

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

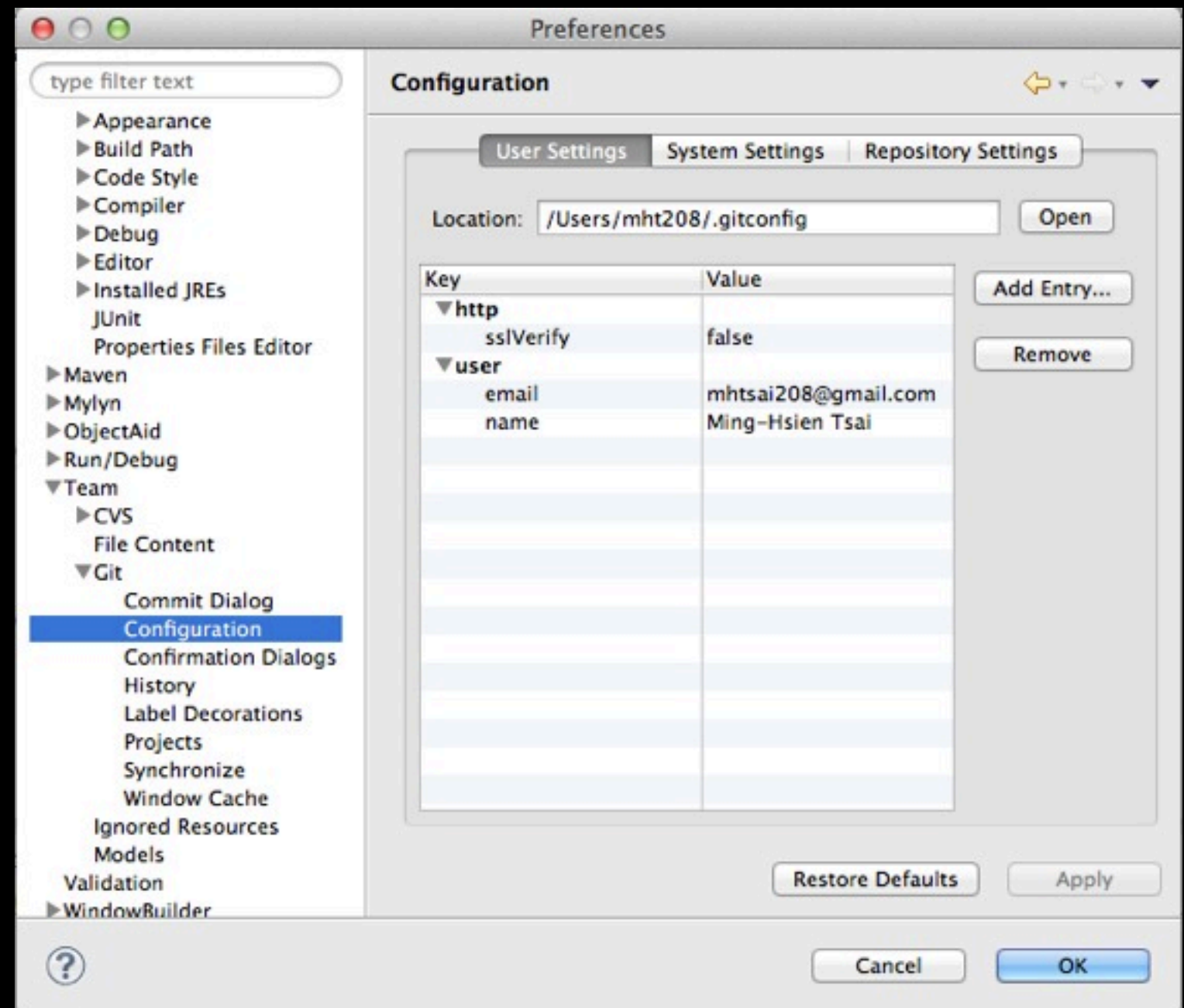
Eclipse / Preferences... (⌘,))

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:

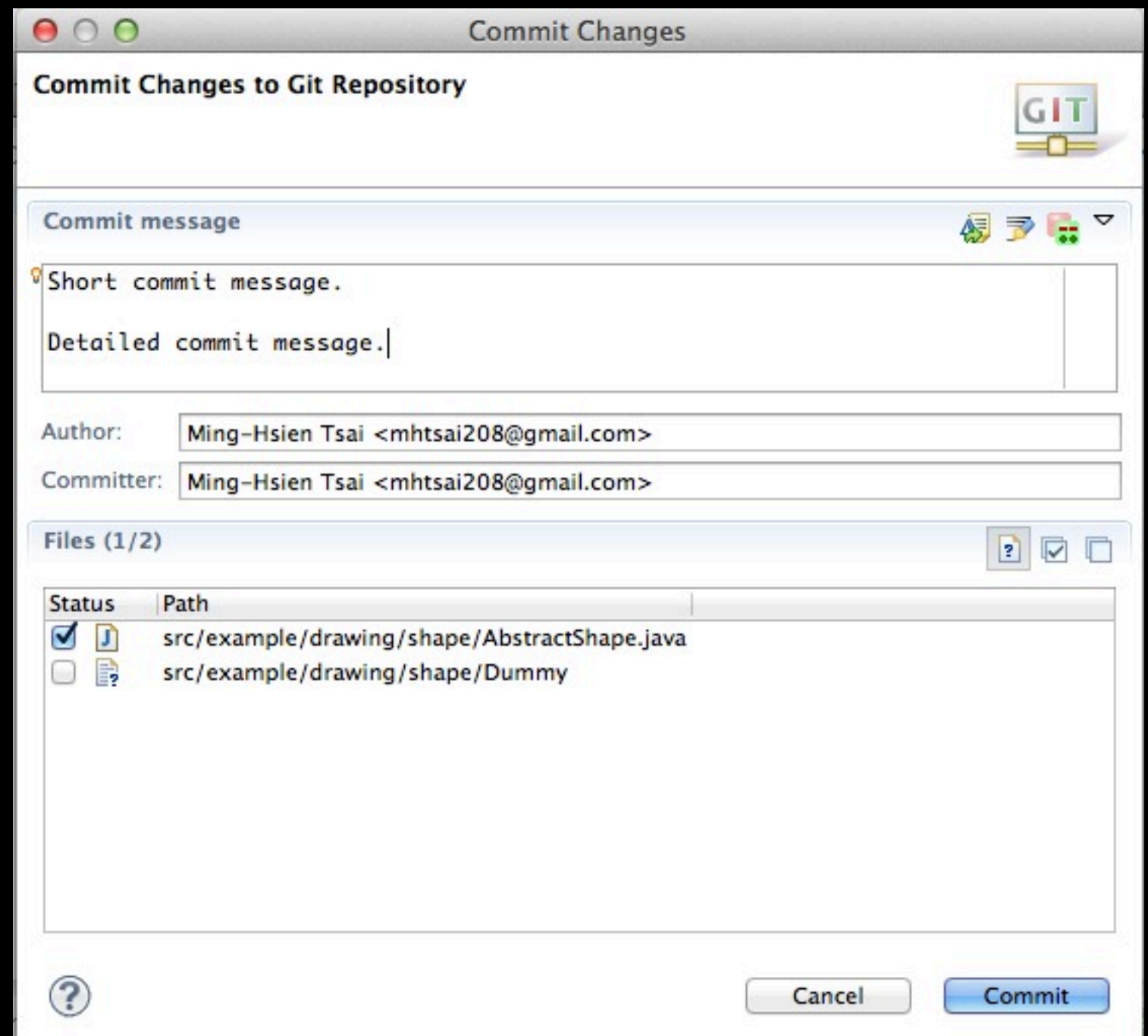
Store in Secure Store

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 / ...

