

EGit

(with Eclipse Oxygen)

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Use Git with Eclipse

- Create you project in Eclipse
- Switch to a terminal window
- `git init`, `git add`, `git commit`, ...

Use Git with Eclipse

- Create you project in Eclipse

Thank you for listening ?

- git init, git add, git commit, ...

Use Git in Eclipse

- EGit
 - Eclipse Team provider for the Git version control system
 - On top of the JGit Java implementation of Git
 - Available in the Eclipse Marketplace
 - Usually installed by default

Configuration

Eclipse / Preferences... (⌘,) / Team / Git

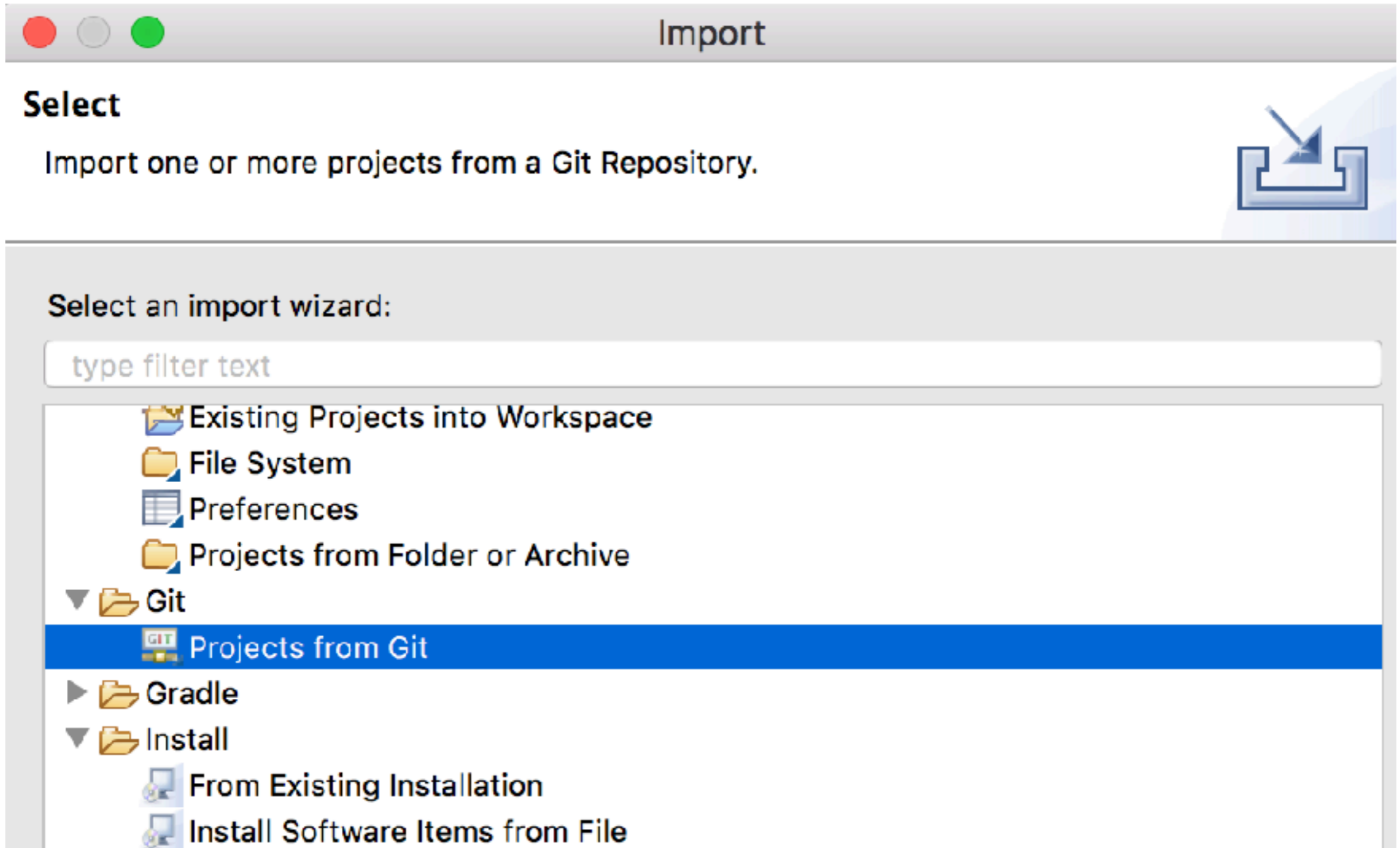
- ▶ Install/Update
- ▶ Java
 - JPF Preferences
- ▶ Maven
- ▶ Mylyn
- ▶ Oomph
- ▶ Plug-in Development
- ▶ Run/Debug
- ▼ Team
 - File Content
 - ▼ Git
 - Committing
 - Configuration**
 - Confirmations and Wa
 - Date Format
 - History
 - Label Decorations
 - Projects
 - Staging View
 - Synchronize
 - Window Cache
 - Ignored Resources
 - Models

