



Using the EGit Eclipse Plugin with GitHub

GitHub is a [web-based hosting service](#) for projects that use the [Git revision control](#) system. It is a social networking where you can share your code.

Warning!

GitHub officially supports msysgit (openssh) on windows and precompiled or self-compiled binaries on Mac and Linux.

What's Egit anyway?

[EGit](#) is an Eclipse plugin that uses a pure Java implementation of Git ([JGit](#)) to enable Eclipse projects to be controlled by a Git repository. EGit is under rapid development, I'm currently using version 0.5200908282229 (10-10-2009). As an Eclipse source control plugin it's not complete yet, but it has a lot going for it and gives you some goodies and visual clues on the state of your branch.

Egit has moved to the eclipse project recently

Here is what you will find in this tutorial:

- Installing EGit
- Importing an existing Eclipse project from Github
- Uploading your Eclipse project to Github
- Git operations from inside Eclipse

Installing EGit

You can add the EGit update site to Eclipse and install it like any other plugin. Add the following site <http://www.jgit.org/updates> to Eclipse and install it.

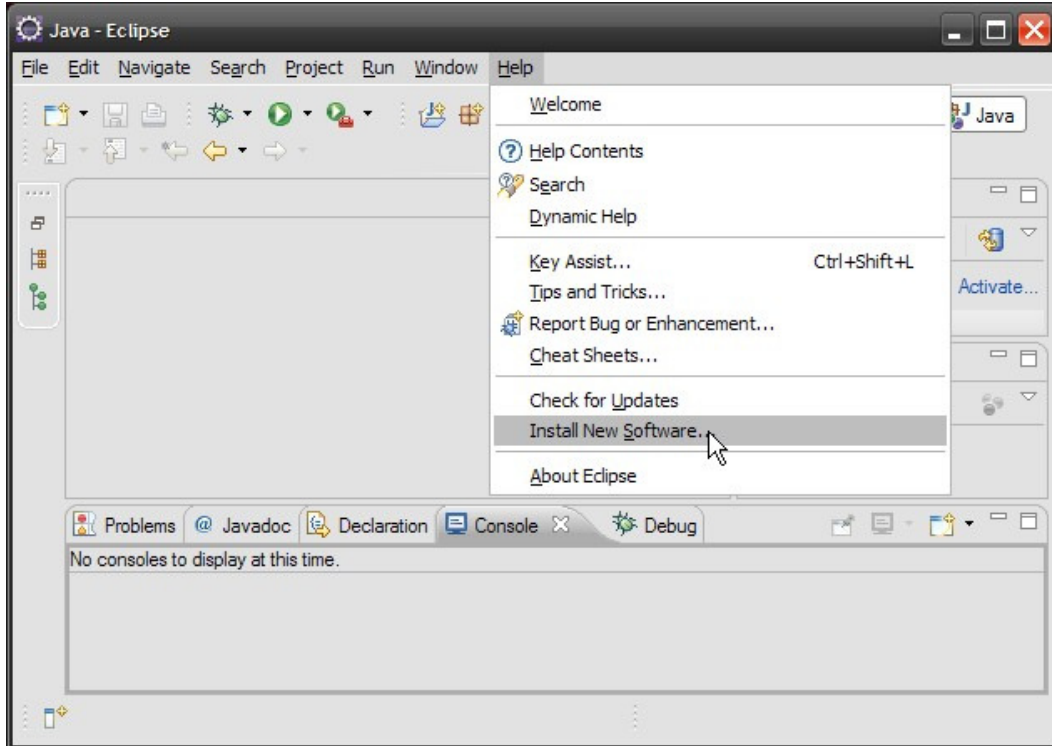
Don't know how to do this? Follow the steps from this tutorial:



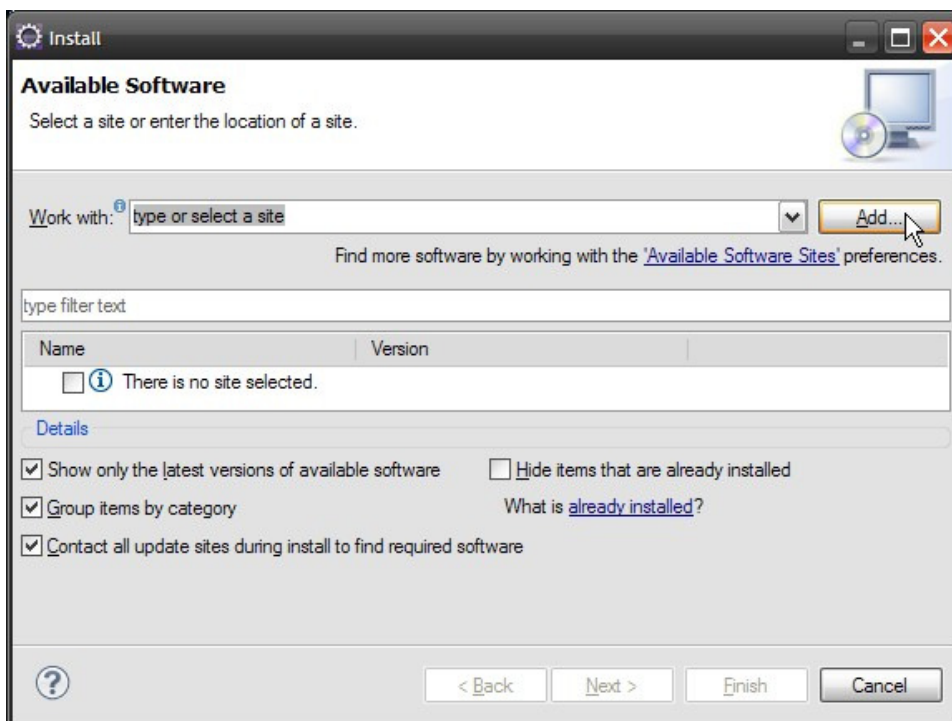
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1- Open Eclipse IDE, go to Help and click on Install New Software:



2- The following window will open. Click on Add:

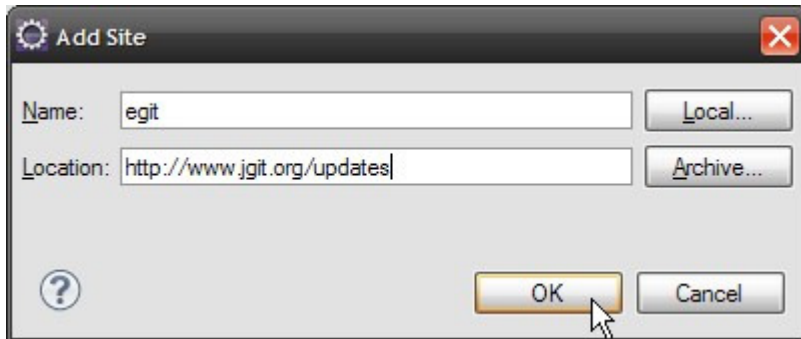




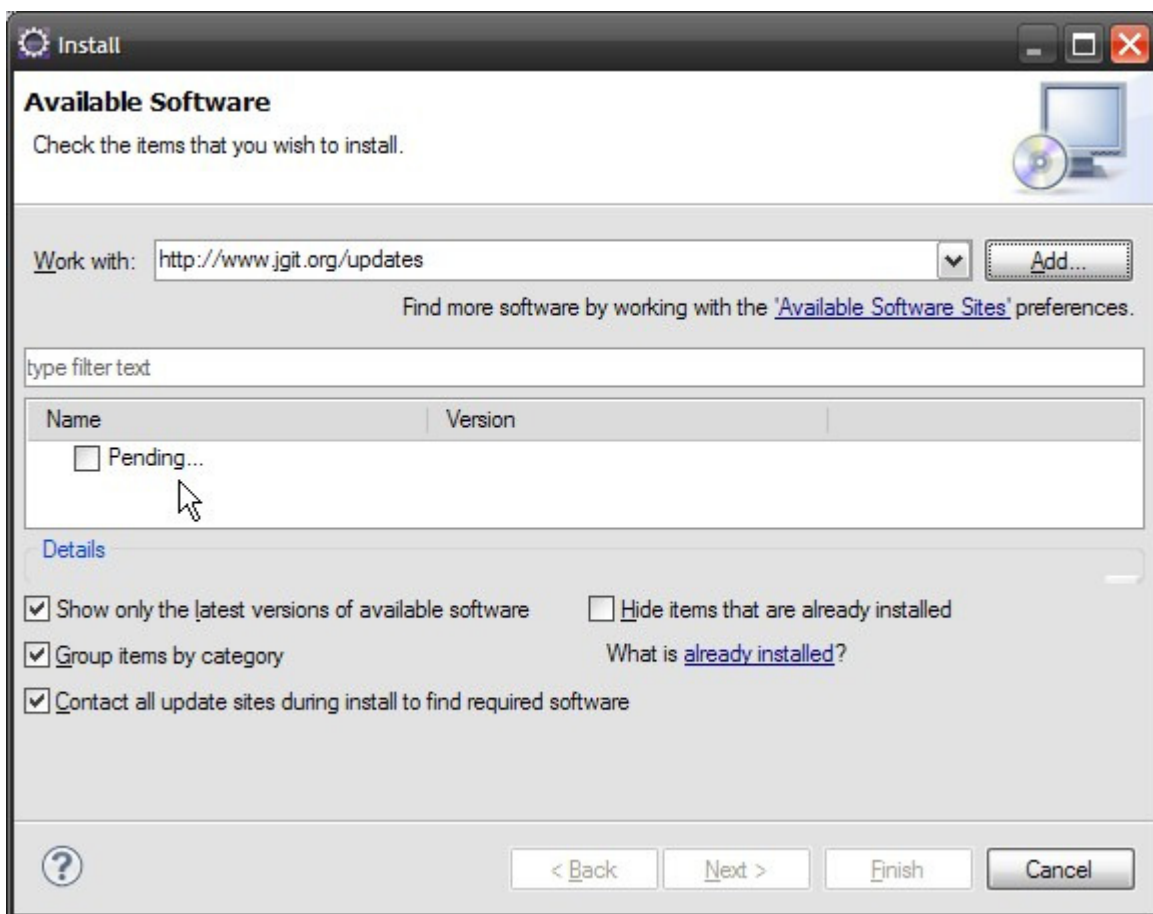
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3- Type a name for Egit update site (I named it egit) and paste this url <http://www.jgit.org/updates> on Location. Click on OK:



4- Wait for just a few seconds. Eclipse is going to search for the plugin in the update site you informed:

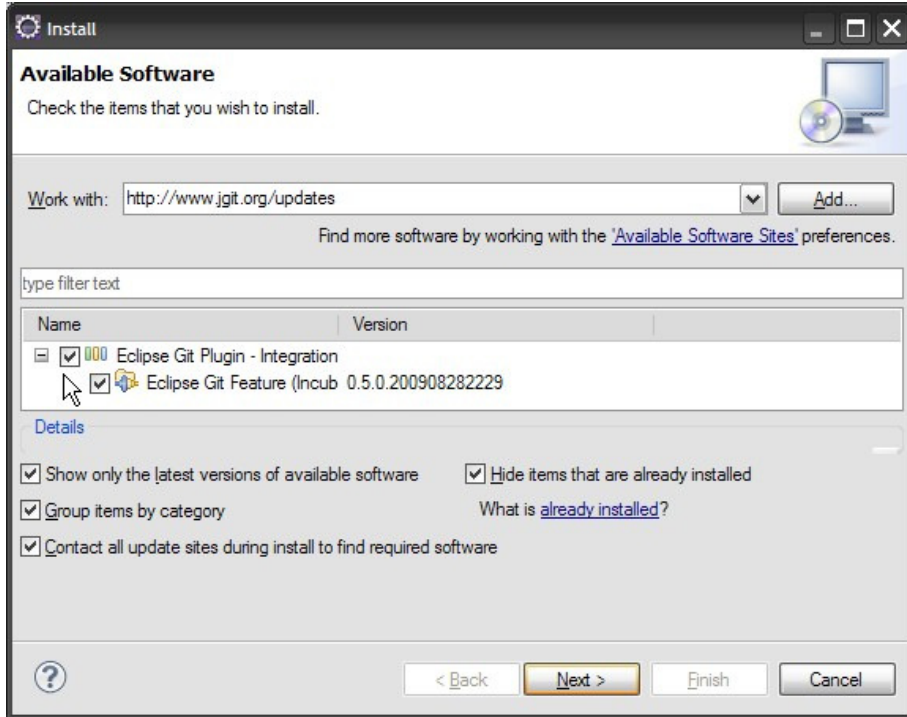




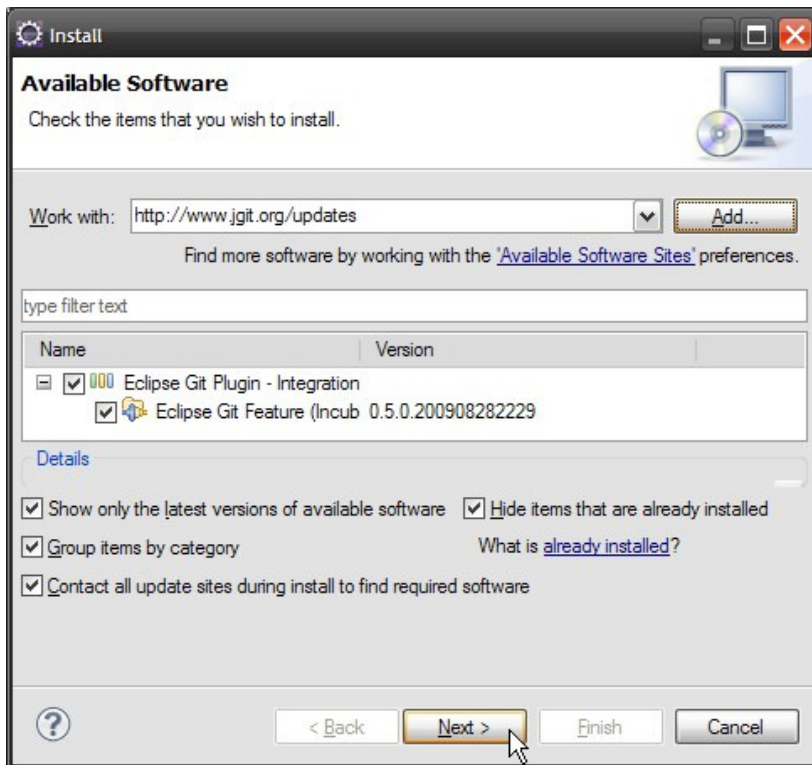
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5- Select the plugin checkbox:



6- Click on Next:

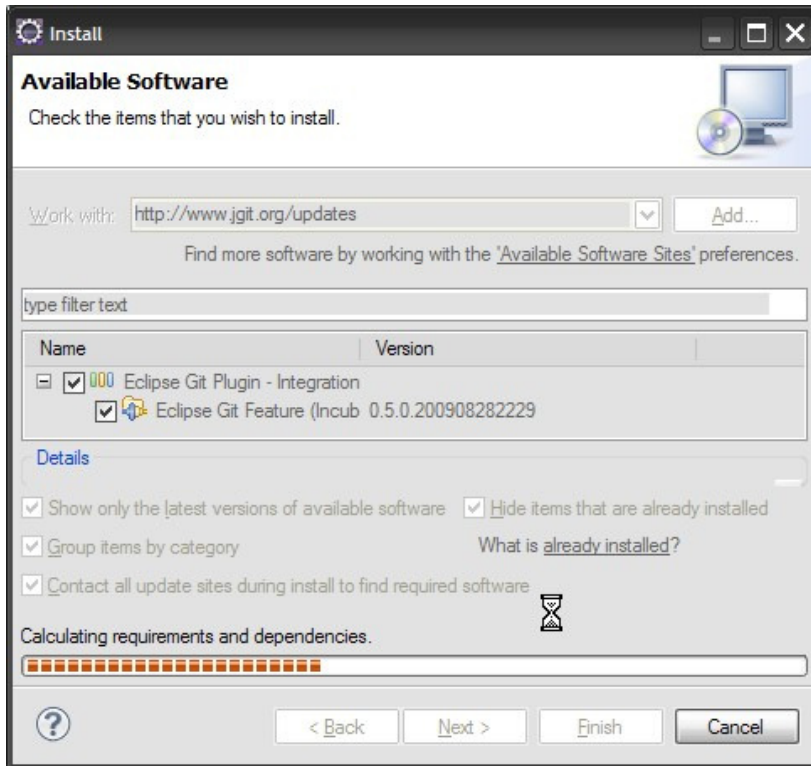




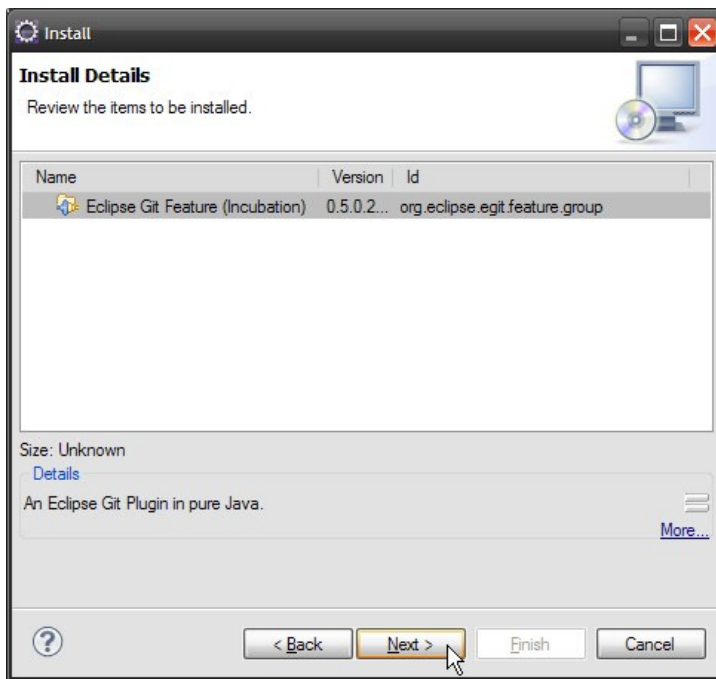
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7- Wait for a few seconds. Eclipse is going to verify the plugin compatibility (with your IDE version) and required packages:



8- Click on Next:

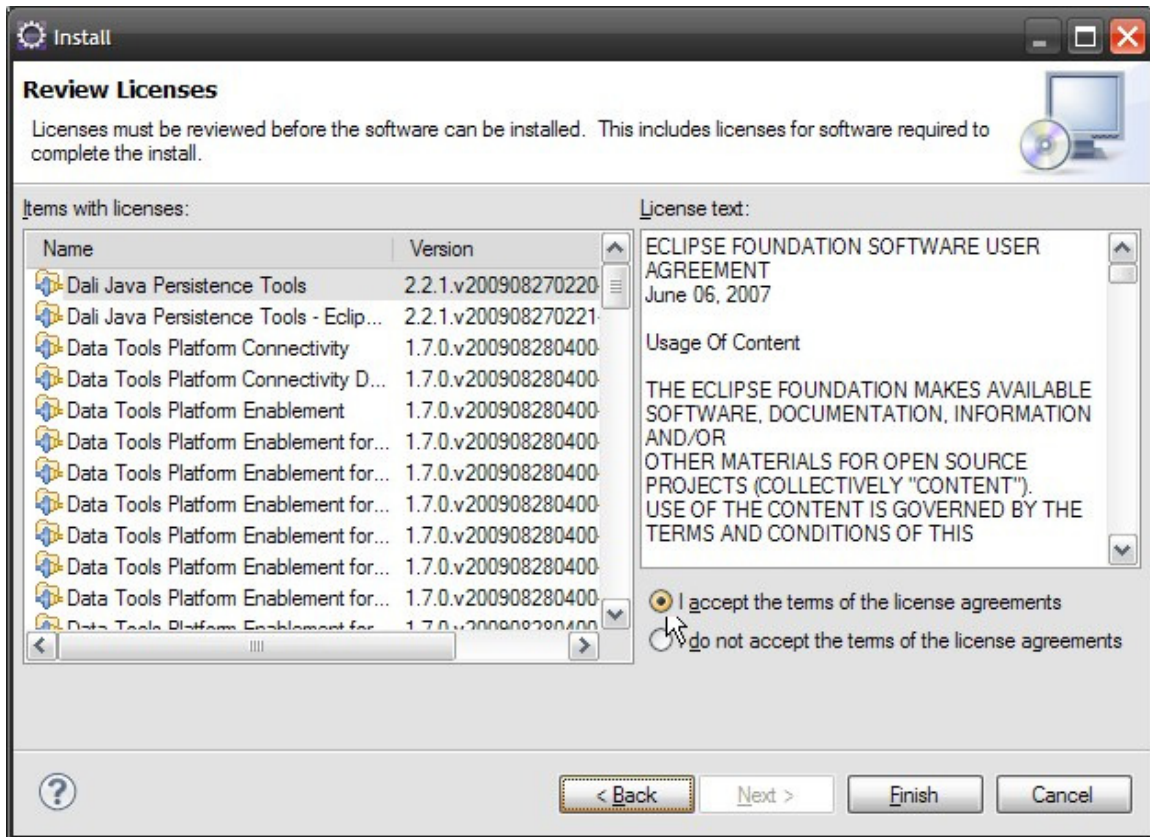




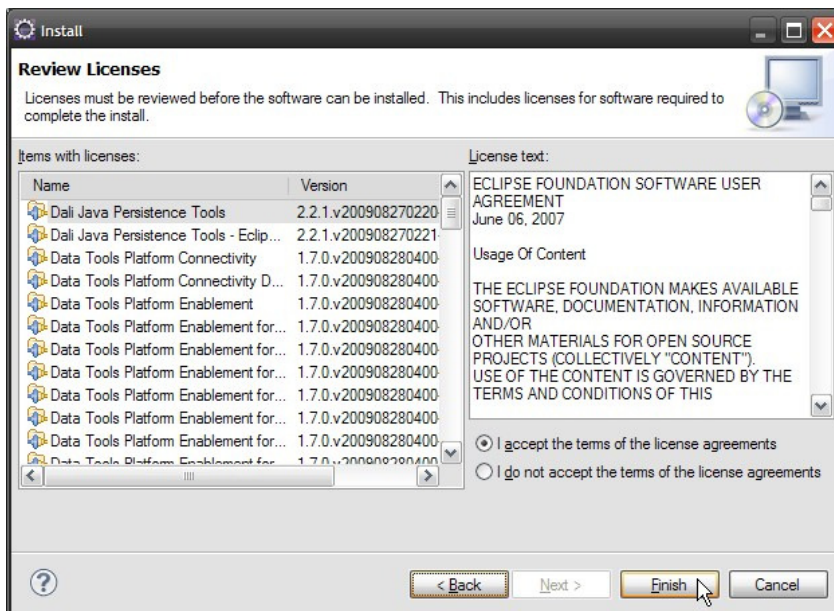
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9- Accept the terms of the license agreements:



10- Click on Finish:

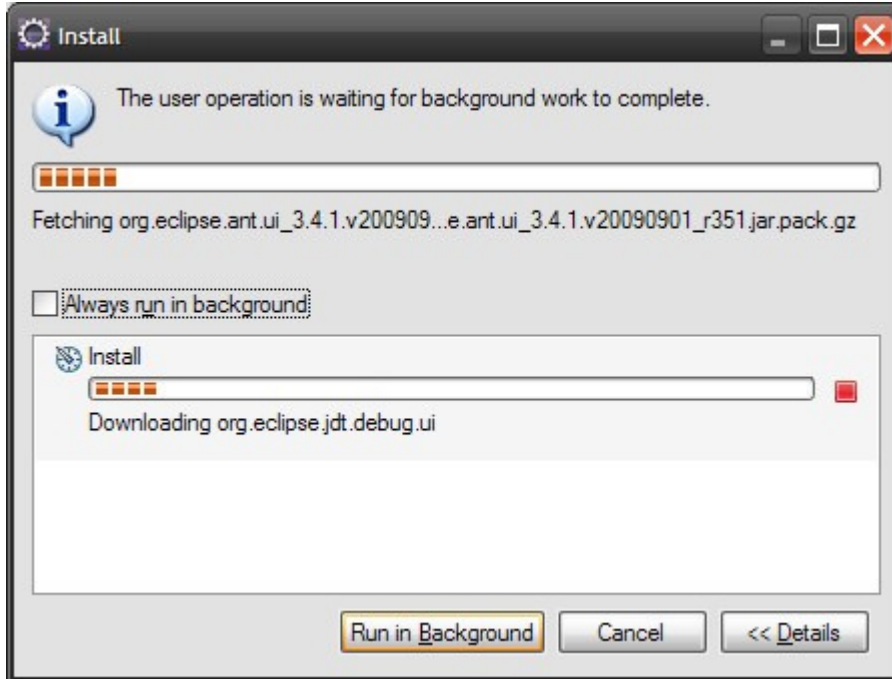




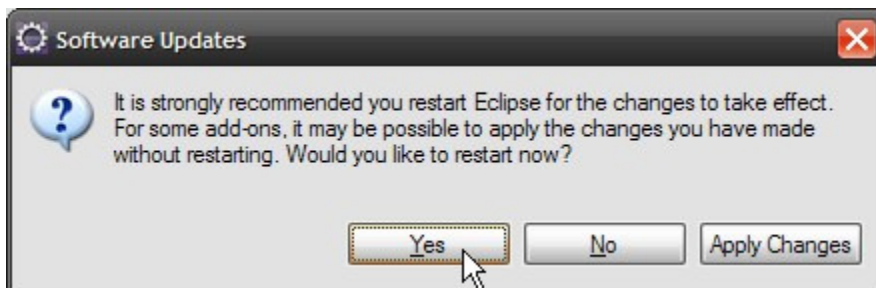
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11- Wait for a few minutes Maybe 5-10 minutes.:



12- Installation completed! Click on Yes to restart Eclipse IDE and reload your modifications:

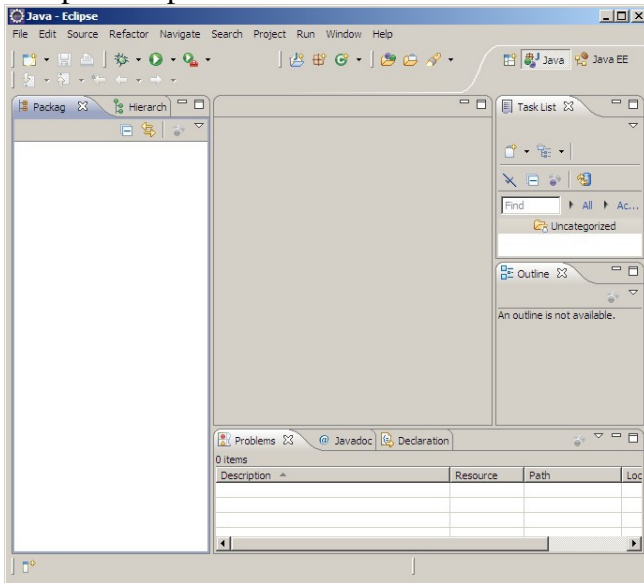


13- It is ready to use!

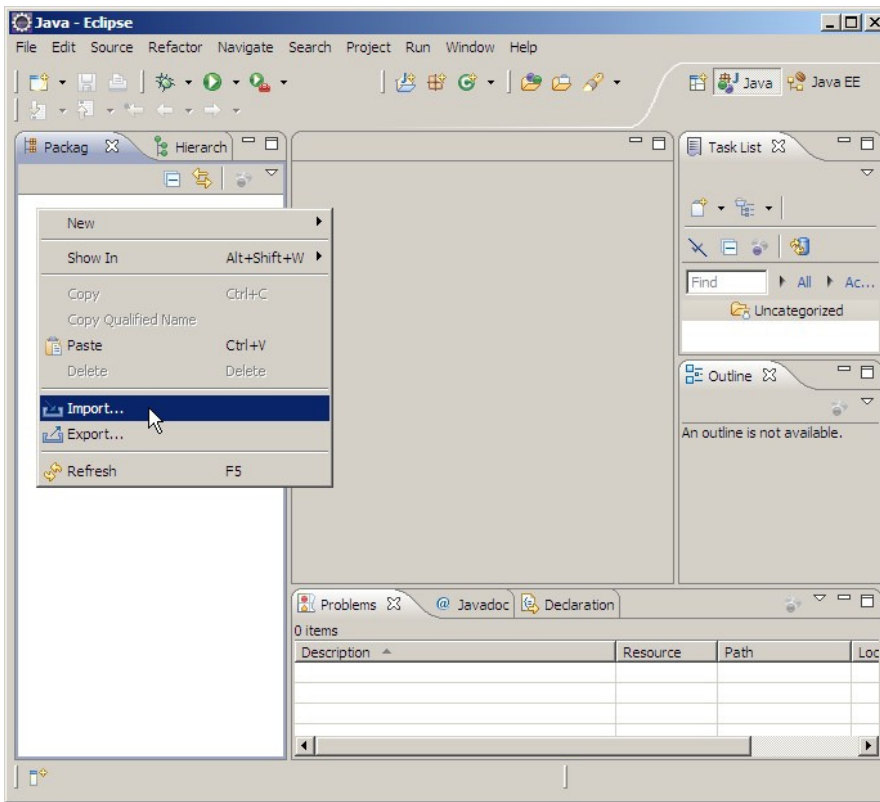


Importing and existing Eclipse project from Github

1- Open Eclipse IDE:

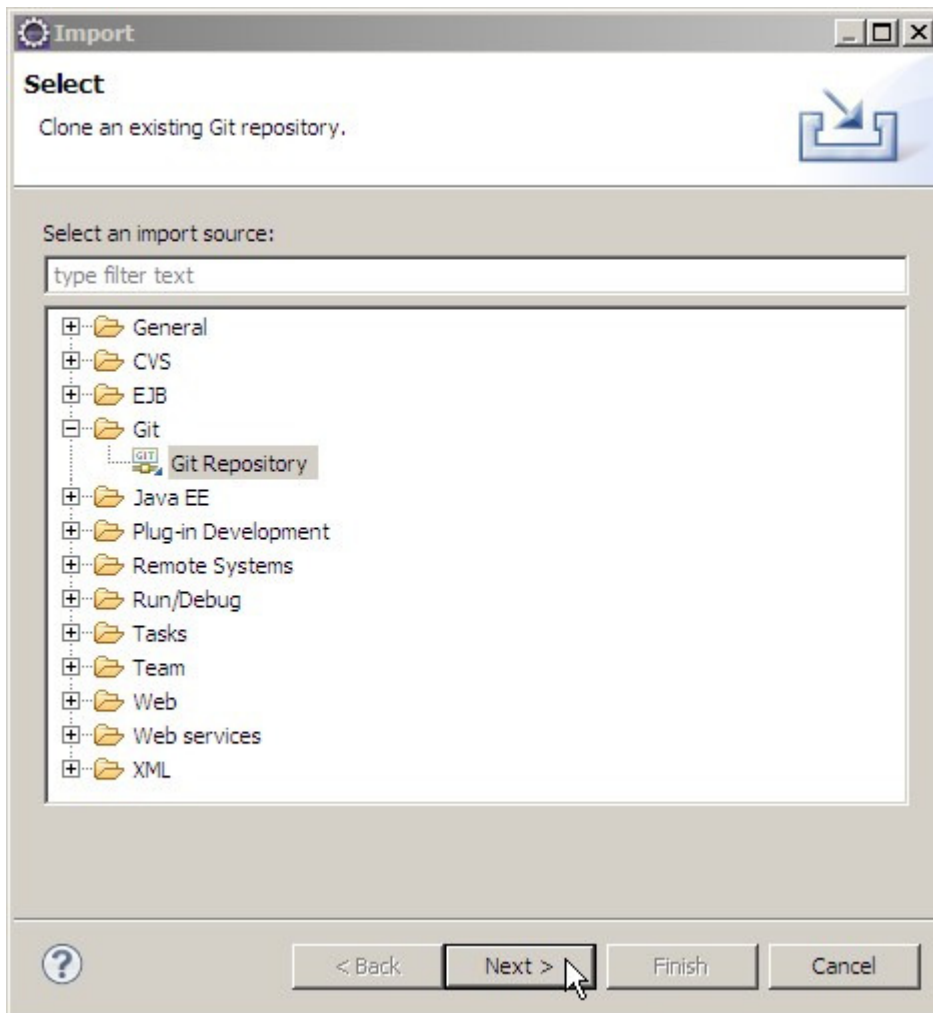


2- On Package Explorer view, right click on blank area and click on Import:





3- Find the folder named Git and choose Git Repository. Click on Next:





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4- Open the github project page you would like to import and copy Your Clone URL:

The screenshot shows the GitHub repository page for 'loiane / ManipulacaoXMLComSAX'. At the top, there are buttons for 'edit', 'pull request', 'unwatch', and 'download'. Below these, the repository description is 'Manipulando arquivos XML em Java com a API SAX - Parte II'. The 'Public Clone URL' is 'git://github.com/loiane/ManipulacaoXMLComSAX.git' and the 'Your Clone URL' is 'git@github.com:loiane/ManipulacaoXMLComSAX.git'. A hand icon points to the 'copy to clipboard' button next to the 'Your Clone URL'. Below the repository information, there is a commit history table.

name	age	message	history
.classpath	2 days ago	Manipulando arquivos XML em Java com a API SAX ... [loiane]	
.project	2 days ago	Manipulando arquivos XML em Java com a API SAX ... [loiane]	
README	2 days ago	Manipulando arquivos XML em Java com a API SAX ... [loiane]	
contato.xml	2 days ago	Manipulando arquivos XML em Java com a API SAX ... [loiane]	
src/	2 days ago	Manipulando arquivos XML em Java com a API SAX ... [loiane]	

5- Back to Eclipse, paste the URL on the URI:

The screenshot shows the 'Import Git Repository' dialog in Eclipse. The 'Source Git Repository' section has a red 'X' icon and the text 'Host not supported on file protocol.' Below this, the 'Location' section has three text boxes: 'URI:' with 'git@github.com:loiane/ManipulacaoXMLComSAX.git', 'Host:' with 'github.com', and 'Repository path:' with 'loiane/ManipulacaoXMLComSAX.git'. The 'Connection' section has a 'Protocol:' dropdown menu set to 'file' and an empty 'Port:' text box. The 'Authentication' section has a 'User:' text box with 'git' and an empty 'Password:' text box. At the bottom, there are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.



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6- There is an error. Let's fix it: change Protocol to git+ssh:

Import Git Repository

Source Git Repository

Enter the location of the source repository.

Location

URI:

Host:

Repository path:

Connection

Protocol:

Port:

Authentication

User:

Password:

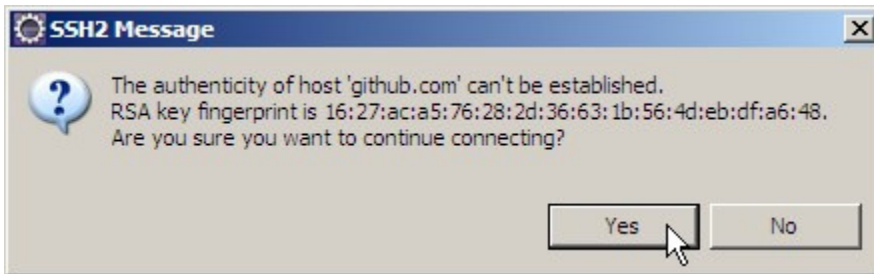
7- You only need to fill the URI field. EGit will parse it and fill the other fields for you. You'll be identifying using your ssh key so there's no password needed for the git user. Unfortunately, the EGit plugin no longer parses git@github.com URLs correctly. Make sure to choose the git+ssh protocol and enter github.com as your host, correct the path and the URL will be adjusted accordingly. The resulting URL will look like this: git+ssh://git@github.com//.git. Click on Next.