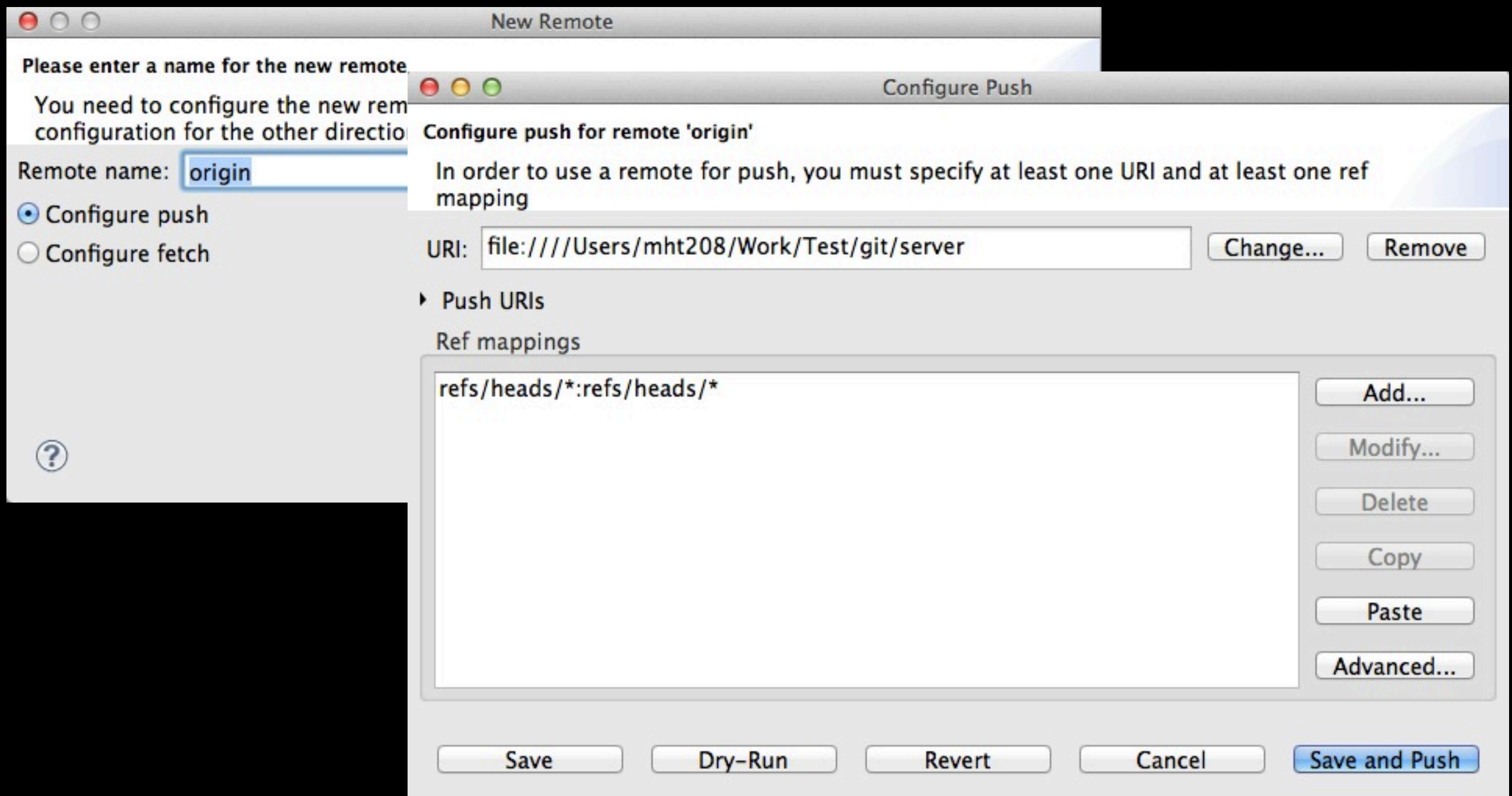
3. Make an initial commit.

