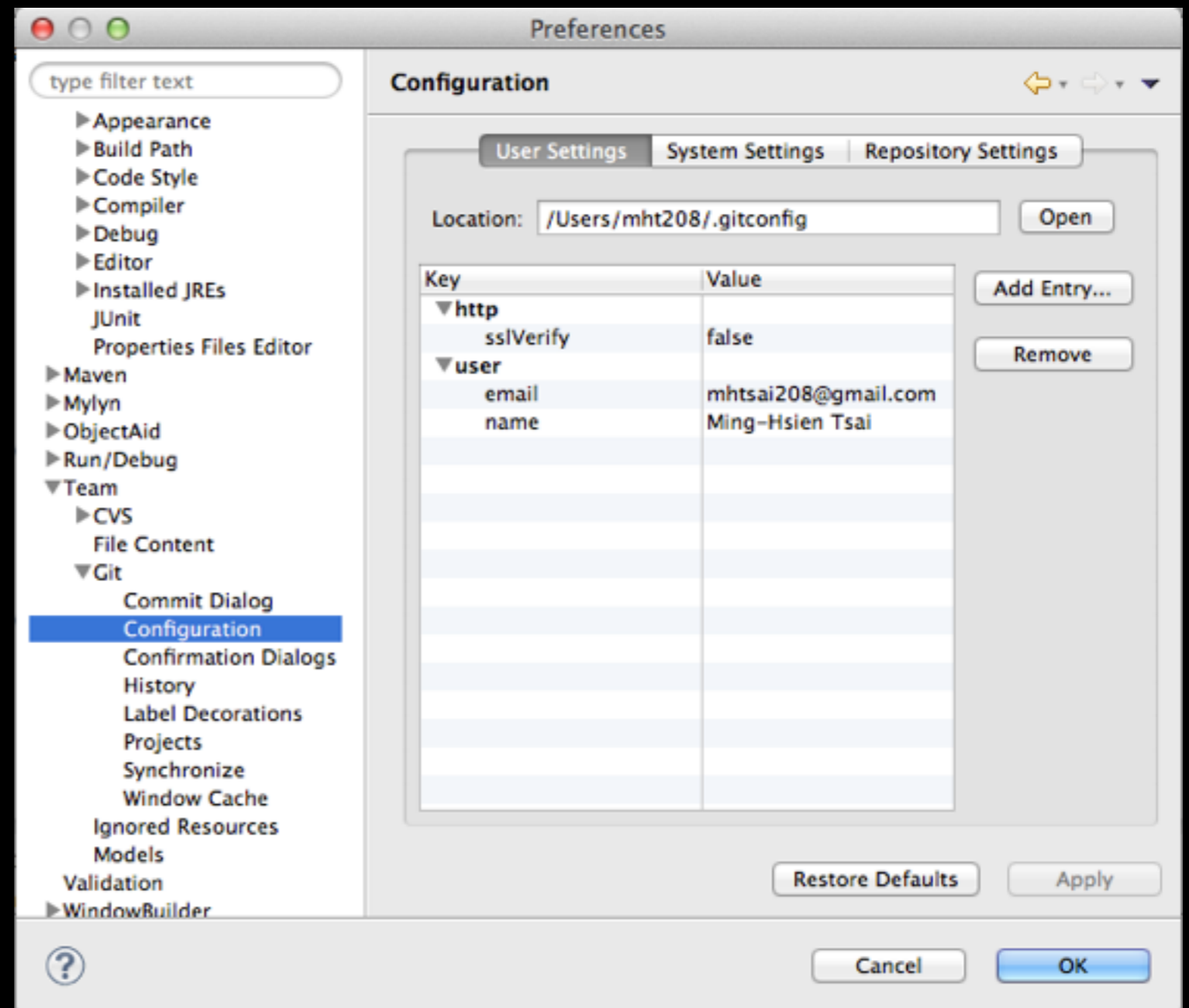
*Eclipse / Preferences... (⌘,) )*

*Window / Preferences*

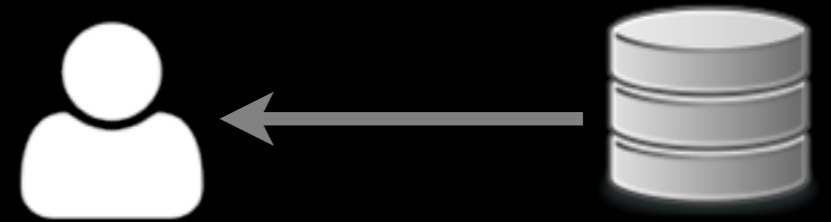
user.name = <NAME>

user.email = <EMAIL>

http.sslVerify = false (optional)



# Clone



*File / Import...*

*Git / Projects from Git*

*URI*

...