Key	Value
▼ alias	
ci	commit
co	checkout
glog	log --graph --decorate --pretty=on
st	status
▼ http	
postBuffer	2M
sslVerify	false
▼ user	
email	mhtsai208@gmail.com
name	Ming-Hsien Tsai

```
git config --global --add user.name "NAME"  
git config --global --add user.email "EMAIL"
```

Clone

File / Import... / Git / Projects from Git



Clone

File / Import... / Git / Projects from Git



Import Projects from Git

Select Repository Source


Select a location of Git Repositories



type filter text



 Existing local repository

 Clone URI

Clone

File / Import... / Git / 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

Clone

File / Import... / Git / Projects from Git



Import Projects from Git







Branch Selection

Select branches to clone from remote repository. Remote tracking branches will be created to track updates for these branches in the remote repository.



Branches of <https://github.com/groovy/groovy-eclipse.git>:

type filter text

-  extract-groovy-sources
-  greclipse_batch_2_2_1
-  master
-  plexus-3.0
-  wip1727
-  working_build

Clone

File / Import... / Git / Projects from Git

Import Projects from Git

Local Destination

Configure the local storage location for groovy-eclipse.



Destination

Directory:

Browse

Initial branch:

Clone submodules

Configuration

Remote name:

Clone

File / Import... / Git / Projects from Git

Cloning from <https://github.com/groovy/groovy-eclipse.git>

Select a wizard to use for importing projects

Depending on the wizard, you may select a directory to determine the wizard's scope



Wizard for project import

- Import existing Eclipse projects
- Import using the New Project wizard
- Import as general project

Working Tree - /Users/mht208/.git/groovy-eclipse


Clone

File / Import... / Git / Projects from Git

Cloning from <https://github.com/groovy/groovy-eclipse.git>


Import Projects

Import projects from a Git repository



Projects:

type filter text to filter unselected projects

 groovy-eclipse (/Users/mht208/.git/groovy-eclipse)

