

EGit

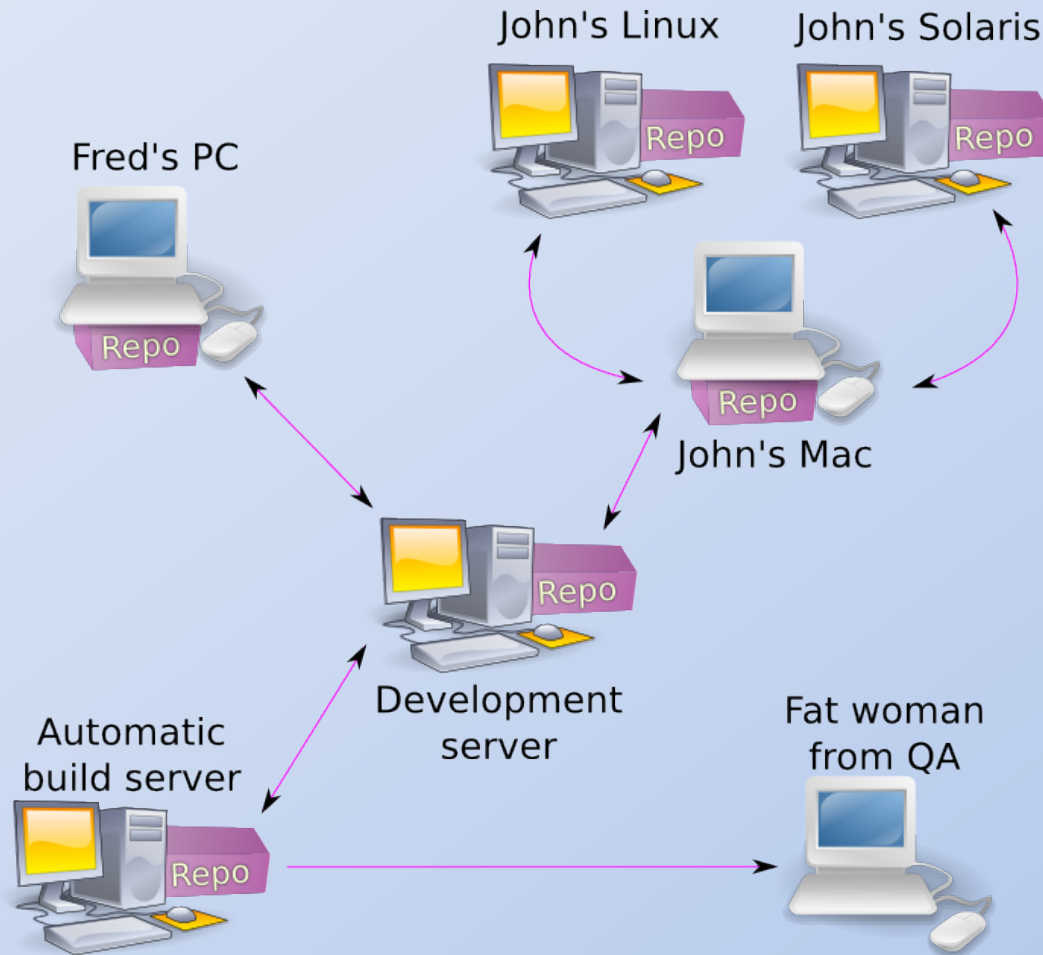
TA: Jimin Hsieh

EGit

- What is EGit?
 - Git in Eclipse.
- What is Git?
 - A distributed source code control system.
- Why you need to learn it, even you don't work for a team?
 - It could help you to manage your source code.
- Who is the creator?
 - Linus Torvalds

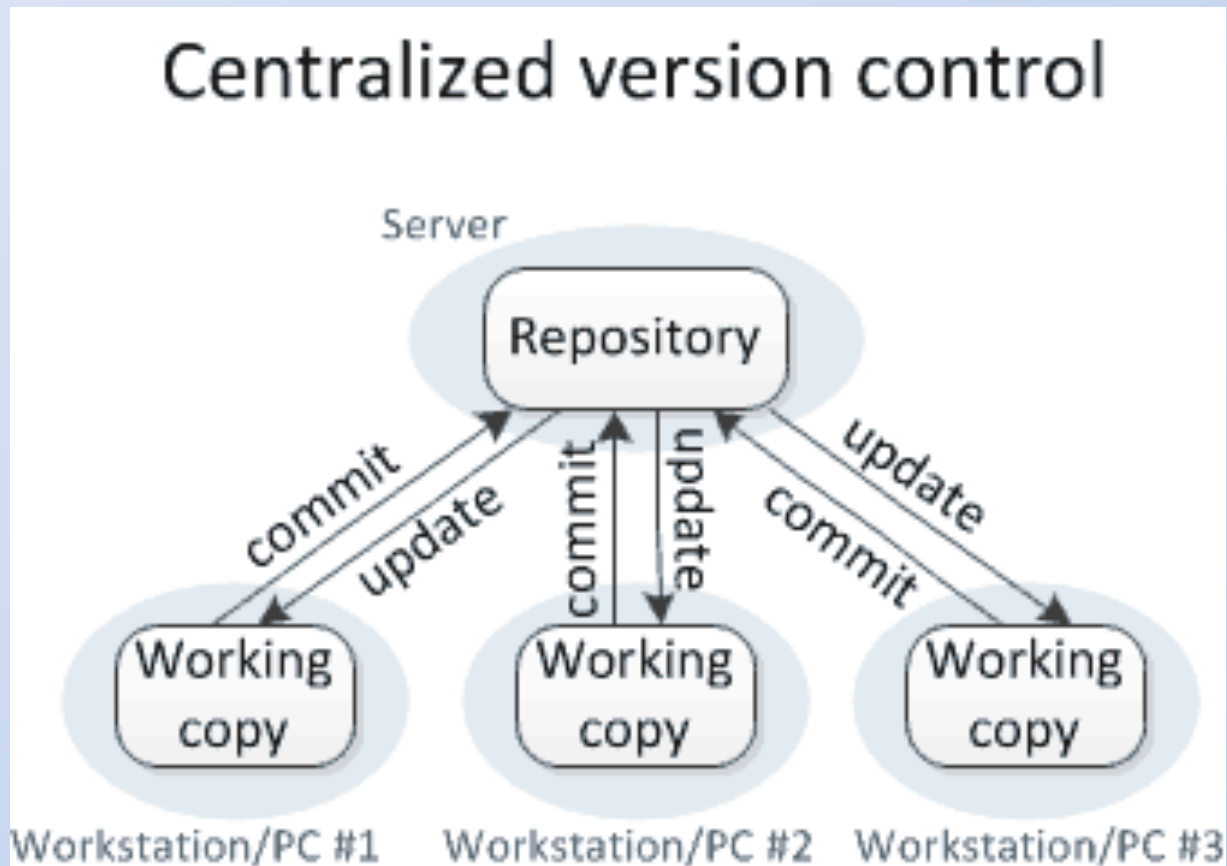


Distributed version control ?



Centralized version control?

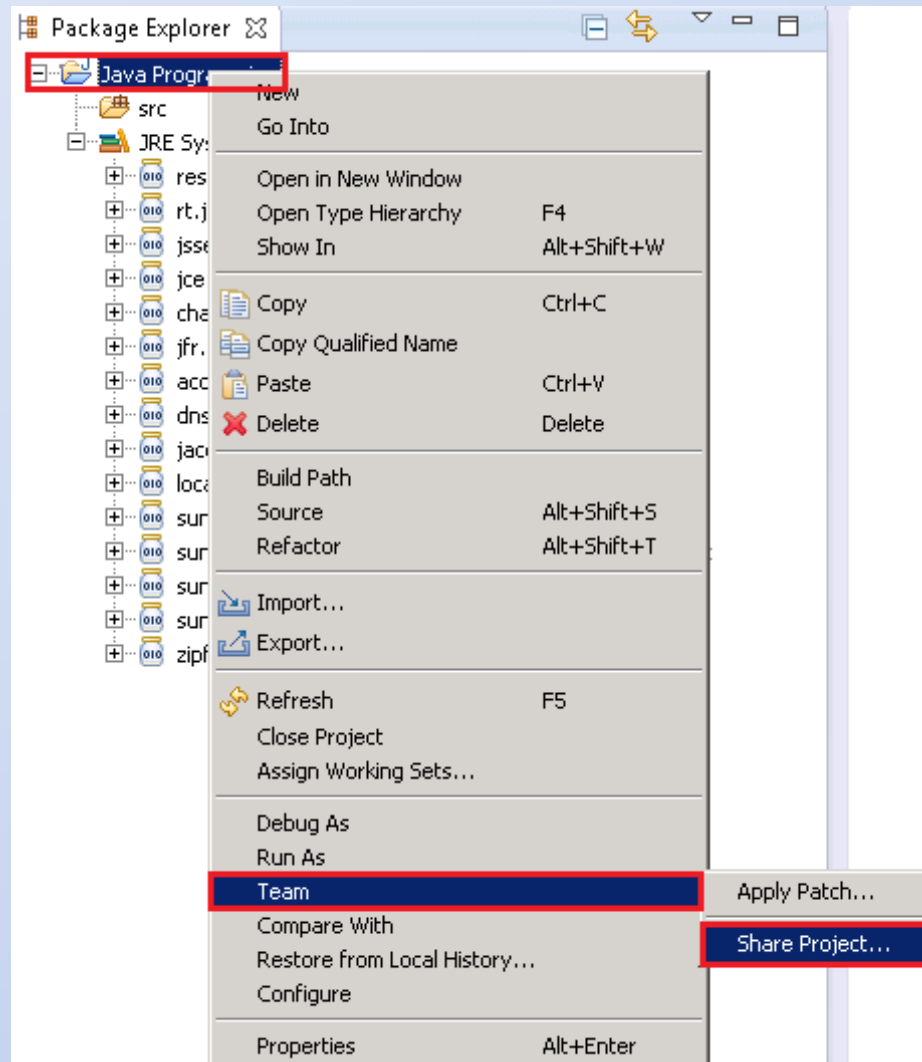
- Ex. CVS, Subversion...etc.