*Import existing projects*

A screenshot of a software interface window titled "Import Projects from Git". The window has a title bar with standard OS window controls (red, yellow, green buttons). The main content area is divided into sections: "Source Git Repository" with a sub-instruction "Enter the location of the source repository." and a small Git logo; "Location" with fields for "URI" (https://sdm.im.ntu.edu.tw/git/sdm2012/ShapeDrawing.git), "Host" (sdm.im.ntu.edu.tw), and "Repository path" (/git/sdm2012/ShapeDrawing.git), plus a "Local File..." button; "Connection" with a "Protocol" dropdown set to "https" and an empty "Port" field; and "Authentication" with "User" (mht208), "Password" (masked with dots), and a "Store in Secure Store" checkbox.

Import Projects from Git

Source Git Repository

Enter the location of the source repository.

Location

URI:

Host:

Repository path:

Connection

Protocol:

Port:

Authentication

User:

Password:

Store in Secure Store

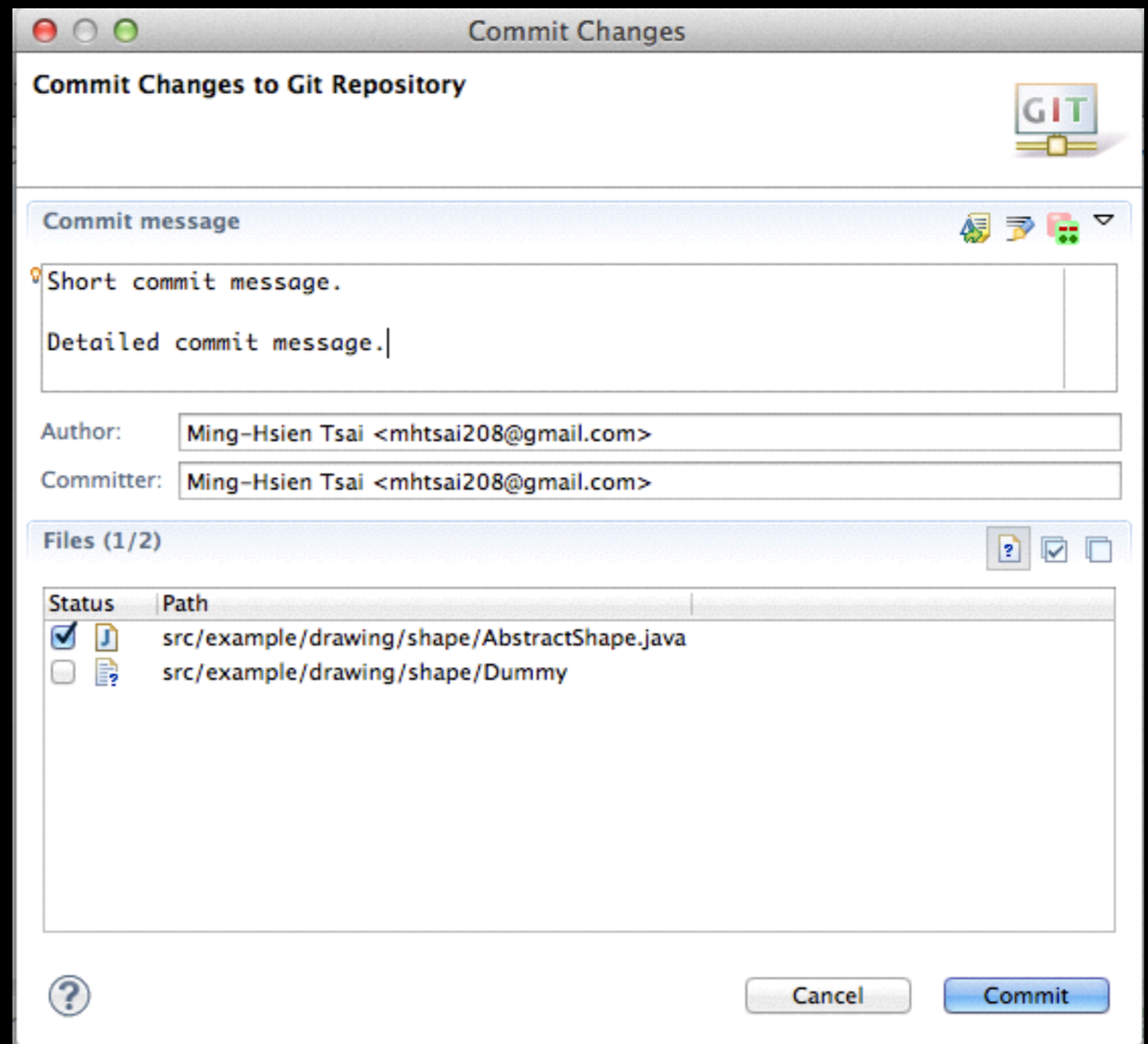
# Commit

*Popup menu / Team / Commit...*



Avoid amending pushed commits.