Search for nested projects

Select All

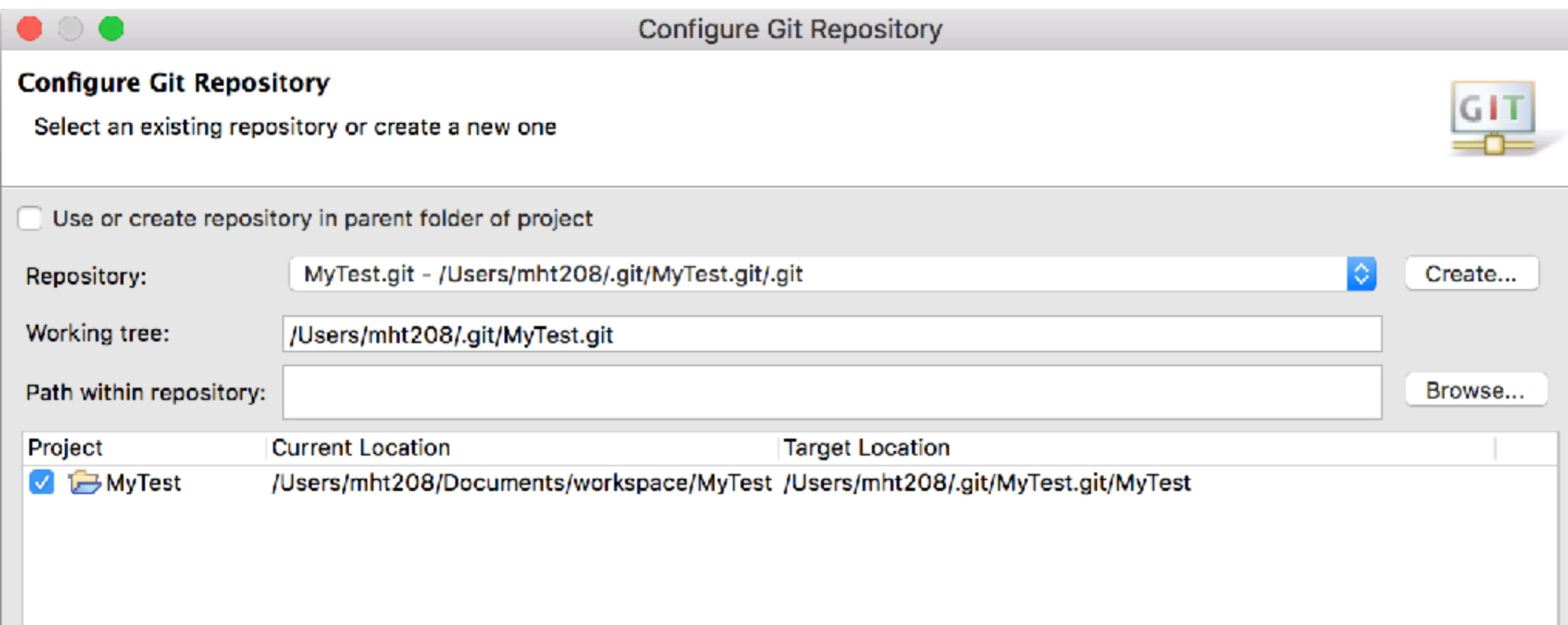
Deselect All

Share Projects

- Project Popup Menu / Team / Share Project...
- Make an initial commit
- Configure push
- Push to remote repositories

Share Projects

- Project Popup Menu / Team / Share Project...



Share Projects

- Project Popup Menu / Team / Share Project...

```
DHCP-22126 .git $ ls -a MyTest.git
```

```
. .. .git MyTest
```

```
DHCP-22126 .git $ ls -a MyTest.git/MyTest
```

```
. .settings debug simple  
.. LICENSE lattice.dot splash.png  
.DS_Store Lattice.java.backup lattice.png src  
.classpath Lattice.java.debug lattice.svg wiki  
.gitignore a.dot lib  
.project bin num_containment_ce
```

```
DHCP-22126 .git $ █
```


Commit

Project Popup Menu / Team / Commit...

The screenshot shows an IDE's commit dialog. At the top, a toolbar contains icons for Problems, Javadoc, Declaration, Search, Console, Progress, and Git Repos. Below this, the project name is displayed as **GOAL2 [general-acc]**. The dialog is divided into two main sections: **Unstaged Changes (12)** and **Staged Changes (2)**. The Unstaged Changes section lists four files: `a.ba`, `ch.unifr.goal.complement.zip - plugins`, `input.ba`, and `org.svrl.goal.cmd.strans.zip - plugins`. The Staged Changes section lists two files: `AbstractRandomAutomaton.java - plugins/org.svrl.goal.core/source/org/svrl/goal/core` and `TestCommand.java - plugins/org.svrl.goal.cmd/source/org/svrl/goal/cmd`. On the right side of the dialog, there is a commit message input field containing the text `10000000`. Below the input field are two buttons: **Push...** and **Commit**.

Commit

Project Popup Menu / Team / Commit...

The screenshot shows the Git commit dialog in an IDE. The top bar includes tabs for 'Problems', 'Javadoc', 'Declarations', 'Repositories', 'Tasks', 'Call Hierarchy', and 'Git Staging'. Below the tabs is a search bar labeled 'Filter files'. The left sidebar shows a project tree with 'GOAL2 [general-acc]' selected. Under 'Unstaged Changes (12)', files like 'a.ba', 'ch.unifr.goal.complement.zip', and 'input.ba' are listed. Under 'Staged Changes (2)', 'AbstractRandomAutomaton.java' and 'TestCommand.java' are listed. The main area is titled 'Commit Message' and contains the text: 'Change the symbols of classic alphabet.' followed by 'Change-Id: I00'. Below the message are two input fields: 'Author: Ming-Hsien Tsai <mhtsai208@gmail.com>' and 'Committer: Ming-Hsien Tsai <mhtsai208@gmail.com>'. At the bottom, there are two buttons: 'Commit and Push...' and 'Commit'.