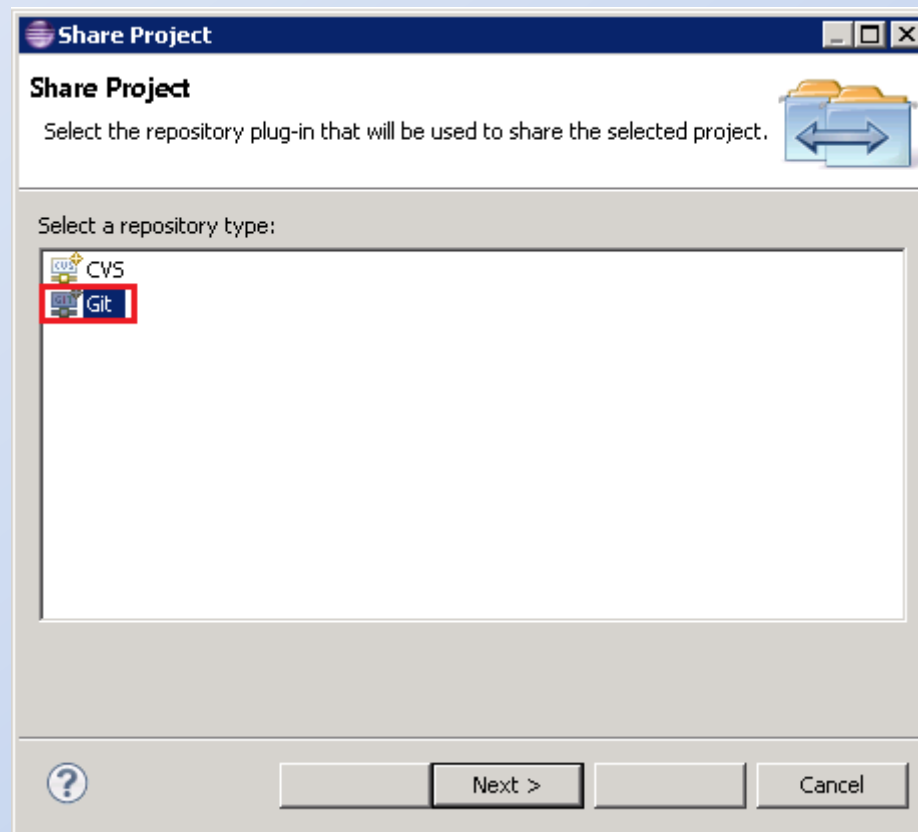


Free Git Hosting Sites

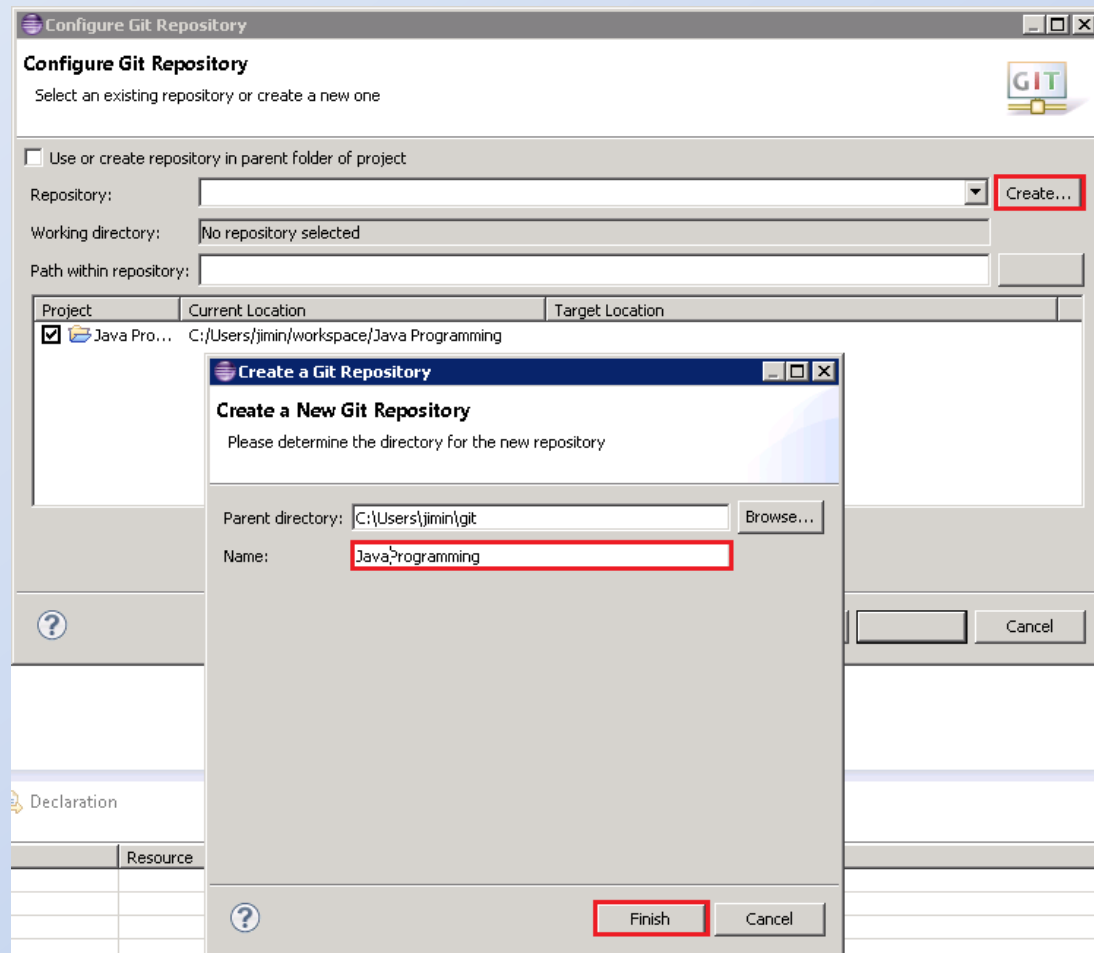
- <https://github.com/>
 - All free space will be public.
 - You have to pay for private space.
- <https://bitbucket.org/>
 - You can have public and private space for free.
 - But you when you want to use private project to collaborate with 4 others, all accounts need pay for this.