Check the files to include them in the commit.



# Share Projects

1. Create a Java project in Eclipse:

*File / New / Java Project*

2. Create a local Git repository:

*Project popup menu / Team / Share Project... / Git / ...*

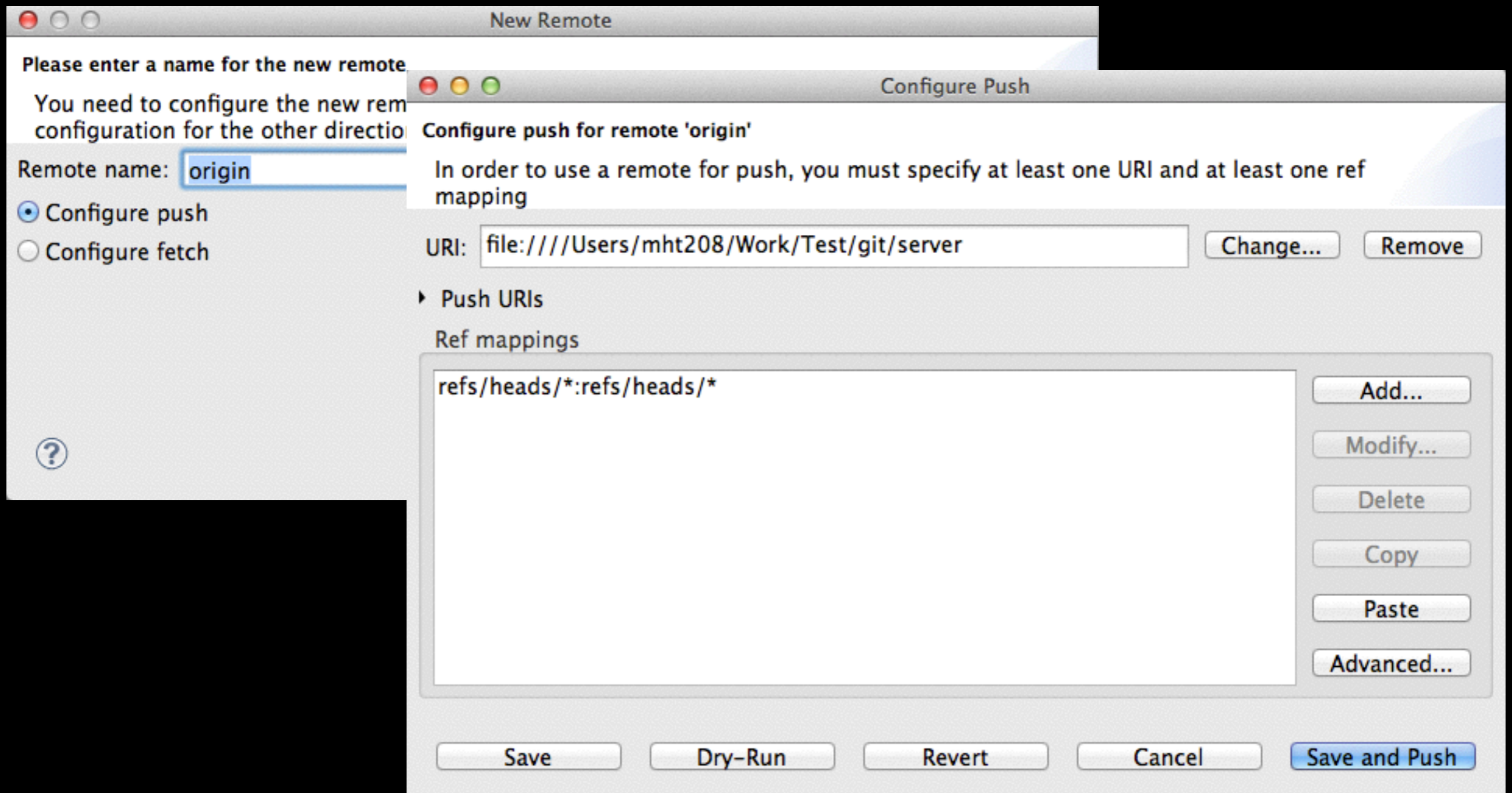
3. Make an initial commit.