4. Push to the remote repository:

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

Configure Push

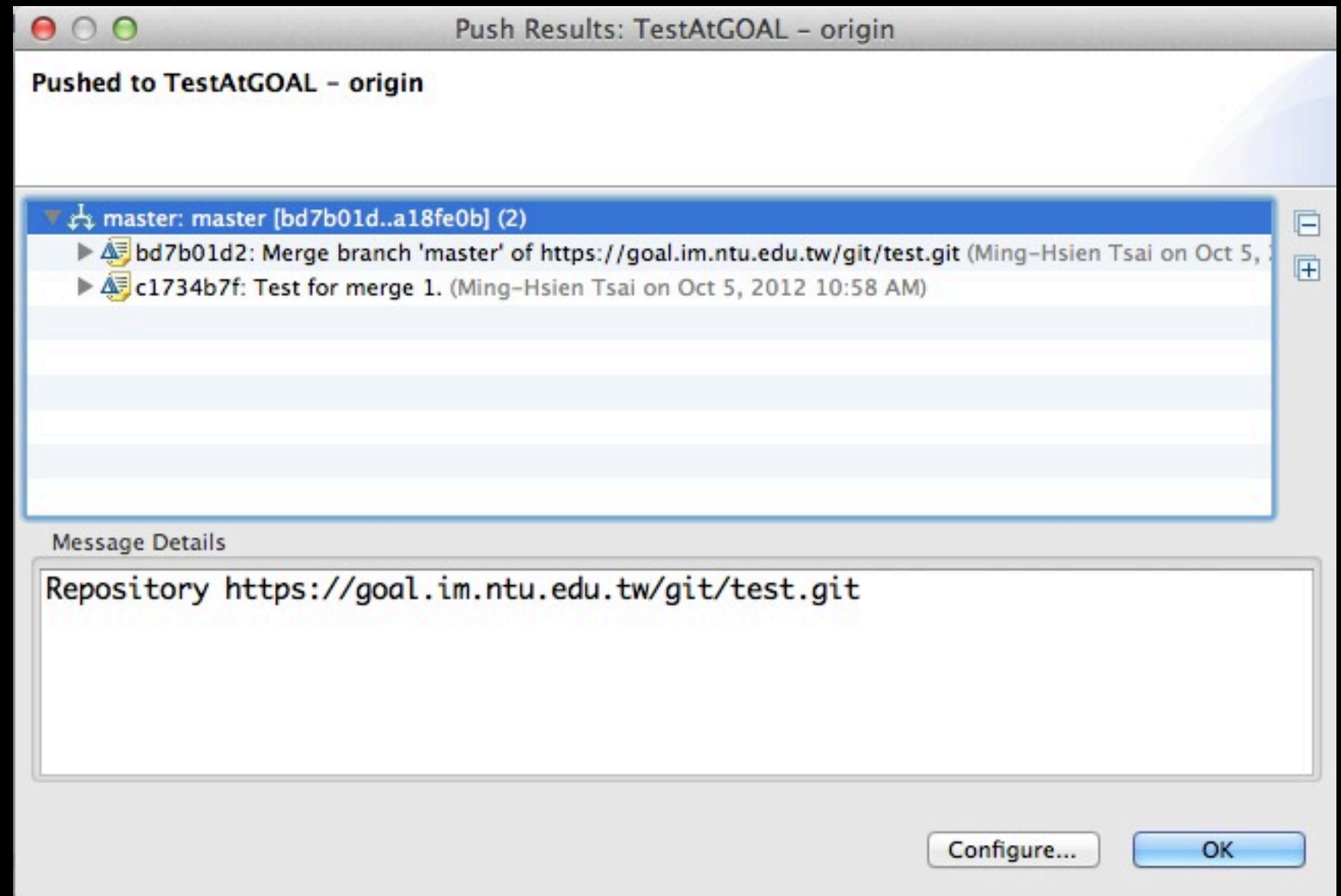
Git Repositories View / ... / Remotes / Create Remote...
Add the local repository and then create a remote one for it