Create Your Git Repository

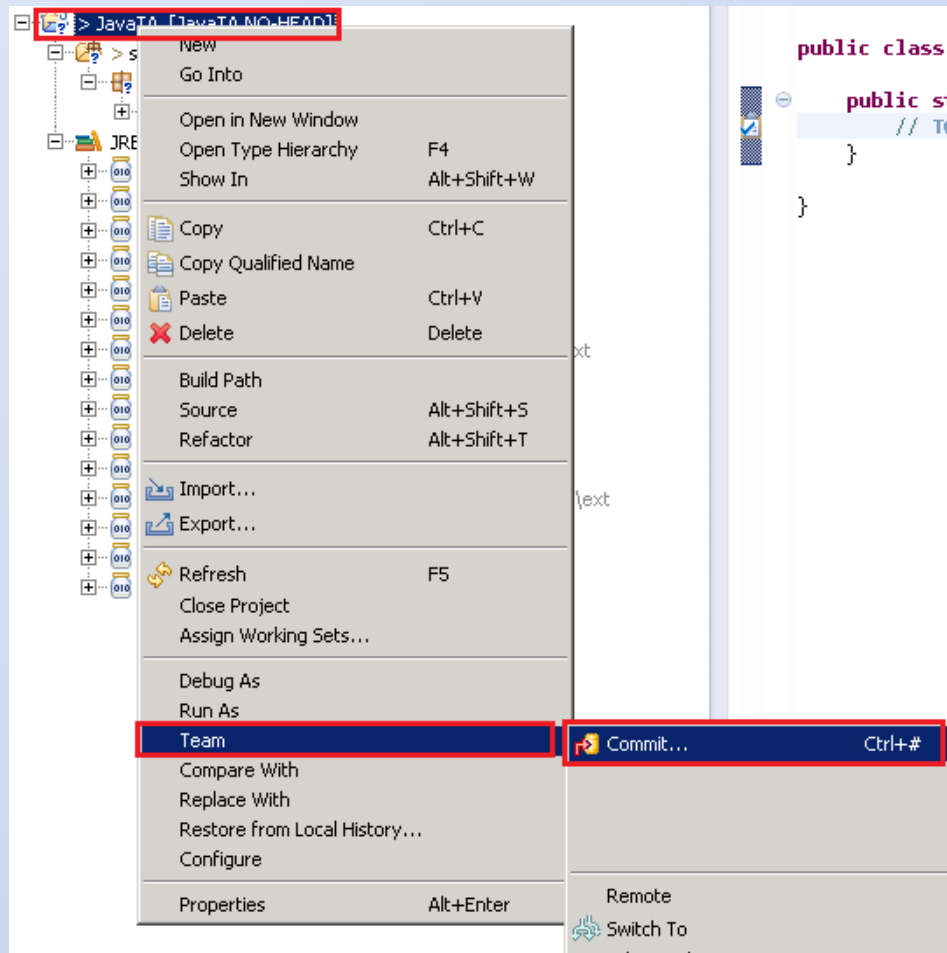




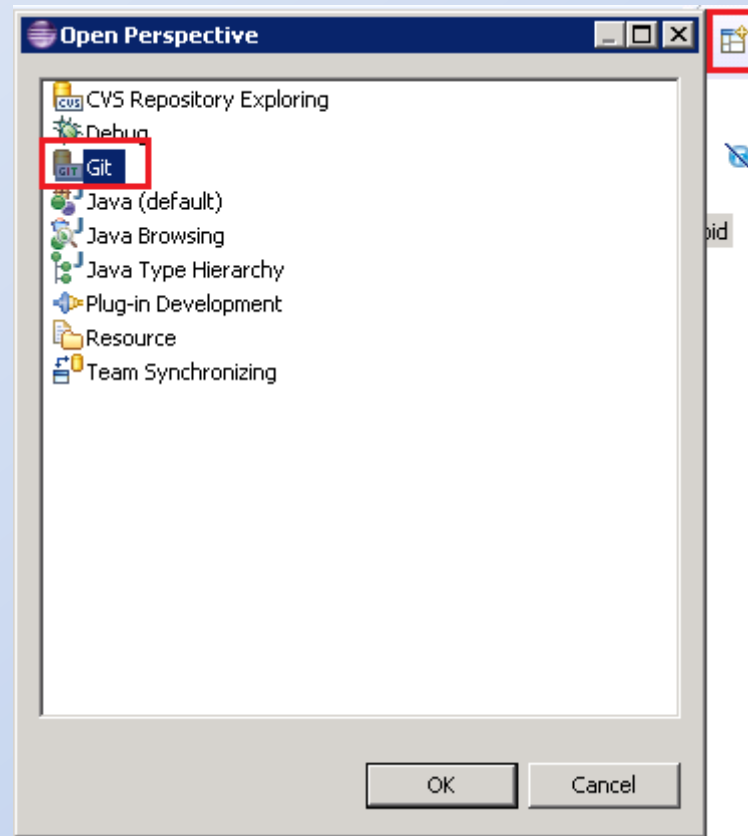
Naming Your Repository



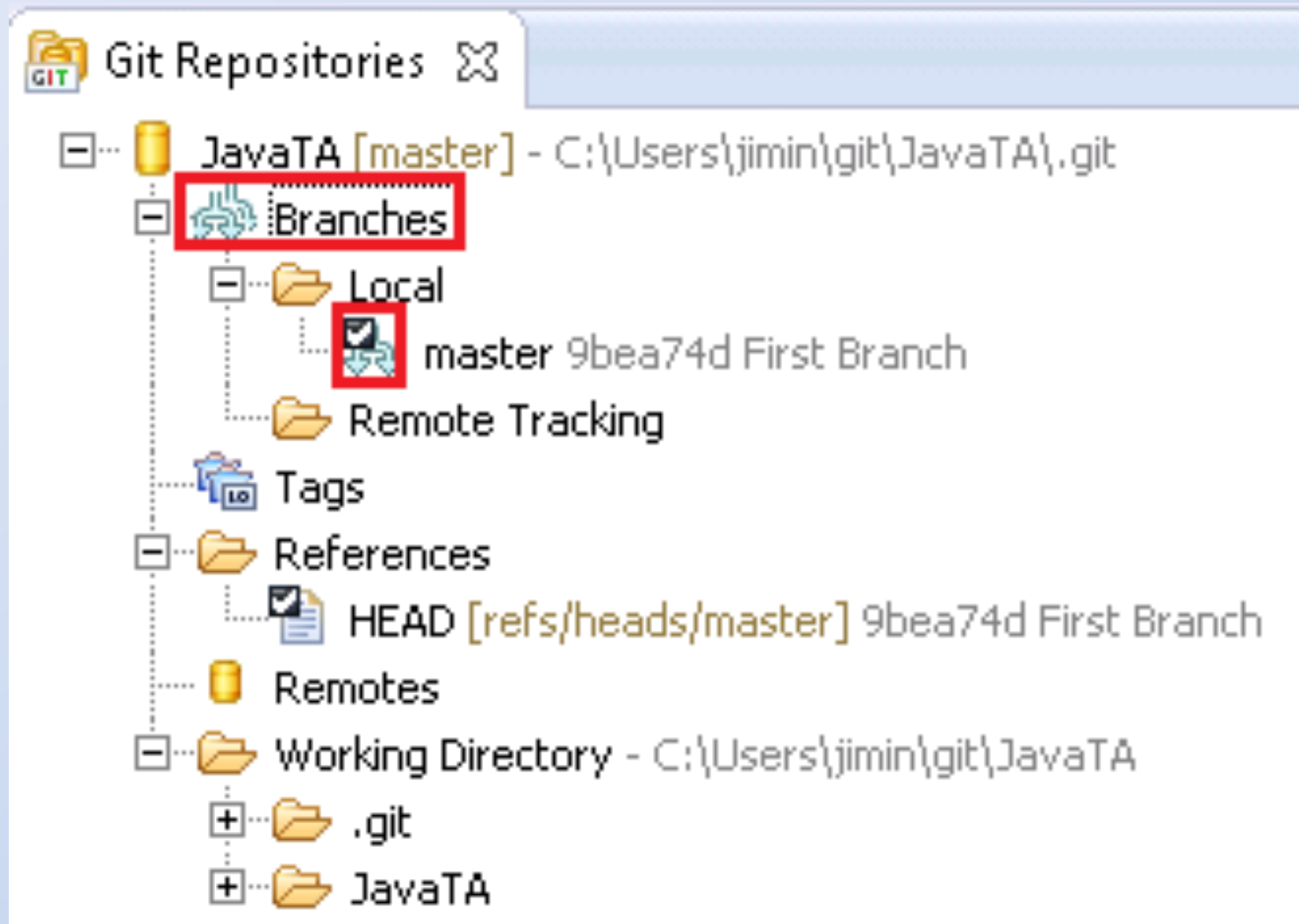
Commit Your Code



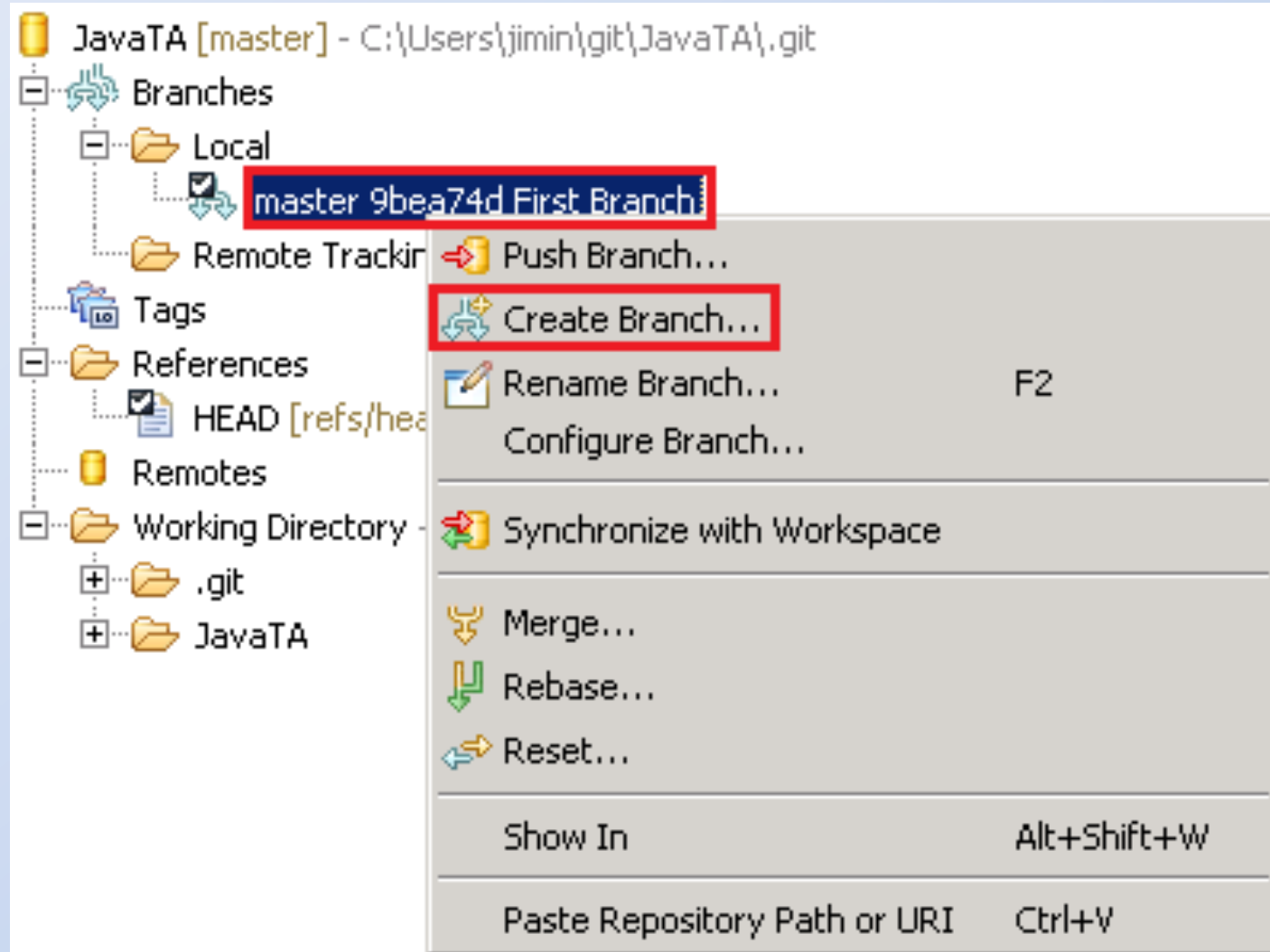