4. Push to the remote repository:

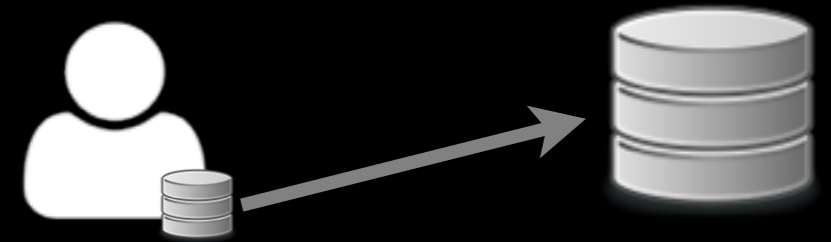
*Project popup menu / Team / Remote / Push...*

# Configure Push

*Git Repositories View / ... / Remotes / Create Remote...*  
Add the local repository and then create a remote one for it

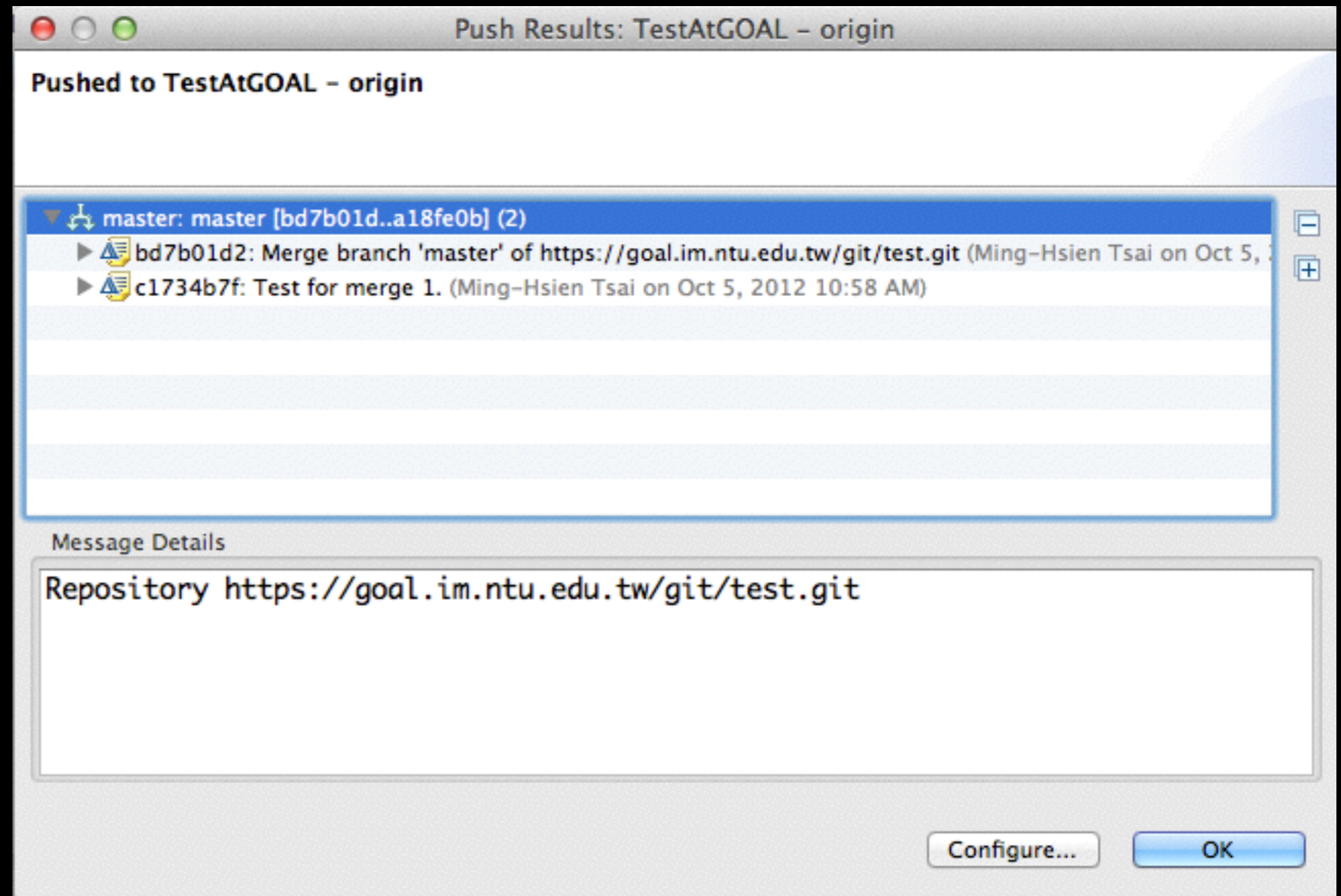


# Push



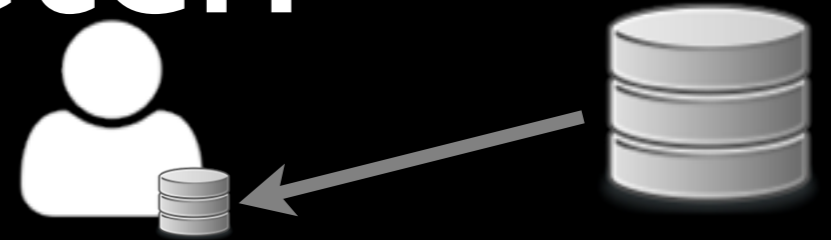
*Project popup menu / Team / Push to Upstream*

