

# 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

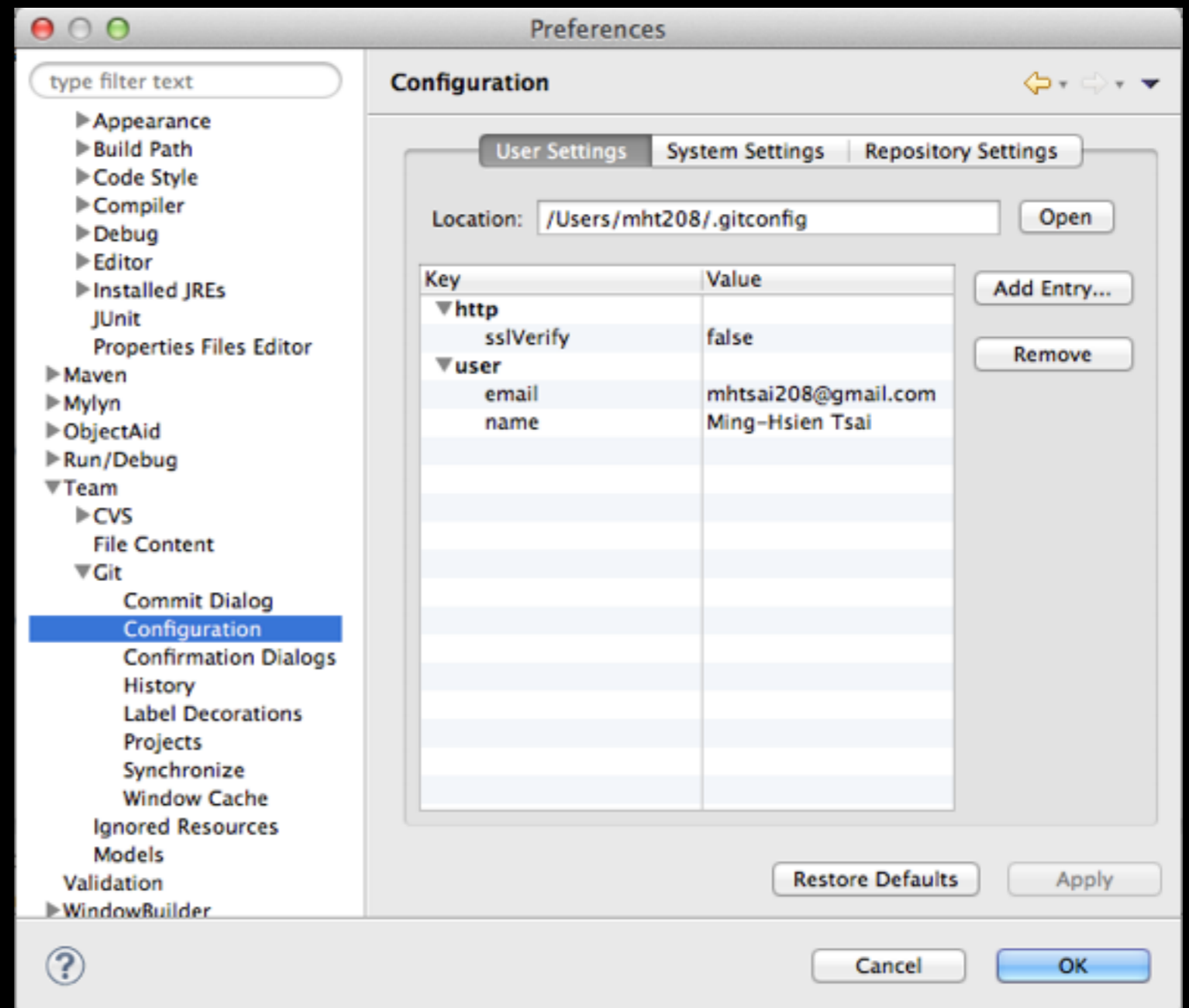
*Eclipse / Preferences... (⌘,) )*

*Window / Preferences*

`user.name = <NAME>`

`user.email = <EMAIL>`

`http.sslVerify = false` (optional)



# Clone

*File / Import...*

*Git / Projects from Git*

*URI*

...