Open Git Perspective



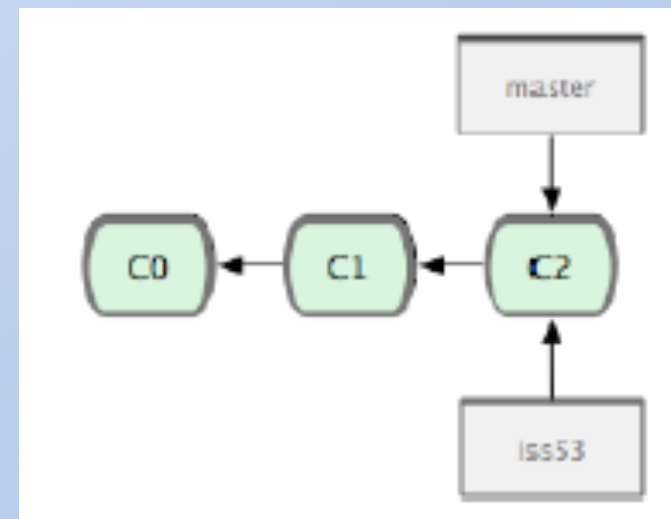
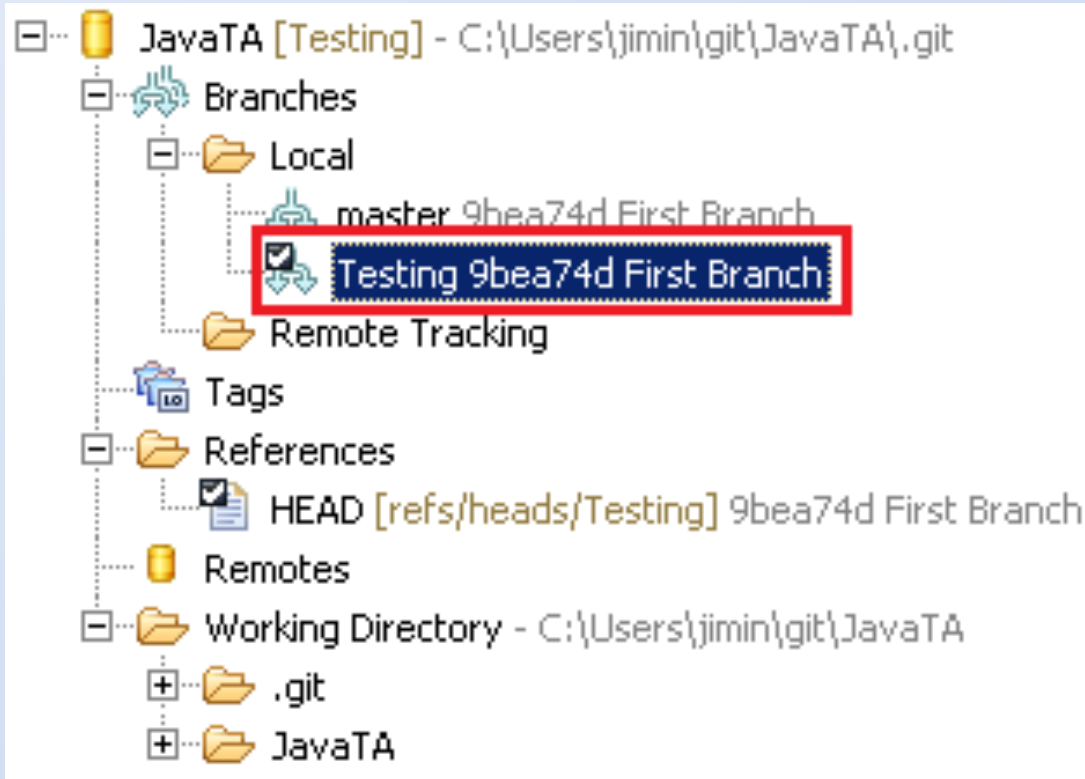
Git Perspective



Branch



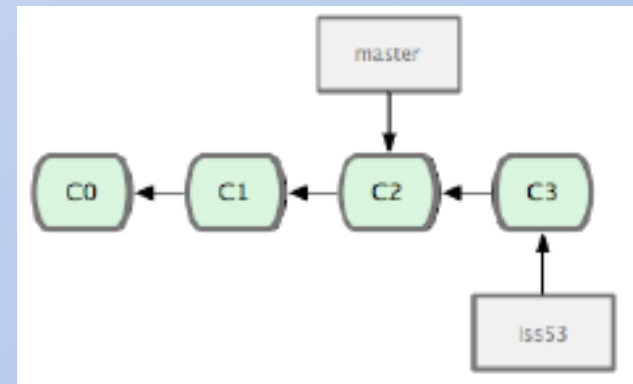
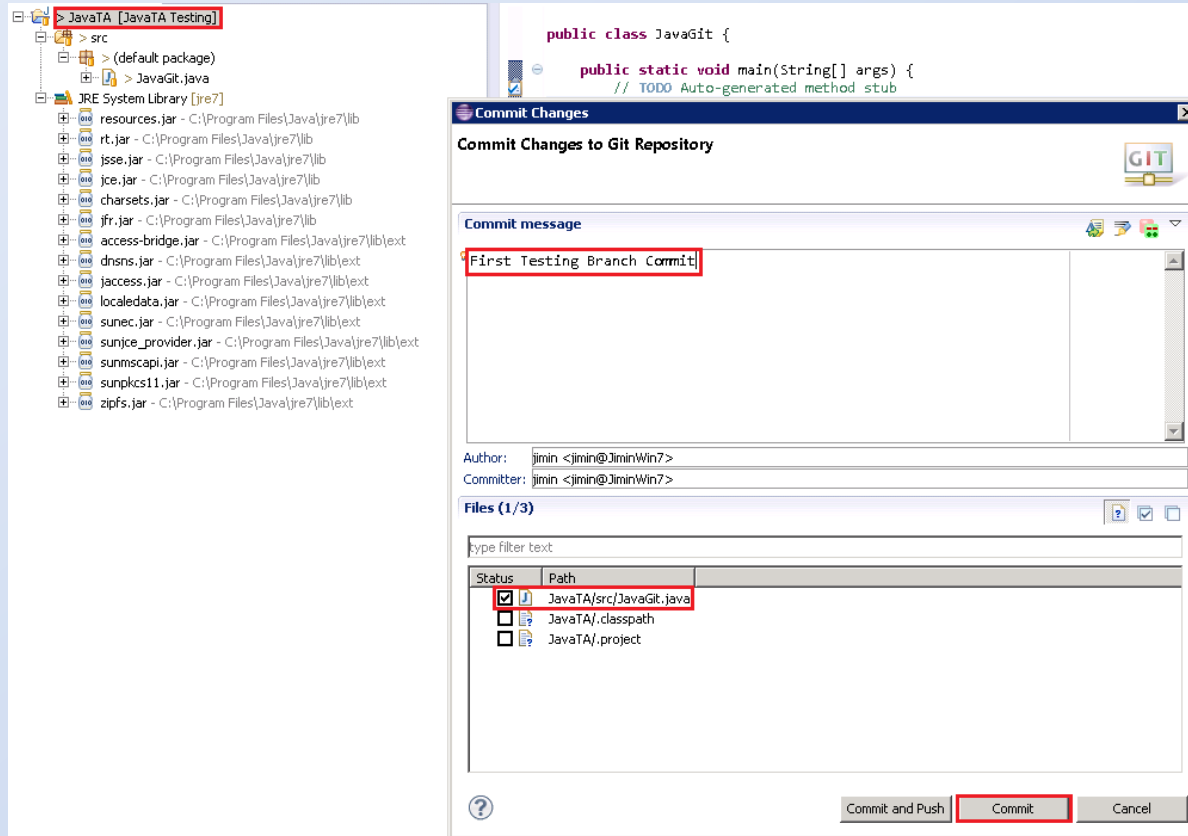
New Branch