Pull before pushing

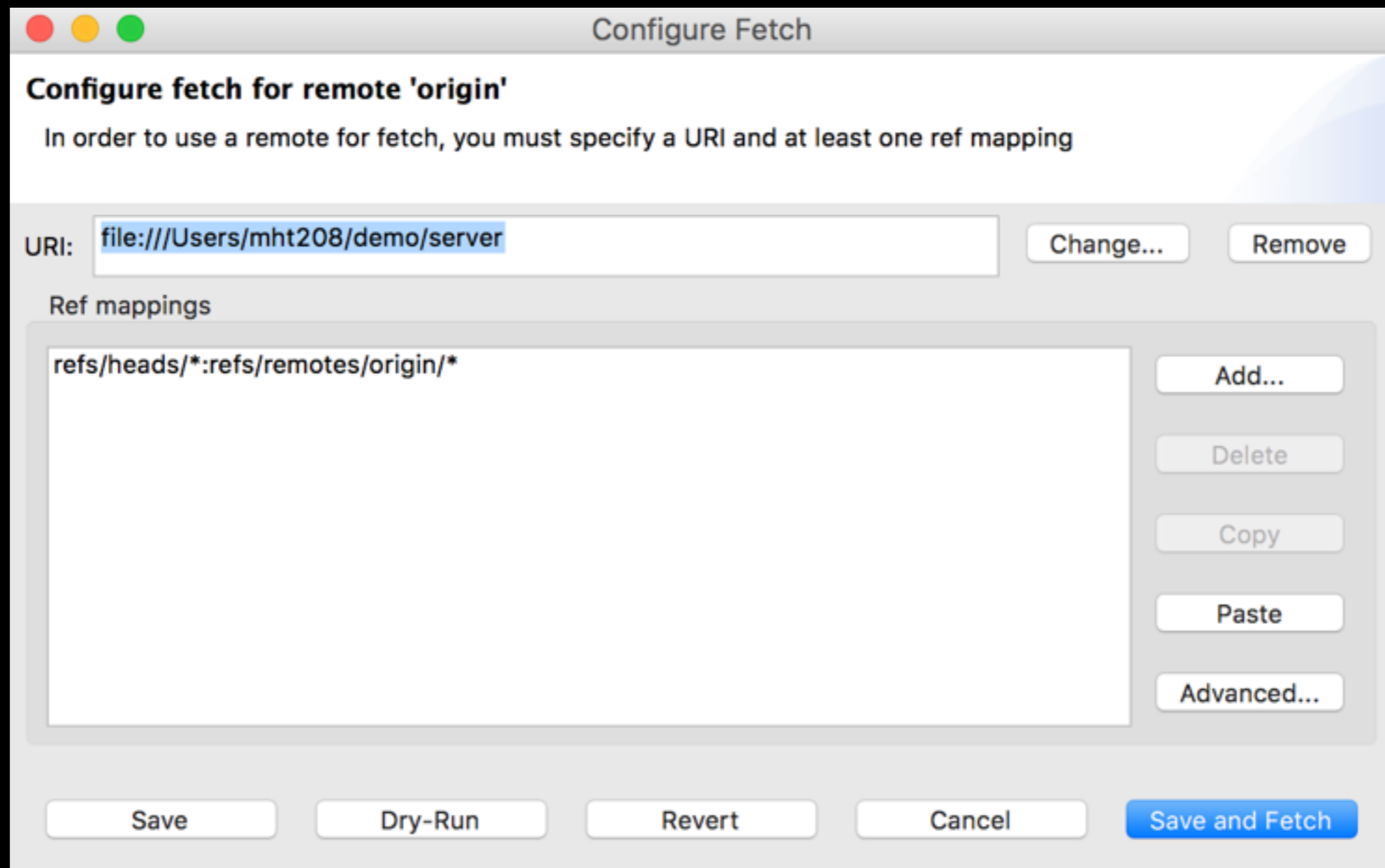




# Configure Fetch



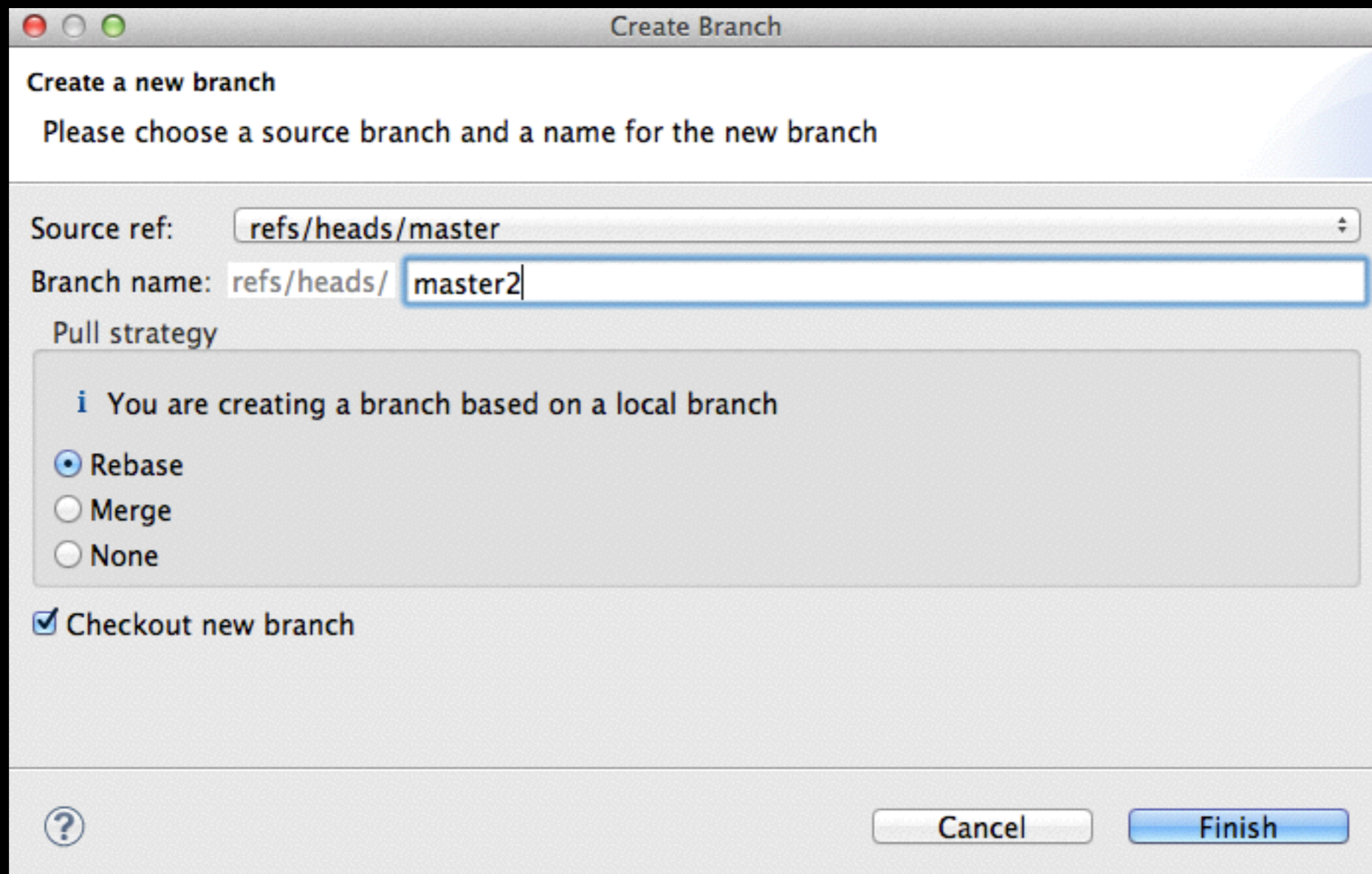
*Git Repositories View / ... / Remotes / origin popup menu /  
Configure Fetch...*



# New Branch

*Project Popup Menu / Team / Switch To / New Branch...*

Select a pull strategy

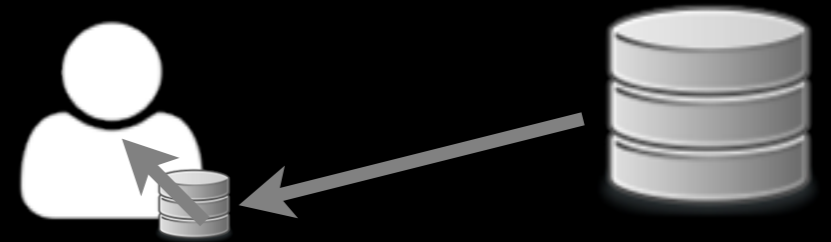


The screenshot shows a 'Create Branch' dialog box with the following fields and options:

- Source ref:** A dropdown menu showing 'refs/heads/master'.
- Branch name:** A text input field containing 'refs/heads/master2'.
- Pull strategy:** A section with an information icon and the text 'You are creating a branch based on a local branch'. It contains three radio button options: 'Rebase' (selected), 'Merge', and 'None'.
- Checkout new branch:** A checked checkbox.
- Buttons:** 'Cancel' and 'Finish' buttons at the bottom right.