Configure Push

Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...

The screenshot shows the Git Repositories View in an IDE. The top toolbar includes icons for Problems, Javadoc, Declaration, Search, Console, Progress, and Git Repositories. The main area displays a list of local repositories, each with a folder icon, a name, a branch name, and a path. The 'Remotes' section is highlighted in blue. A 'Create Remote...' dialog box is open, showing a text input field with the placeholder text 'Paste Repository Path or URI' and a keyboard shortcut '⌘V'.

Problems @ Javadoc Declaration Search Console Progress Git Repositories

- ▶ 3DFT [NO-HEAD] - /Users/mht208/.git/3DFT/.git
- ▶ > BuchiComplementation [master] - /Users/mht208/.git/BuchiComplementation/.git
- ▶ BuchiStore.Admin [master] - /Users/mht208/.git/BuchiStore.Admin/.git
- ▶ > BuchiStore.STTT [master] - /Users/mht208/.git/BuchiStore.STTT/.git
- ▶ > cpachecker [socket] - /Users/mht208/Work/Sources/cpachecker/.git
- ▶ Eclipse-Markdown-Editor-Plugin [master ↑ 1] - /Users/mht208/.git/Eclipse-Markdown-Editor-Plugin/.git
- ▶ GOAL1 [master] - /Users/mht208/.git/GOAL1/.git
- ▶ > GOAL2 [general-acc] - /Users/mht208/.git/GOAL2/.git
- ▶ > INER2012 [master ↑ 6] - /Users/mht208/.git/INER2012/.git
- ▶ jThor [master] - /Users/mht208/.git/jThor/.git
- ▶ Lattice [master - Bare] - /Users/mht208/.git/Lattice
- ▶ > Lattice [master] - /Users/mht208/Documents/workspace/Lattice/.git
- ▼ > MyTest.git [master] - /Users/mht208/.git/MyTest.git/.git
 - ▶ Branches
 - ▶ Tags
 - ▶ References
- Remotes**
- ▶ Working Tree - /Users/mht208/.git/
- ▶ > PLTLTranslation [master] - /Users/mht208/.git/PLTLTranslation/.git
- ▶ > ShapeDrawingCore [master] - /Users/mht208/.git/ShapeDrawingCore/.git
- ▶ > ShapeDrawingUI [master] - /Users/mht208/.git/ShapeDrawingUI/.git

Create Remote...
Paste Repository Path or URI ⌘V

Configure Push

Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...


New Remote

Please enter a name for the new remote

You need to configure the new remote for either fetch or push; you can add configuration for the other direction later

Remote name:

Configure push
 Configure fetch




Configure Push

Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...

Select a URI

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

Configure Push

Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...
Configure Push

Configure push for remote 'origin'

In order to use a remote for push, you must specify at least one URI and at least one ref mapping



URI:

Change...

Remove

▶ Push URIs

Ref mappings

No Push Refspec, will push currently checked out branch instead.

Add...

Modify...

Delete

Copy

Paste

Advanced...

Save

Dry-Run

Revert

Cancel

Save and Push

Configure Push

Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...
Configure Push

Configure push for remote 'origin'

In order to use a remote for push, you must specify at least one URI and at least one ref mapping



URI:

Change...

Remove

▶ Push URIs

Ref mappings

No Push Refspec, will push currently checked out branch instead.

Add...

Modify...

Delete

Copy

Paste

Advanced...

Add ref mappings (Advanced...)

Save

Dry-Run

Revert

Cancel

Save and Push

Configure Push



Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...

Add Configured Push Specs

Add All Branches Spec

Add All Tags Spec

Specifications for push

Mode	Source Ref	Destination Ref	Force Update	Remove
 Update	refs/heads/*	refs/heads/*	<input type="checkbox"/>	

Configure Push

Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...

Configure Push

Configure push for remote 'origin'

In order to use a remote for push, you must specify at least one URI and at least one ref mapping

URI: Change... Remove

► Push URIs

Ref mappings

Add...
Modify...
Delete
Copy
Paste
Advanced...

Save Dry-Run Revert Cancel Save and Push


Configure Push

Git Repositories View / Your Local Repository / Remotes / Create Remote...
Project Popup Menu / Team / Remote / Configure Push to Upstream...