Push

Project popup menu / Team / Push to Upstream

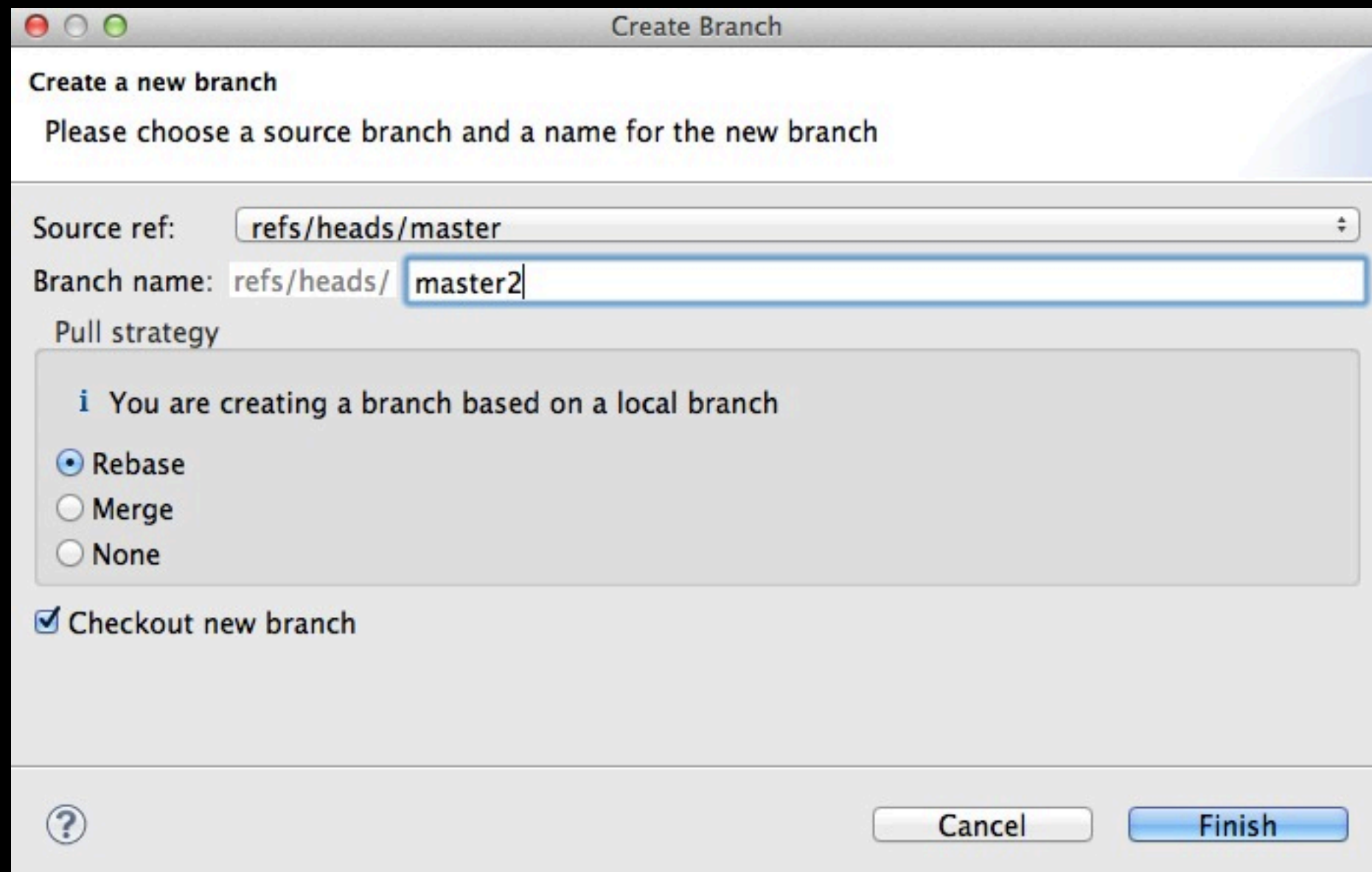
Pull before pushing



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

?