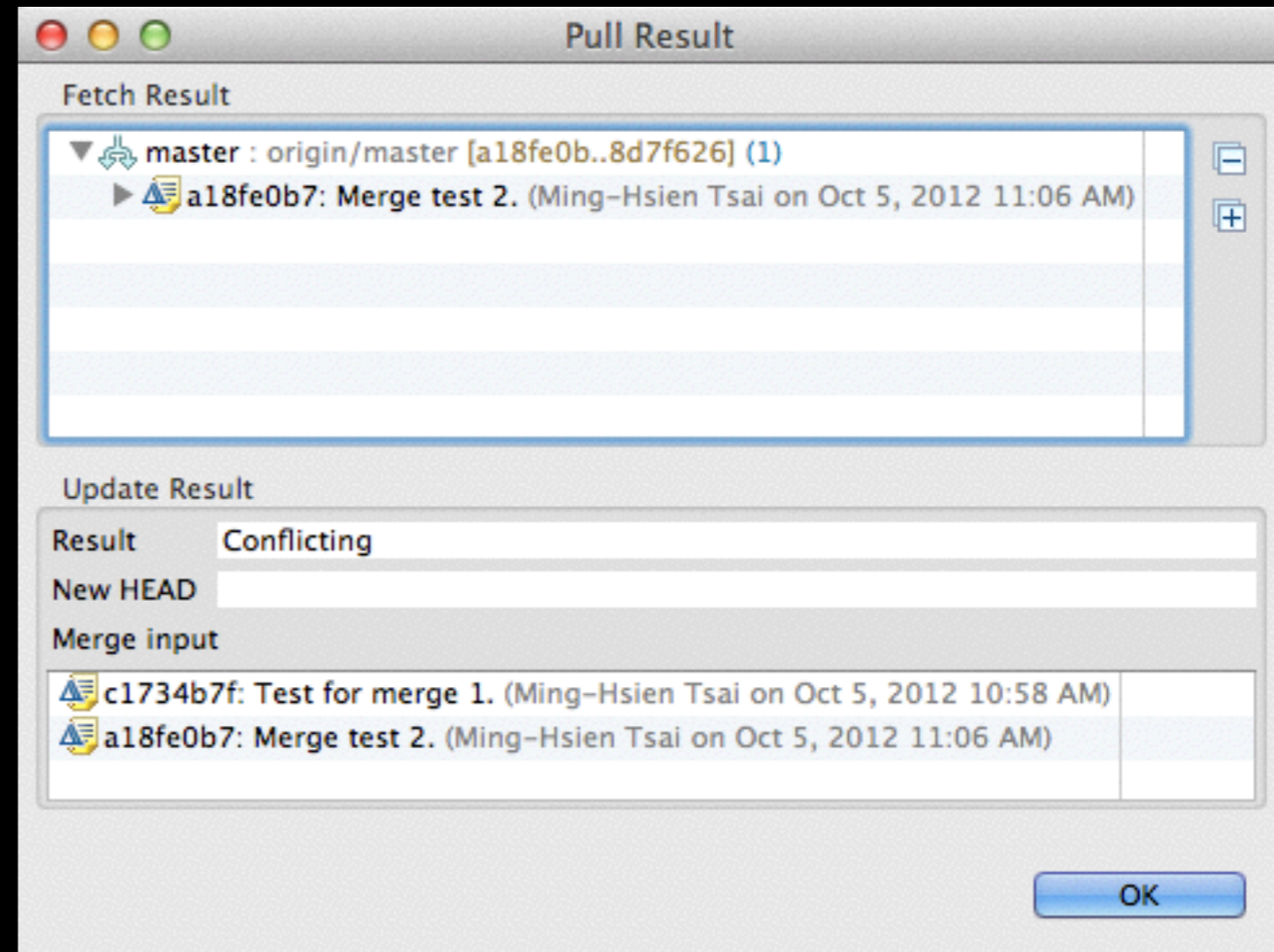
# Pull

*Project popup menu / Team / Pull*



Resolve conflicts:

1. Manually merge conflicts.  
*(File popup menu / Team / Add to Index)*
3. Commit.



local change ←  
remote change ←

```
1 <<<<<< HEAD
2 This is the aster branch.
3 =====
4 This is the mster branch.
5 >>>>>> branch 'master' of https://goal.im.ntu.edu.tw/git/test.git
```