*Import existing projects*

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:

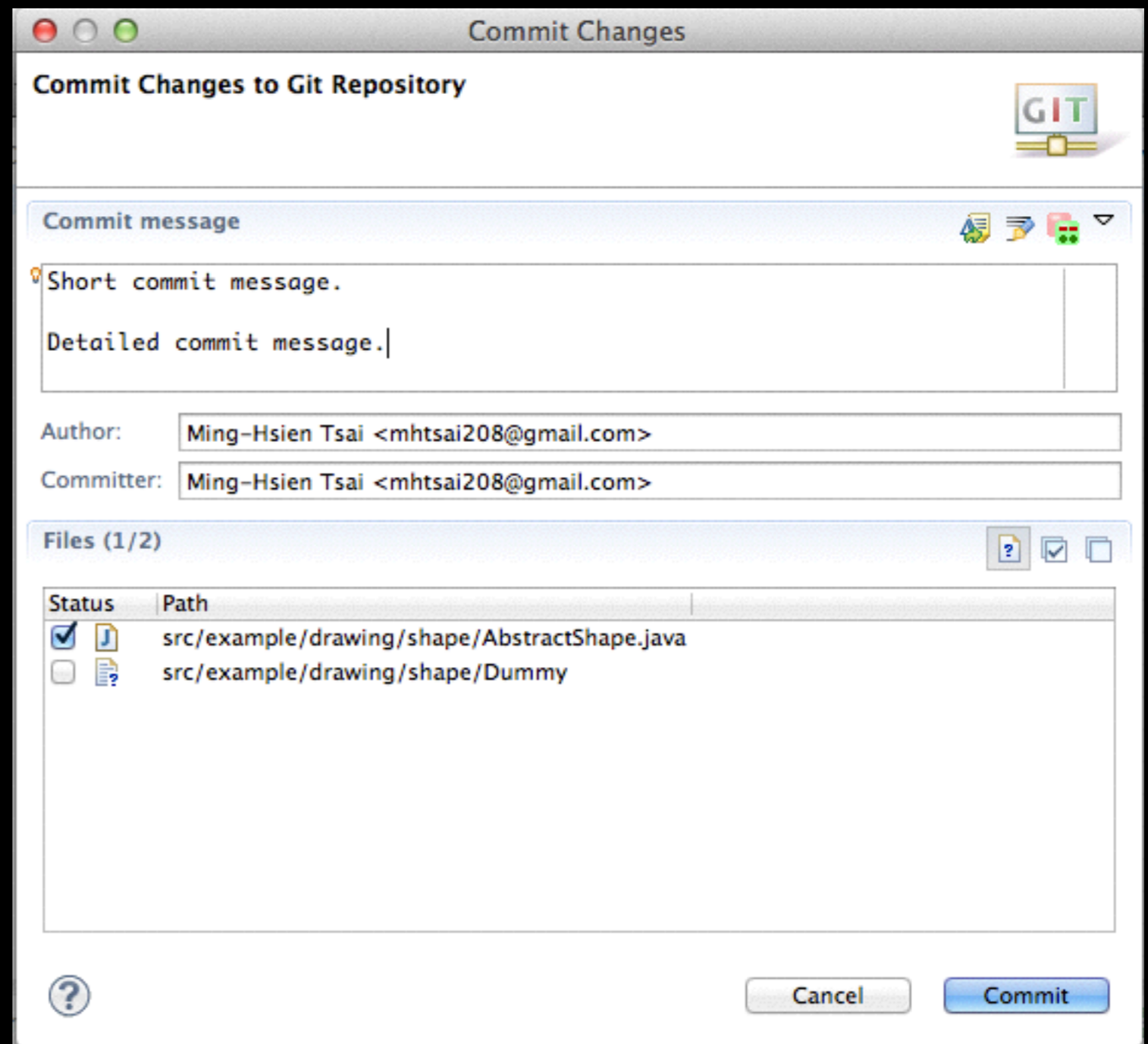
Store in Secure Store