Push Results: MyTest.git - origin

Pushed to MyTest.git - origin



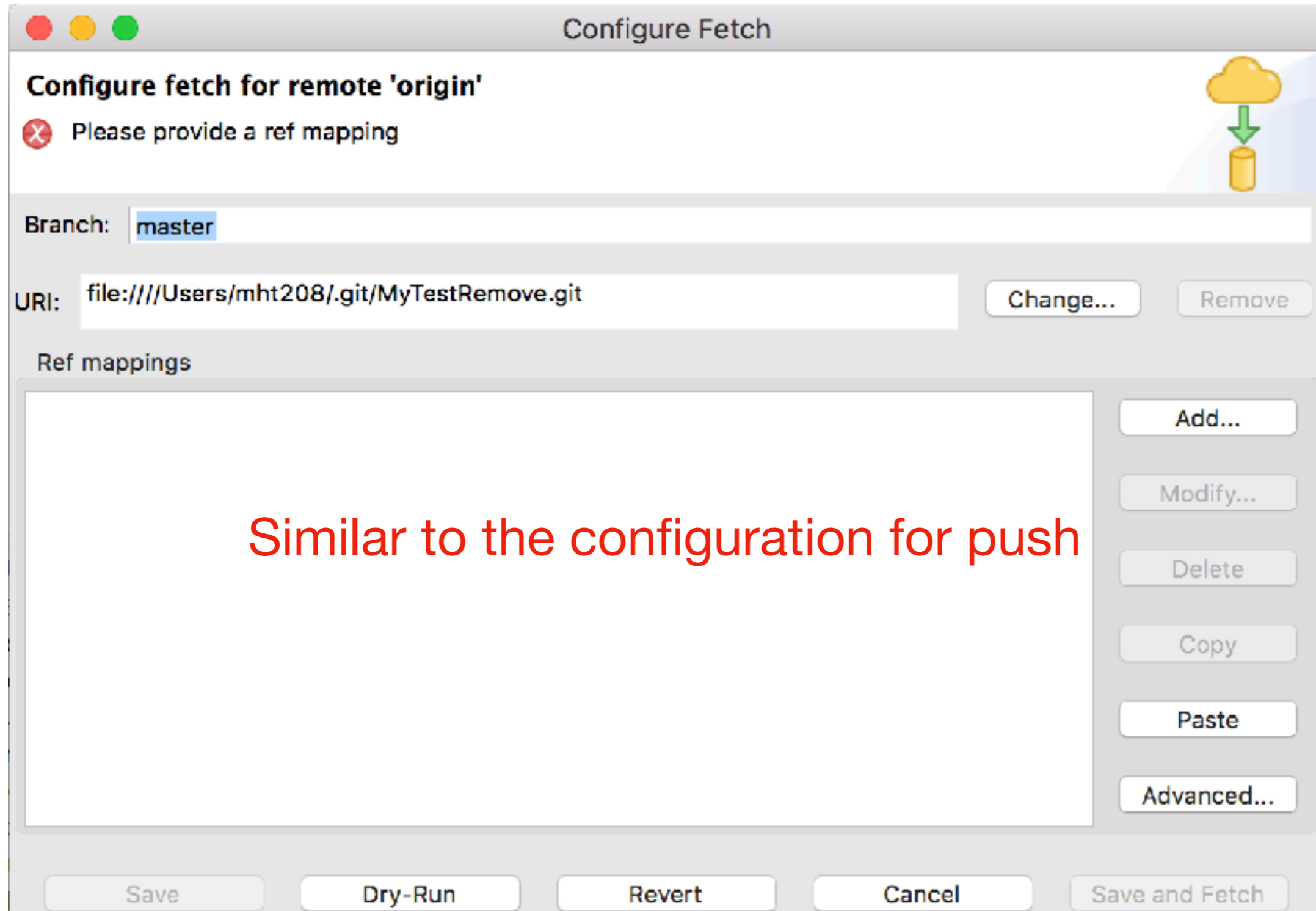
 master → master [up to date]

Message Details

Repository <file:///Users/mht208/.git/MyTestRemove.git>

Configure Fetch

Project Popup Menu / Team / Remote / Configure Fetch to Upstream...