# Reset

*Project popup menu / Team / Reset...*

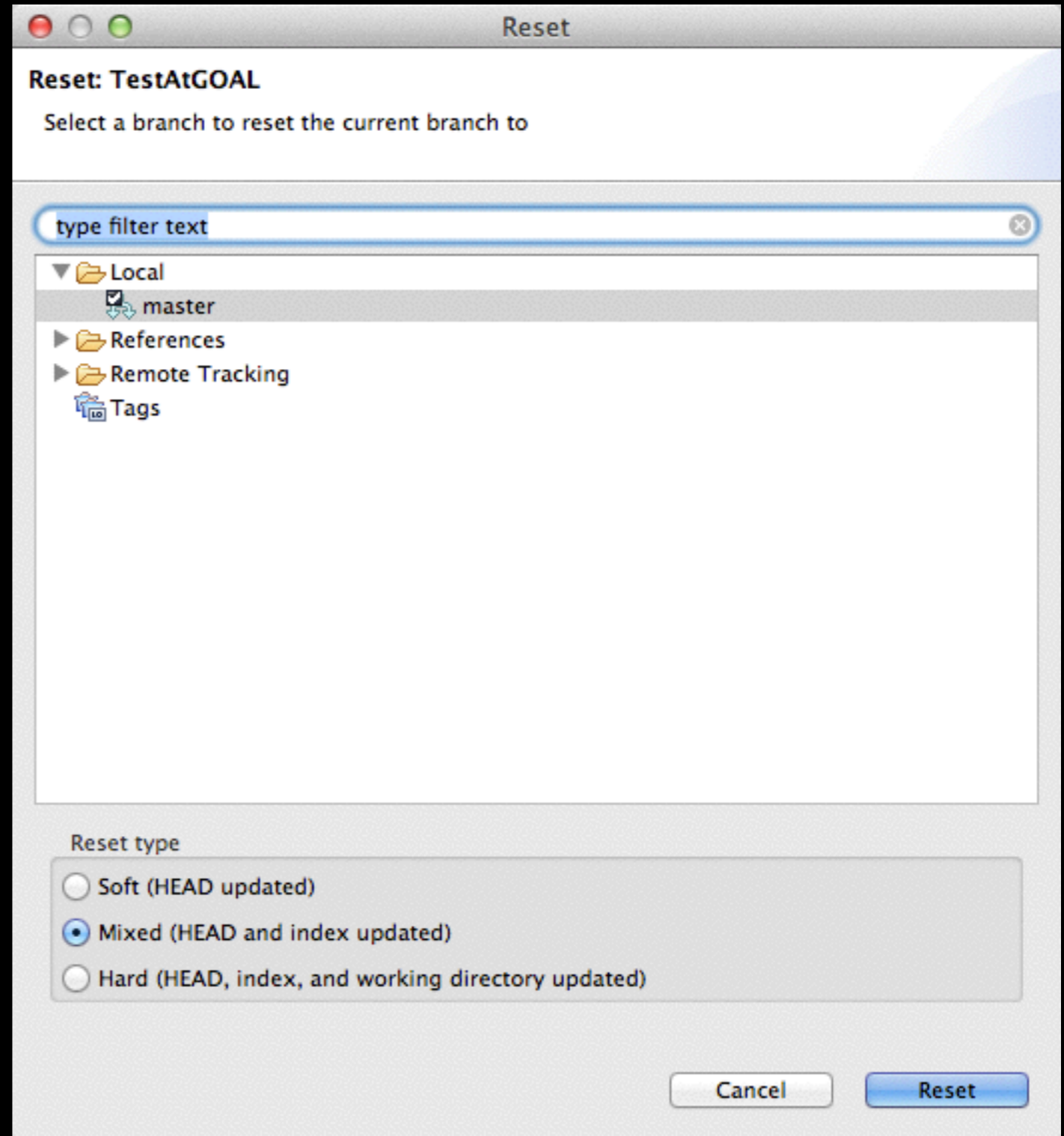
Soft (HEAD updated)

Mixed (HEAD and index updated)

Hard (HEAD, index, and working directory updated) **(be careful!)**

To replace a single file:

*File popup menu / Replace With*



# Ignore Files

Add rules to the file `.gitignore`.

<code>/bin</code>	ignore the file or folder “bin”
<code>*.class</code>	ignore all class files
<code>/doc/manual/*</code>	ignore everything in “/doc/manual”
<code>!/doc/manual/manual.tex</code>	keep the file “/doc/manual/manual.tex”

# Others

*Project popup menu / Team / Switch To*

*Project popup menu / Team / Merge...*

*Project popup menu / Team / Rebase...*

*Fetch → Rebase (→ Resolve Conflicts → Add to Index → Rebase Continue)*

*Git Repositories View → Popup menu → Stash Changes*