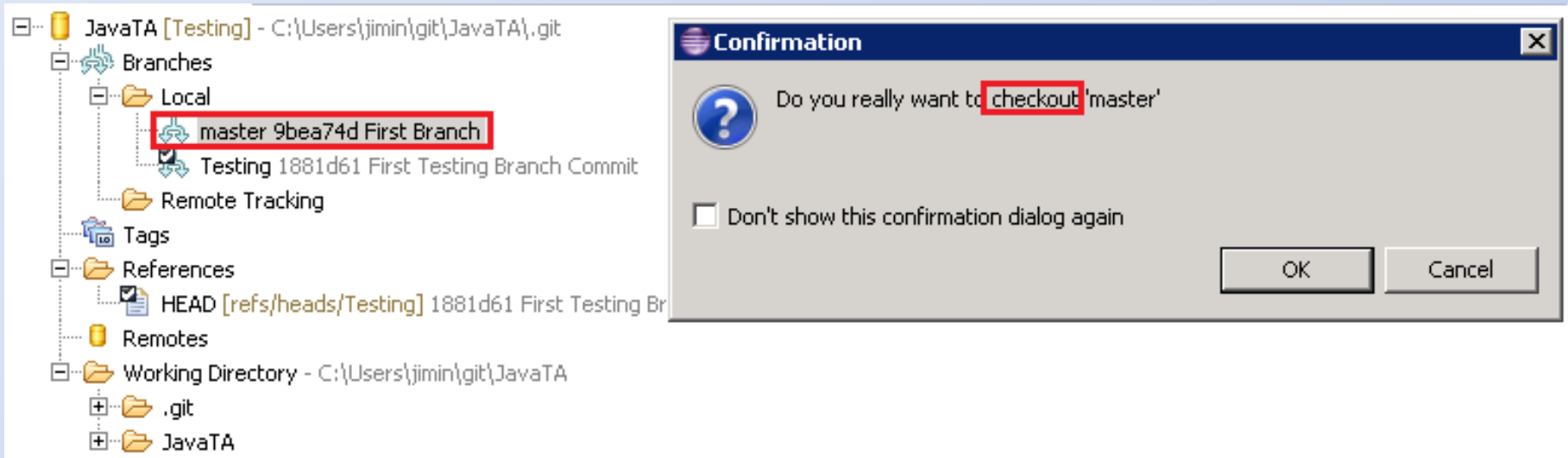
Edit Your New Branch

```
public class JavaGit {  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        System.out.println("Hello First Git!");  
    }  
}
```

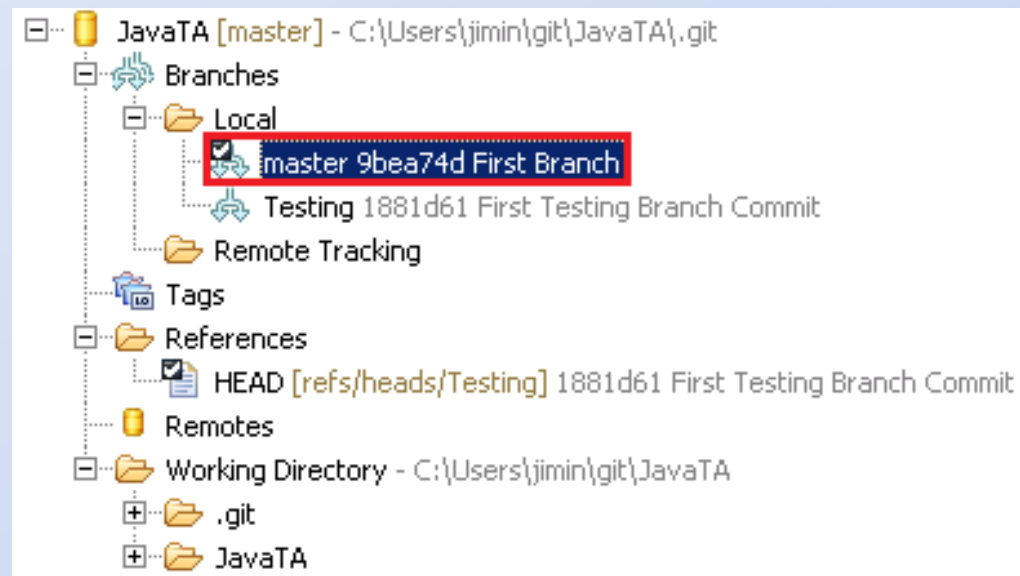
Commit in new Branch



Checkout master Branch

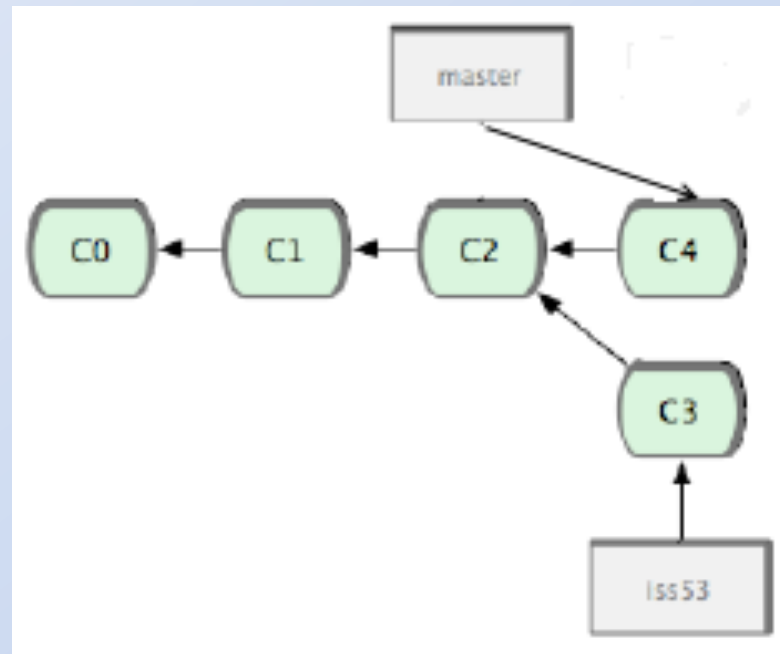


Back to original source code



```
public class JavaGit {  
  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
    }  
}
```

Add new code in master

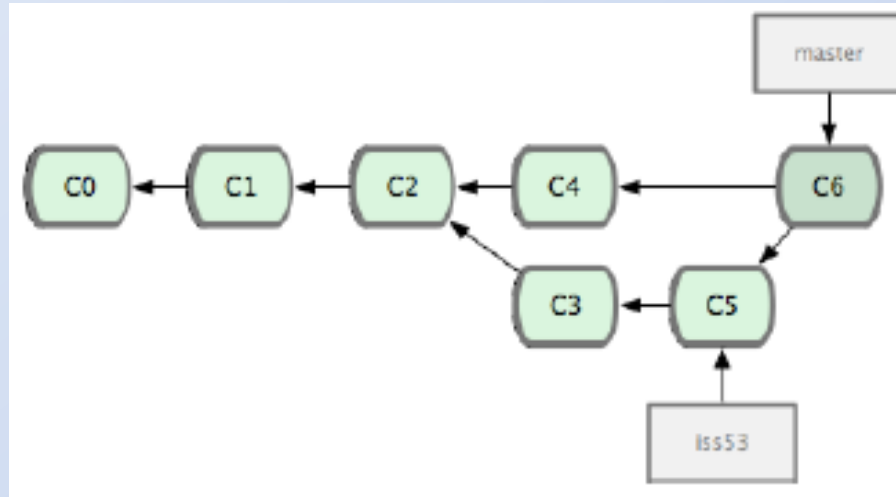


Problems @ Javadoc History

Repository: JavaTA

Id	Message	Author	Authored Date	Commit...	Committed Date
f2fbad8	master HEAD add for mastjimin	jimin	19 minutes ago	jimin	19 minutes ago
df60eb1	Testing 2nd code	jimin	23 minutes ago	jimin	23 minutes ago
ceafde2	Add for Testing	jimin	25 minutes ago	jimin	25 minutes ago
08ca039	First Java	jimin	29 minutes ago	jimin	29 minutes ago