Pull

Project Popup Menu / Team / Pull

Pull Result for MyTest.git

Fetch Result

- ▼ master : origin/master [0670b85..a1e8c4f] (1)
 - ▶ 0670b85f: Add README. (Ming-Hsien Tsai on 2017-09-20 14:49:16)

Update Result

Result

New HEAD

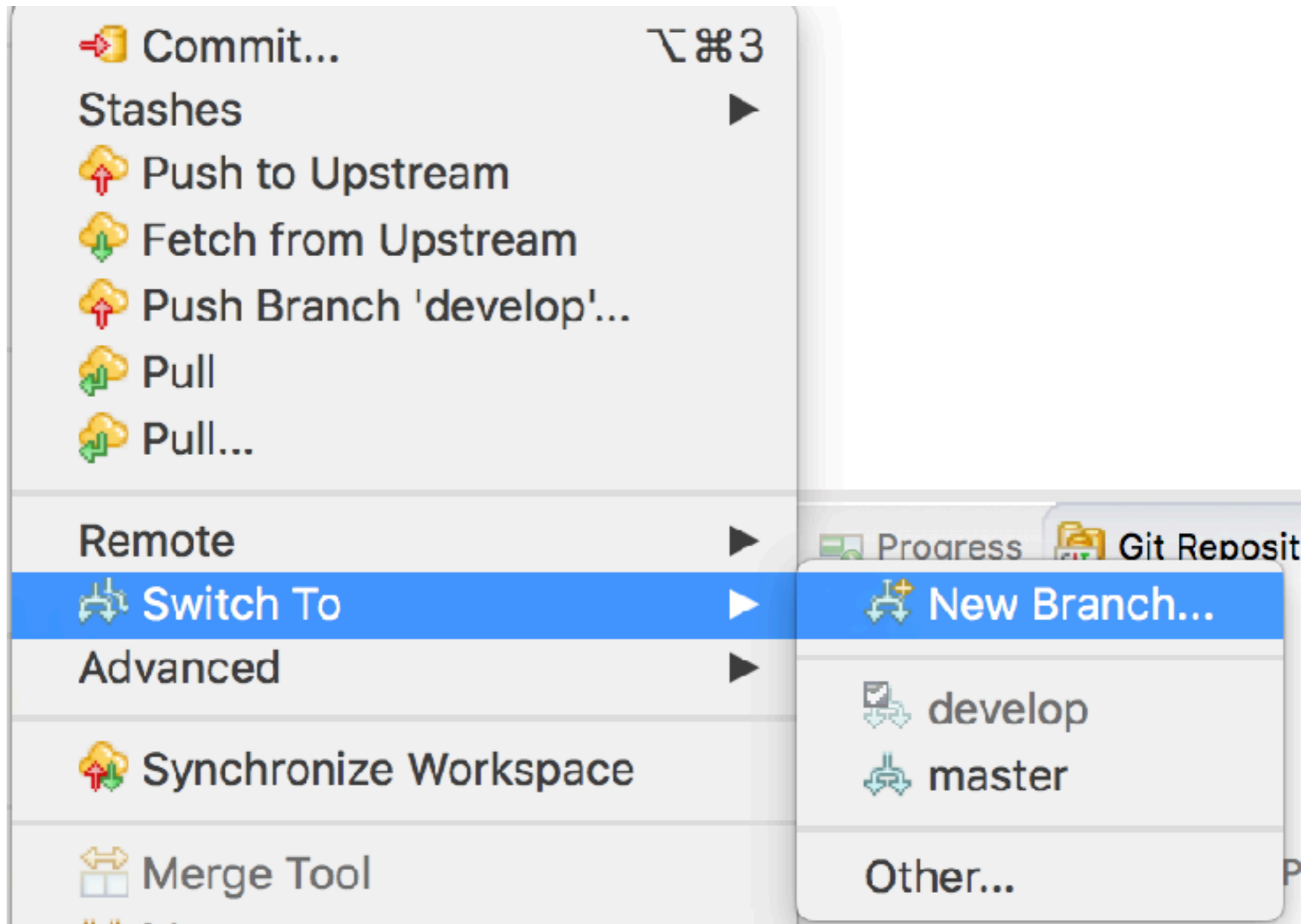
Merge input

- a1e8c4fa: Initial commit. (Ming-Hsien Tsai on 2017-09-20 14:16:57)
- 0670b85f: Add README. (Ming-Hsien Tsai on 2017-09-20 14:49:16)