# 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 / ...*

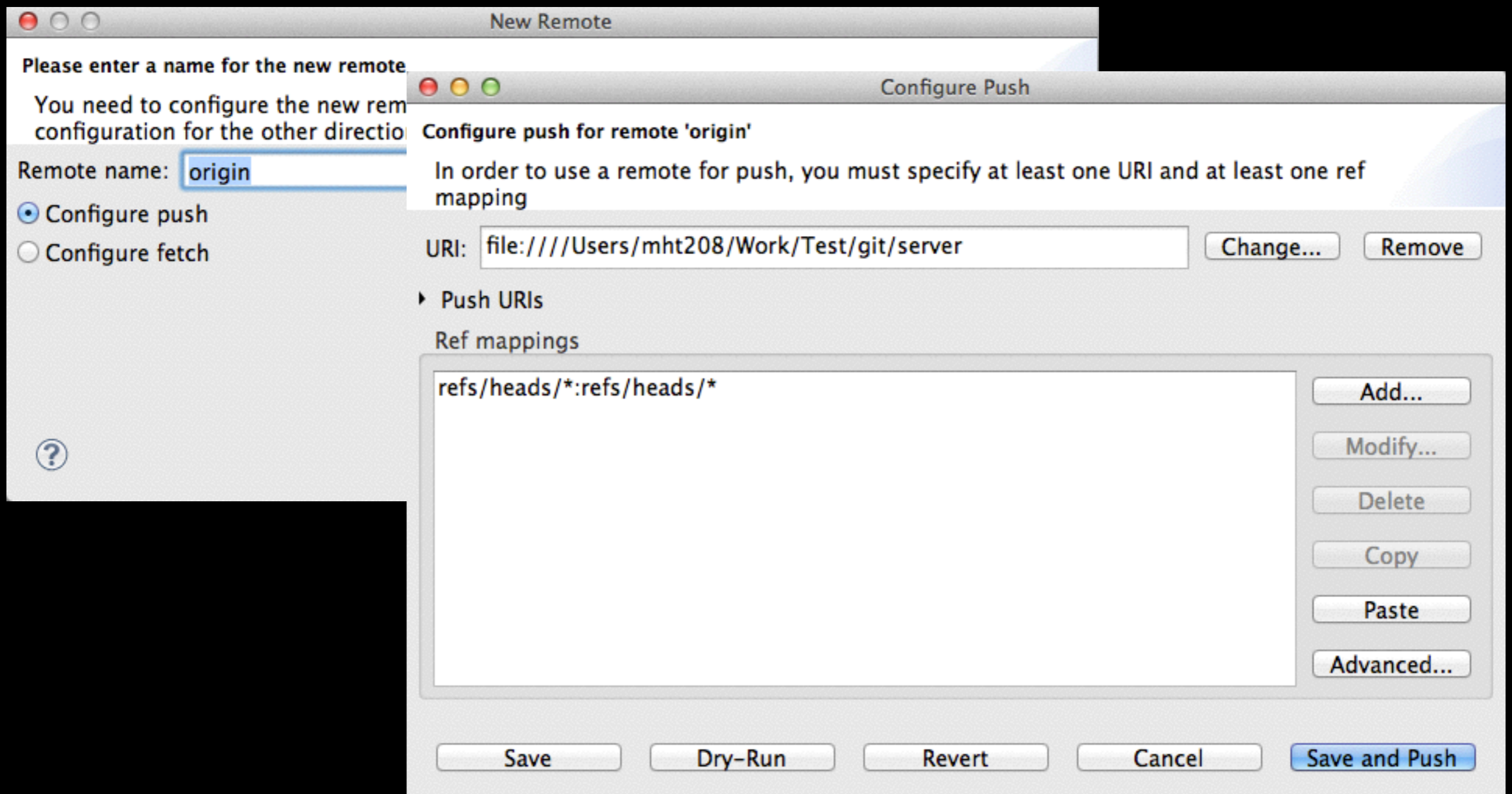
3. Make an initial commit.