Merge

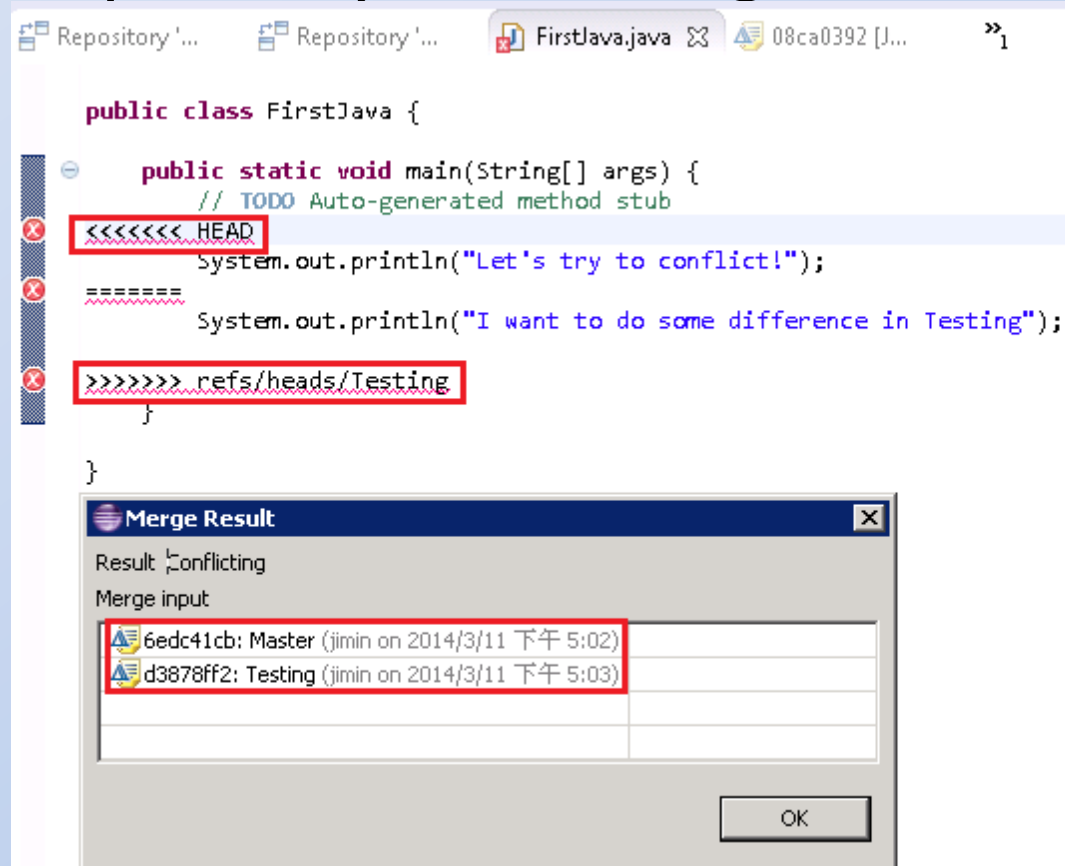


Repository: JavaTA


Id	Message	Author	Authored Date	Commit...	Committed Date
f6d2f0e	master HEAD Merge branch jimin	jimin	1 seconds ago	jimin	1 seconds ago
f2fbad8	add for master	jimin	69 minutes ago	jimin	69 minutes ago
df60eb1	Testing 2nd code	jimin	74 minutes ago	jimin	74 minutes ago
ceafde2	Add for Testing	jimin	75 minutes ago	jimin	75 minutes ago
08ca039	First Java	jimin	79 minutes ago	jimin	79 minutes ago

Merge with conflict

- Time: When two different branches modify the same code, repository will emerge “conflict”.



Bitbucket

Atlassian
 Bitbucket

FeaturesPricingLog inSign up

Unlimited private code repositories

FREE FOR 5 USERS + GIT OR MERCURIAL + LIGHTWEIGHT CODE REVIEW + MAC AND WINDOWS CLIENT

Username


Email


Password


Sign up for free

Free Git tutorials

Create Repository

 **Bitbucket** Teams ▾ Repositories ▾ **Create**

owner/repository ? ▾ 




Jimin Hsieh
Taiwan
Member since March 2014

Manage account


Repositories 2 Followers Following Activity


Type: All Public Private Language ▾

Find repositories




Java
Updated 2 minutes ago · Java

 ▾



Java Test
Updated 2014-03-04 · Java

 ▾

Setup Repository

Bitbucket

Teams ▾

Repositories ▾

Create

owner/repository

?

Create a new repository

You can also [import a repository](#)

Name*

Description

Access level

☒ This is a private repository

Forking

Allow only private forks ▾

Repository type

☒ Git

☐ Mercurial

Project management

☐ Issue tracking

☐ Wiki

Language

Select an Option ▾

Create repository

Cancel

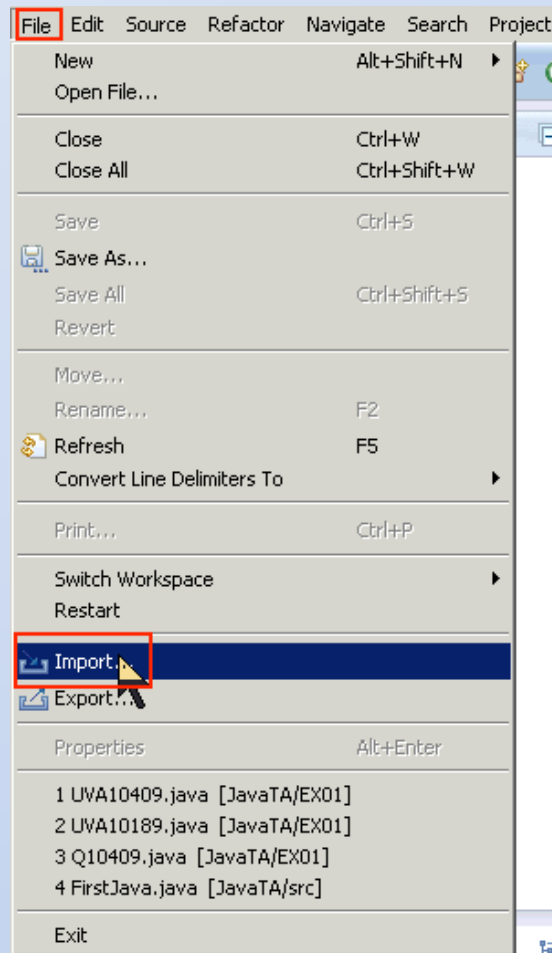
New to Bitbucket?

Learn the basics of using Git and Mercurial by exploring the Bitbucket 101.

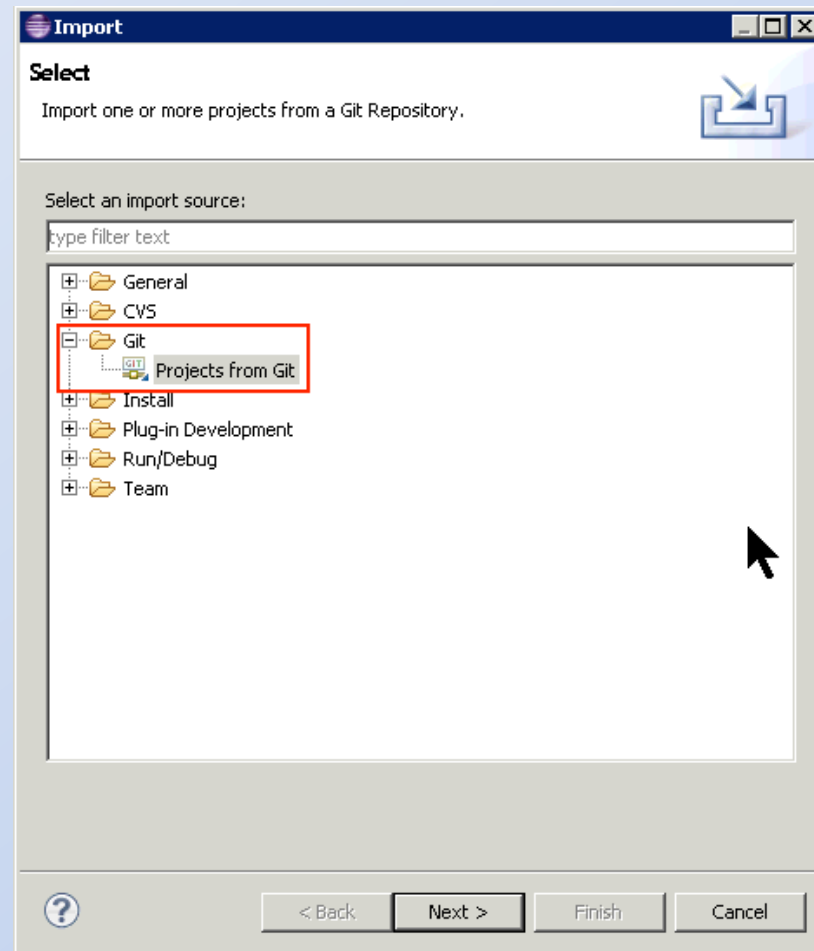
Working in a team?