[Close](#)

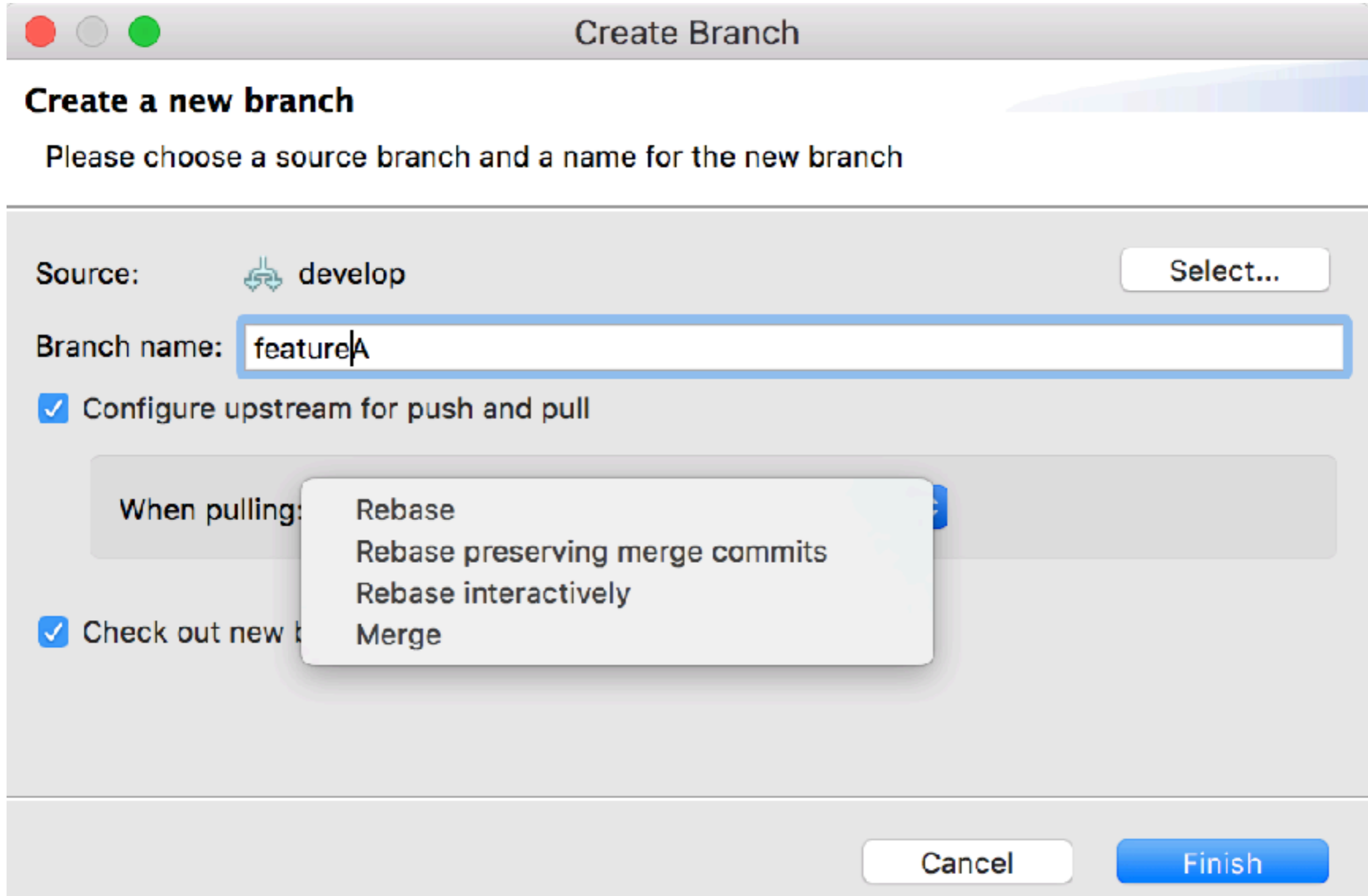
Branches

Project Popup Menu / Team / Switch To



Branches

Project Popup Menu / Team / Switch To



Others

- Revert file
 - File Popup Menu / Replace With
- Rebase
 - Project Popup menu / Team / Rebase...
- Stash
 - Repository Popup Menu / Stashes / Stash Changes...