4. Push to the remote repository:

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

# Configure Push

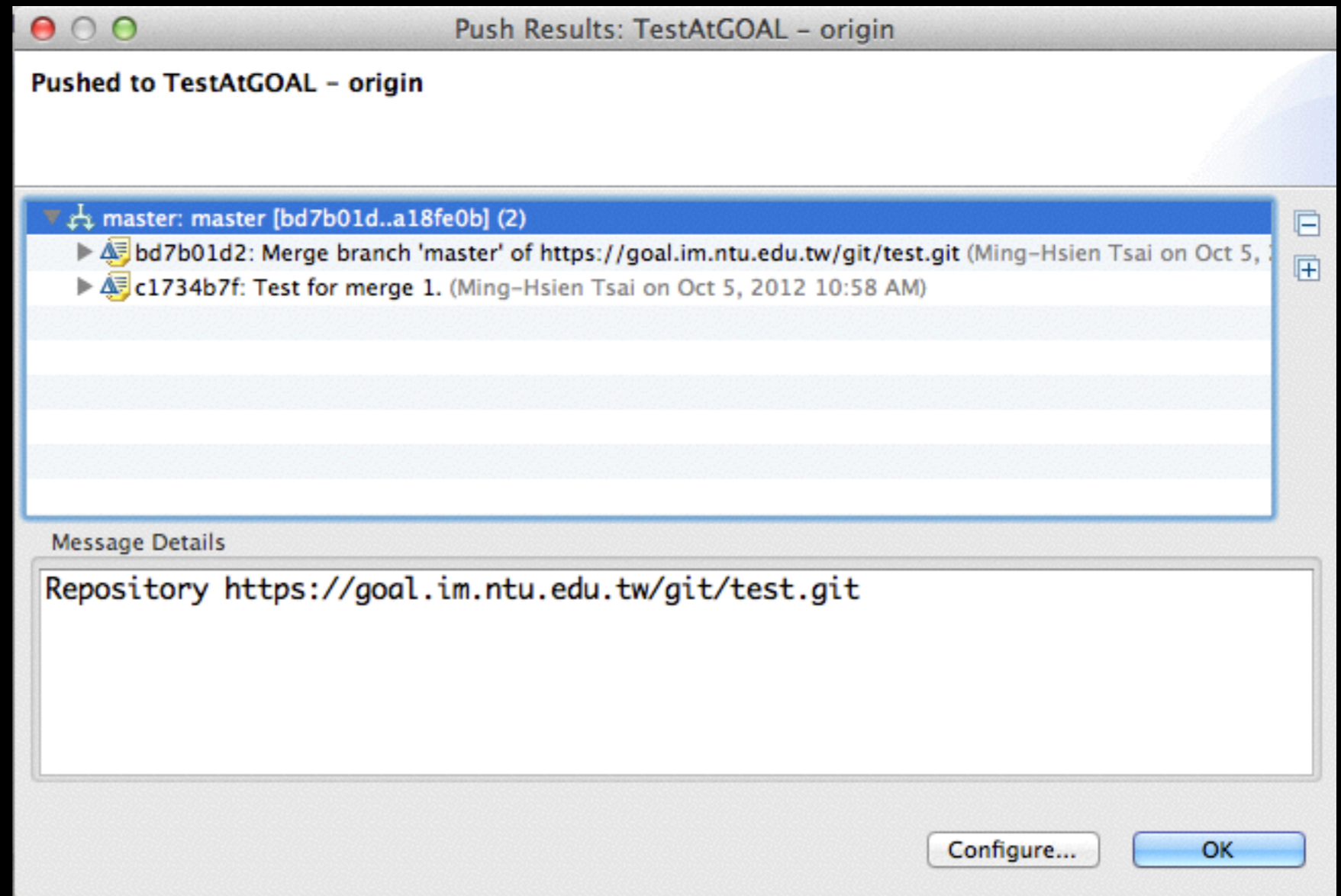
*Git Repositories View / ... / Remotes / Create Remote...*  
Add the local repository and then create a remote one for it