Create a team account to consolidate your repos and organize your team's work

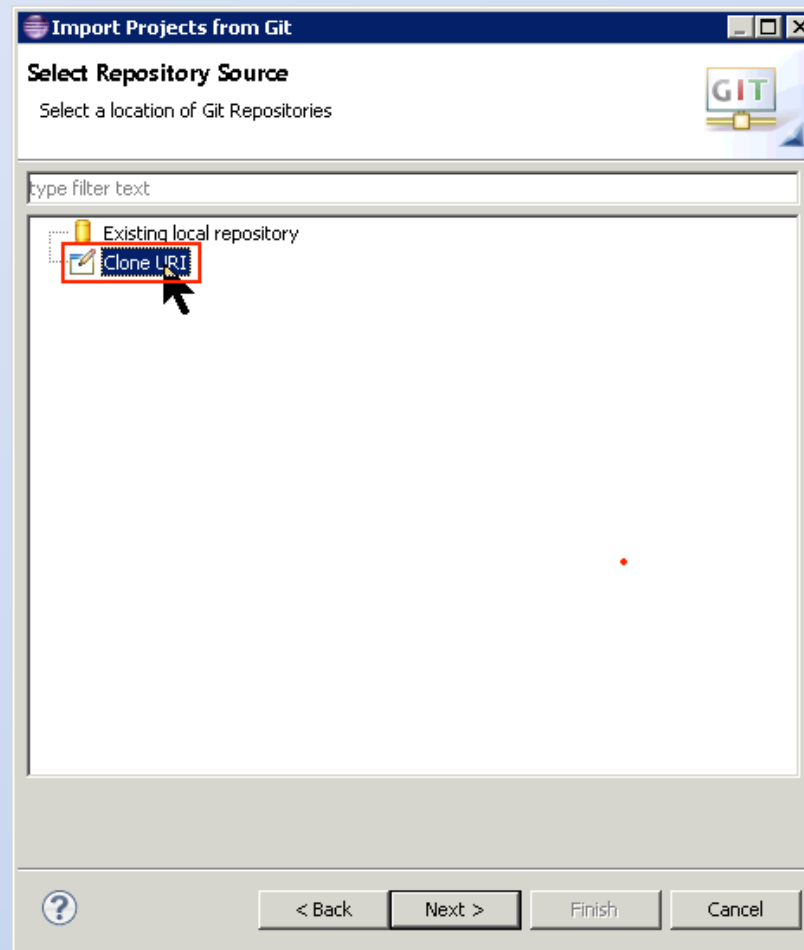
Eclipse Import Git Repository



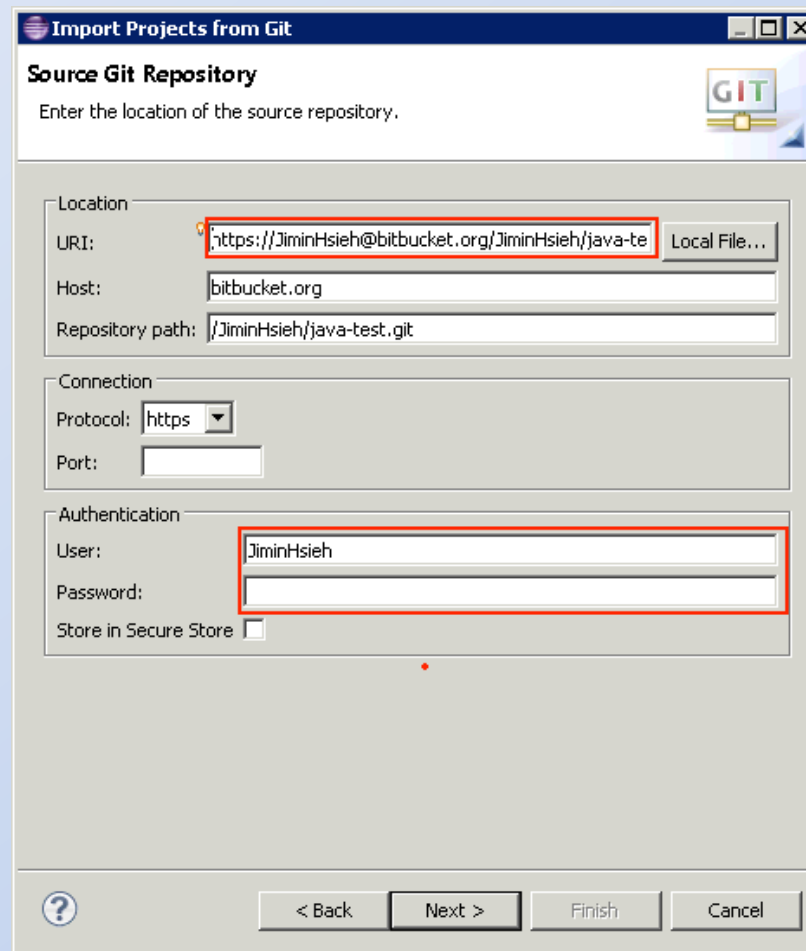
Eclipse Import Git Repository(con.)



Eclipse Import Git Repository(con.)



Eclipse Import Git Repository(con.)



The image shows the 'Import Projects from Git' dialog box in Eclipse. The dialog is titled 'Import Projects from Git' and has a 'Source Git Repository' section. Below this, it says 'Enter the location of the source repository.' There are three main sections: 'Location', 'Connection', and 'Authentication'. In the 'Location' section, the 'URI' field is highlighted with a red box and contains the text 'https://JiminHsieh@bitbucket.org/JiminHsieh/java-te'. The 'Host' field contains 'bitbucket.org' and the 'Repository path' field contains '/JiminHsieh/java-test.git'. In the 'Connection' section, the 'Protocol' is set to 'https' and the 'Port' field is empty. In the 'Authentication' section, the 'User' field is highlighted with a red box and contains 'JiminHsieh', and the 'Password' field is empty. There is a 'Store in Secure Store' checkbox which is unchecked. At the bottom of the dialog, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

Import Projects from Git

Source Git Repository
Enter the location of the source repository.

Location

URI: Local File...

Host:

Repository path:

Connection

Protocol:


Port:

Authentication

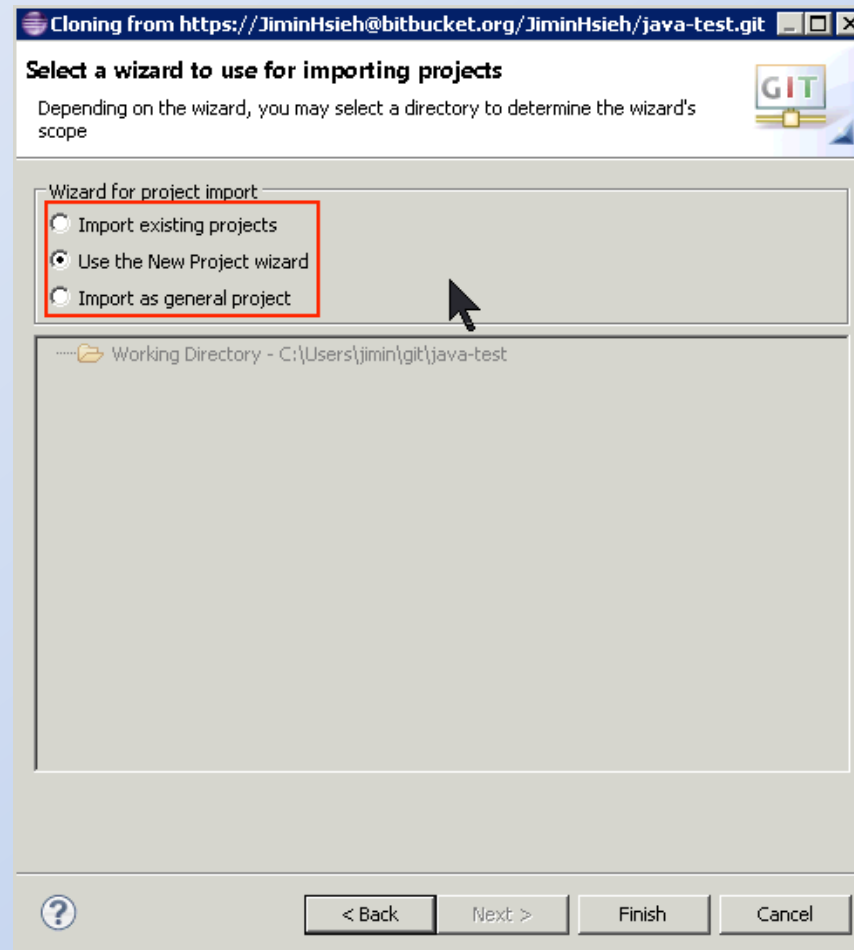
User:

Password:

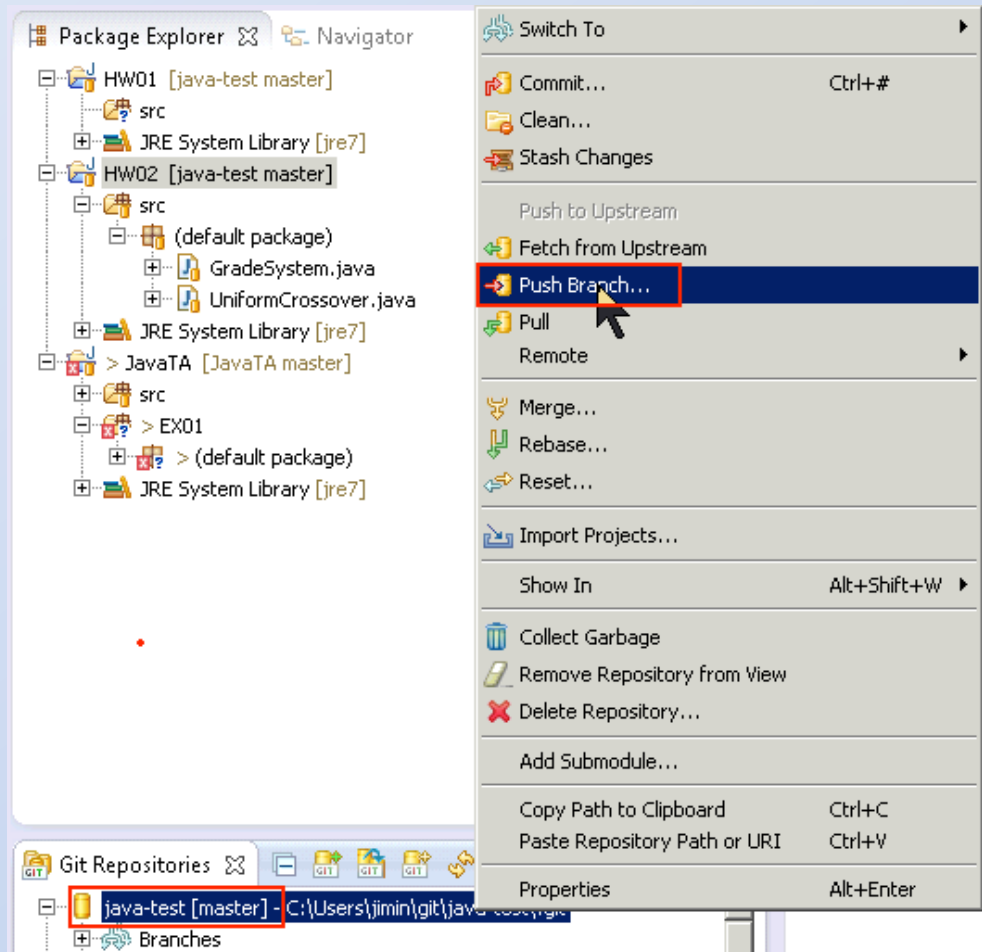
Store in Secure Store ☐

 < Back Next > Finish Cancel


Eclipse Import Git Repository(con.)





Push Repository





Check Bitbucket(con.)

 **Bitbucket** Teams ▾ Repositories ▾ [Create](#)

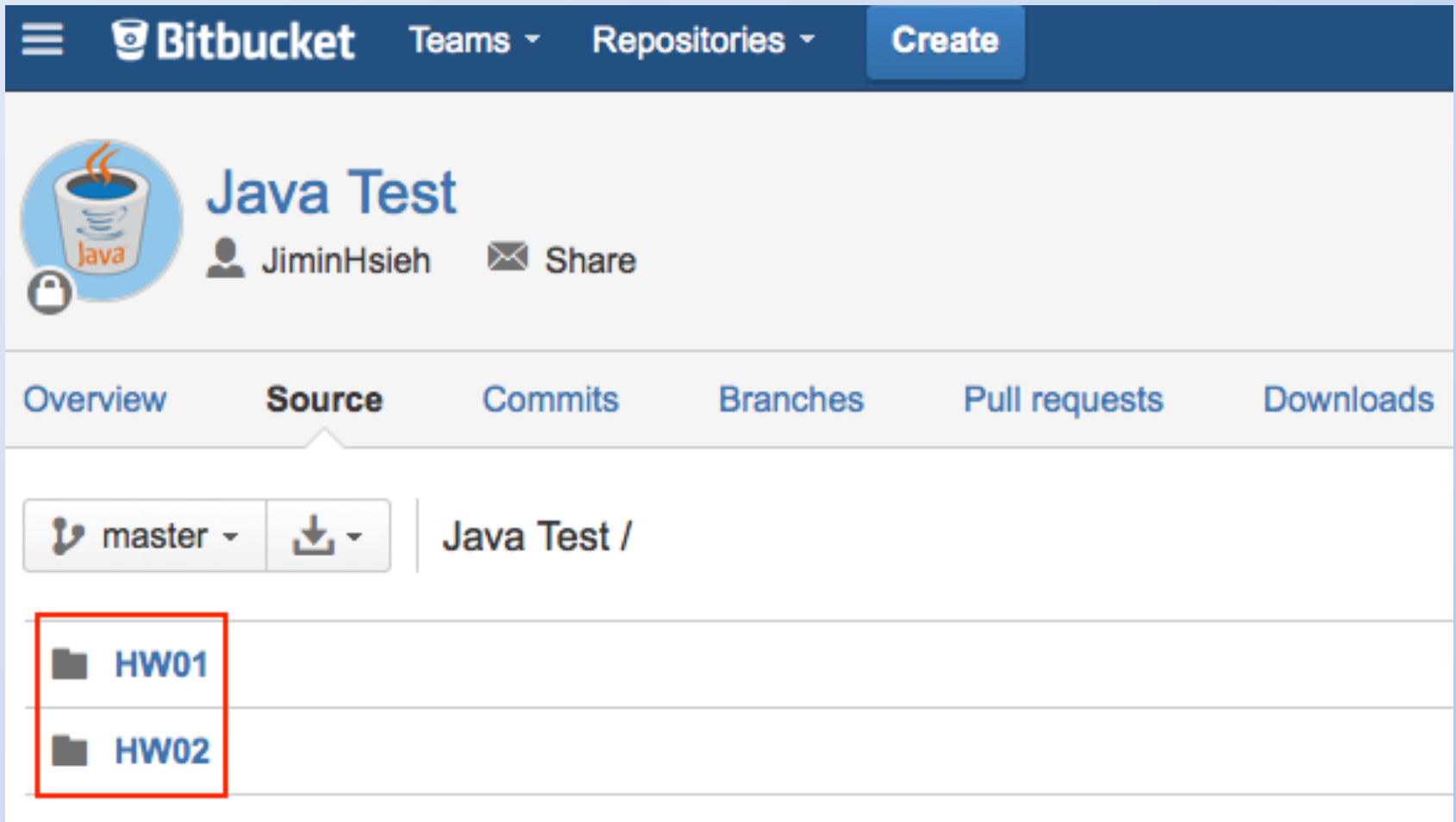
 **Java Test**
JiminHsieh  Share

[Overview](#) [Source](#) **Commits** [Branches](#) [Pull requests](#) [Downloads](#)

 All branches ▾


Author	Commit	Message
•  jimin	1dc5fad	Add Empty HW01 and Source Code of HW02

Check Bitbucket



The screenshot shows the Bitbucket web interface for a repository named 'Java Test'. The repository is owned by 'JiminHsieh'. The 'Source' tab is selected, showing a file tree with two folders, 'HW01' and 'HW02', which are highlighted with a red box. The interface includes a top navigation bar with 'Teams', 'Repositories', and a 'Create' button. Below the repository name, there are tabs for 'Overview', 'Source', 'Commits', 'Branches', 'Pull requests', and 'Downloads'. The 'Source' tab shows a dropdown for the 'master' branch and a download icon. The file tree lists 'HW01' and 'HW02' as folders.

Bitbucket Teams Repositories Create

 **Java Test** JiminHsieh Share

Overview **Source** Commits Branches Pull requests Downloads

master download Java Test /

- HW01
- HW02

Reference

- <http://www.vogella.com/tutorials/EclipseGit/article.html>

Q&A

Thanks for you attentions!