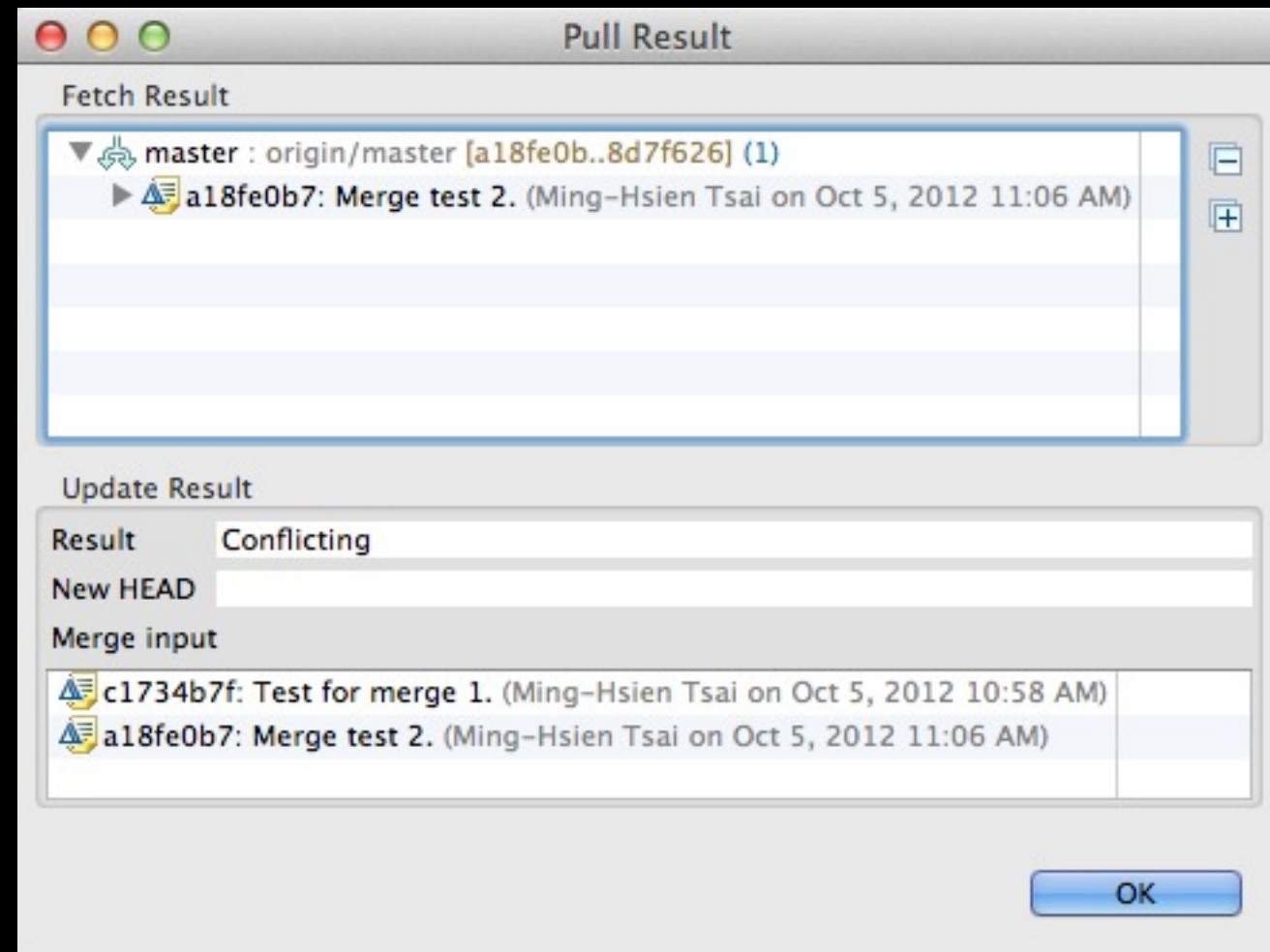
Cancel Finish

Pull

Project popup menu / Team / Pull

Resolve conflicts:

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

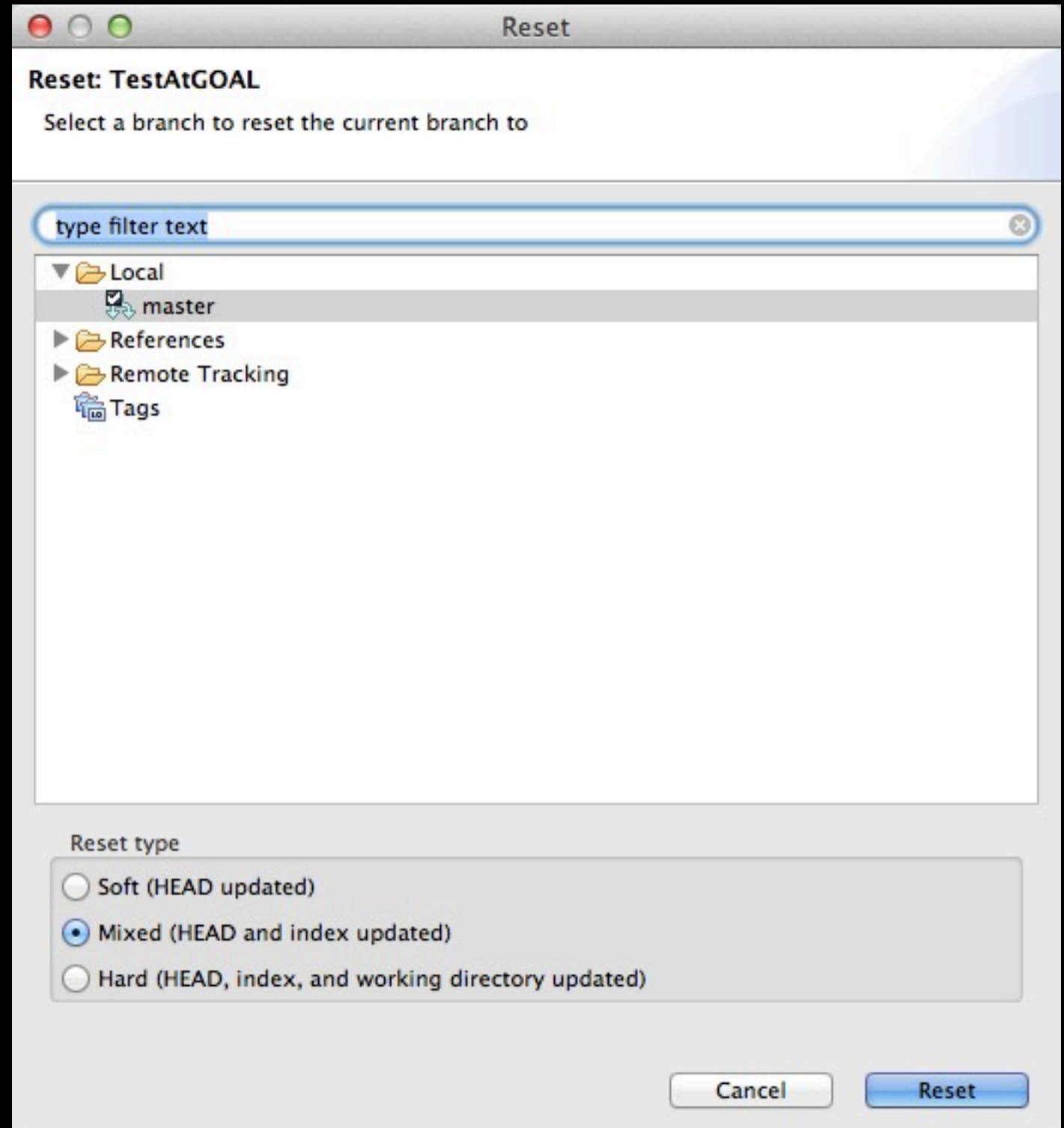
Soft (HEAD updated)

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