# Push

*Project popup menu / Team / Push to Upstream*

Pull before pushing

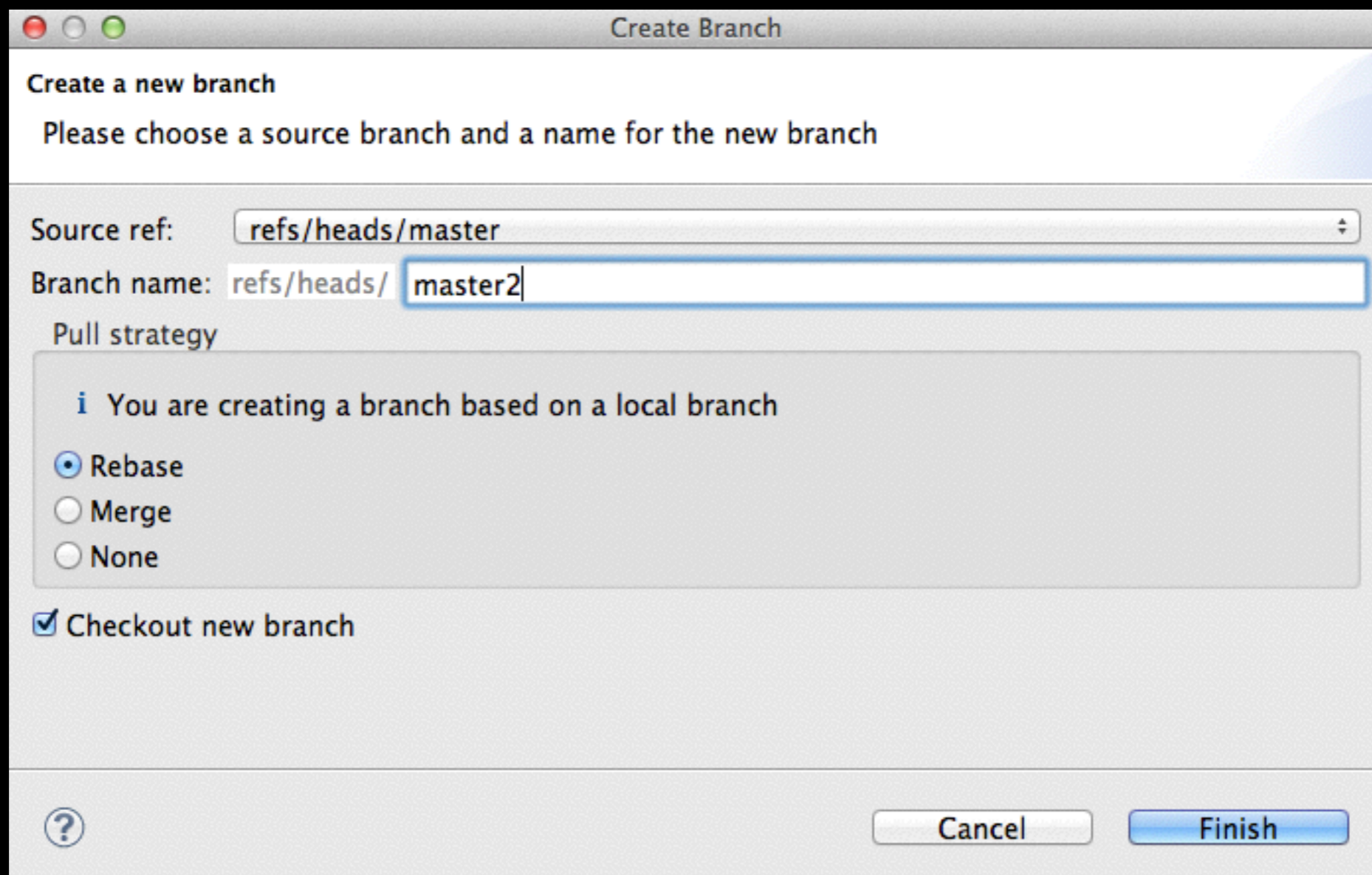




# Configure Pull

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

Select a pull strategy



Create Branch

Create a new branch

Please choose a source branch and a name for the new branch

Source ref: refs/heads/master

Branch name: refs/heads/master2

Pull strategy

**i** You are creating a branch based on a local branch

Rebase

Merge

None

Checkout new branch

?

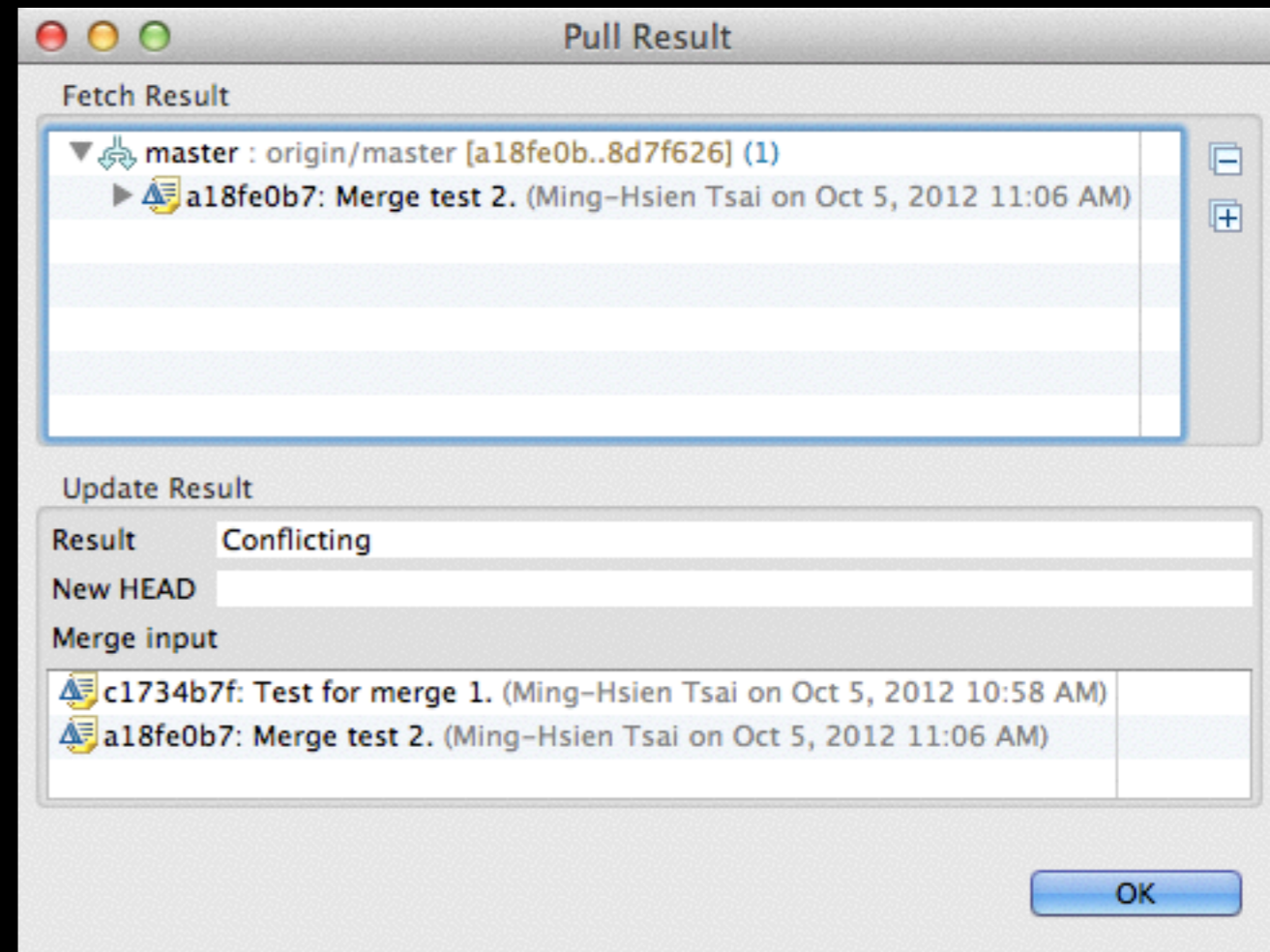
Cancel Finish

# Pull

*Project popup menu / Team / Pull*

Resolve conflicts:

1. Manually merge conflicts.  
*(File popup menu / Team / Add to Index)*
2. Stage the files containing conflicts.
3. Commit.



```
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
```

local change ←

remote change ←

# Reset

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

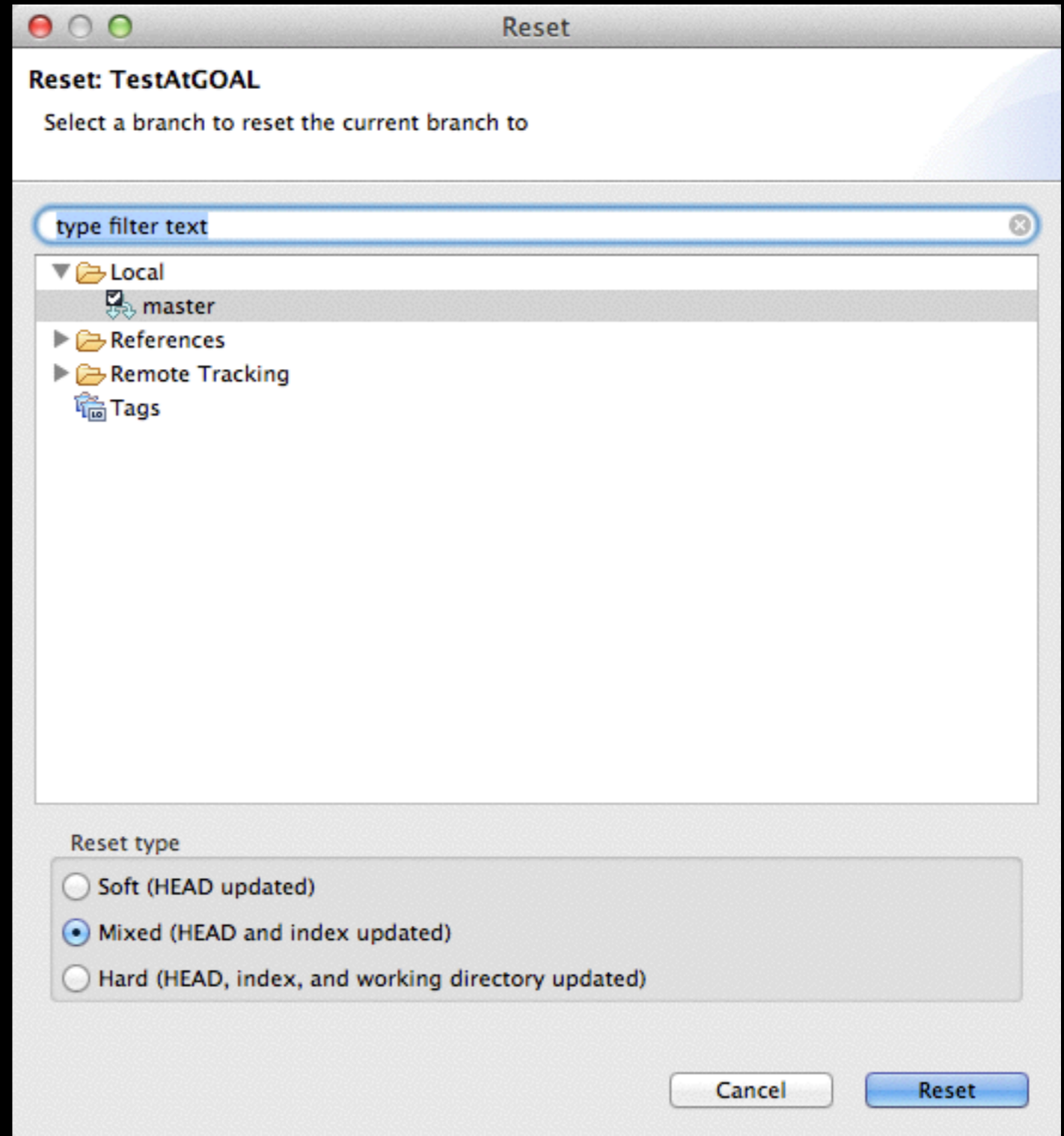
Soft (HEAD updated)

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*