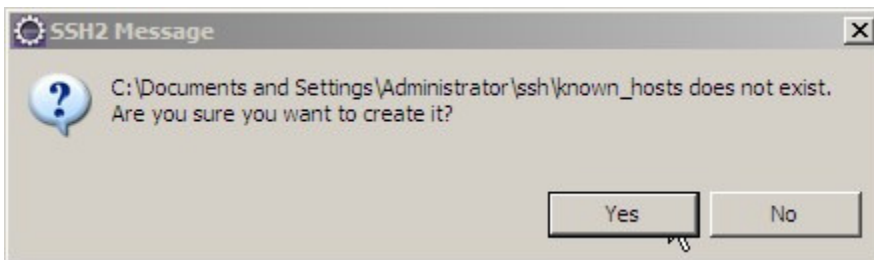
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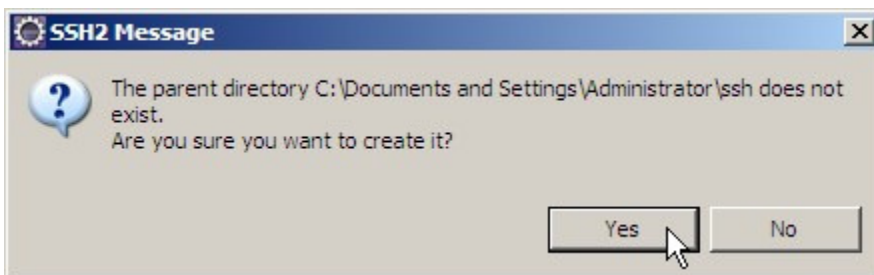
8- If this is the first time you are setting up Egit in your machine, and you are a Windows user, it is possible you will get the following error message (Auth Fail):



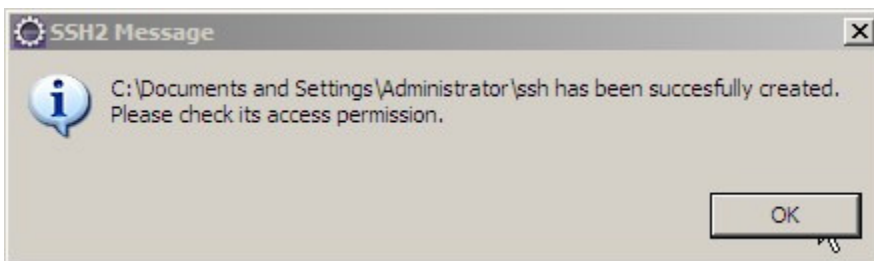
9- In case of this message appears to you, click on Yes and follow next steps. Otherwise go to step 15:



10- Click on Yes:



11- Click on OK:

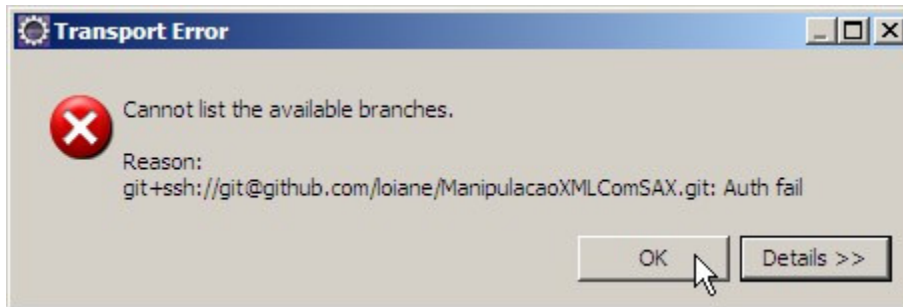




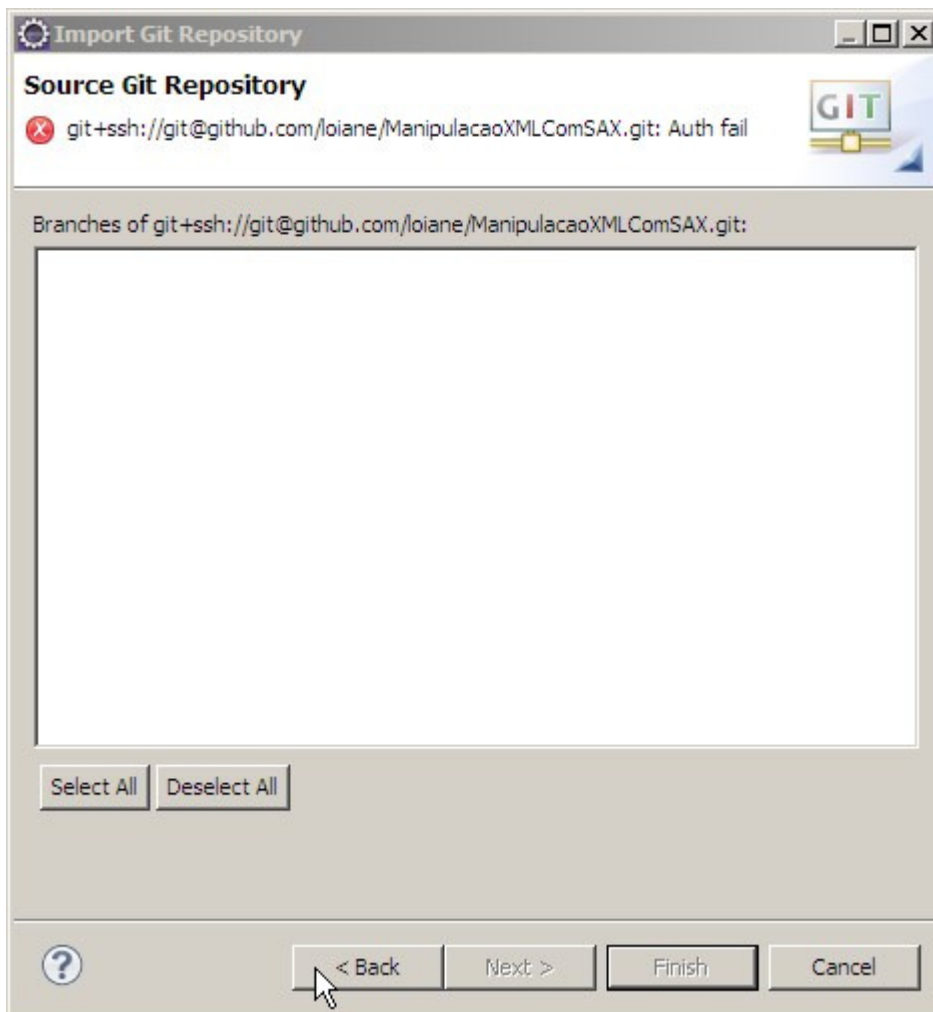
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12- The following error message should appear. Click on OK:



13- Read step 14 to fix this error:

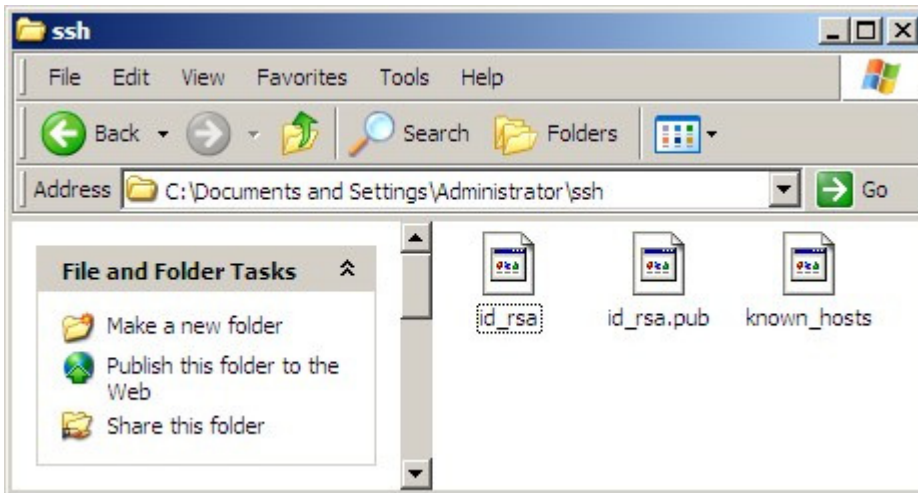




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14- When you created your public key, you must created it in the .ssh folder (C:\Documents and Settings\{user}\.ssh), and Egit tries to get your public key from ssh folder (C:\Documents and Settings\{user}\ssh). That is why you get the auth fail error message. You have to allow Egit to create ssh folder (C:\Users\{user}\ - Windows Vista users). But, until now, you just created the folder. Your public key is not in there. You need to copy your files from .ssh directory to ssh directory. When you are done, restart Eclipse IDE and follow the steps 1 to 7 again, and go to step 15:



15- Wait for a few seconds. Eclipse is getting required information from Github:



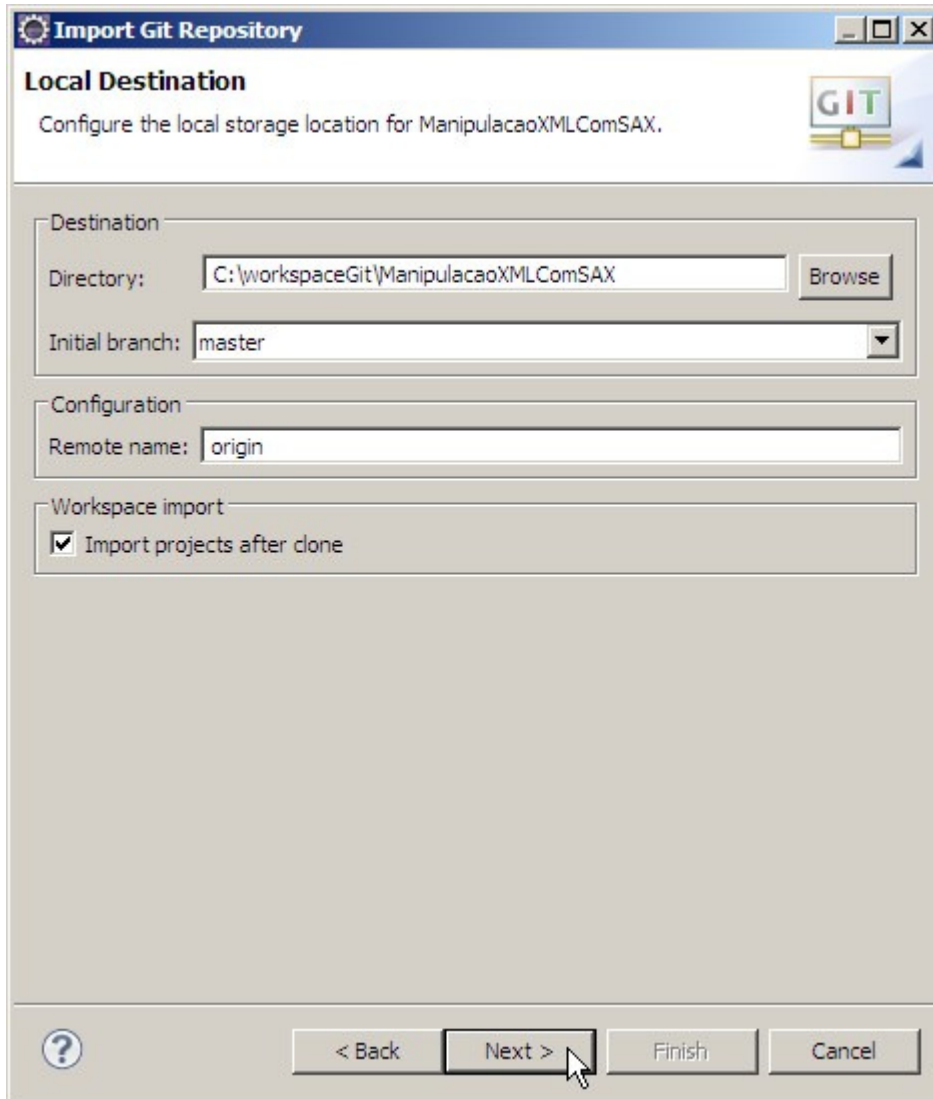


16- Select your branch (Master) and click on Next:



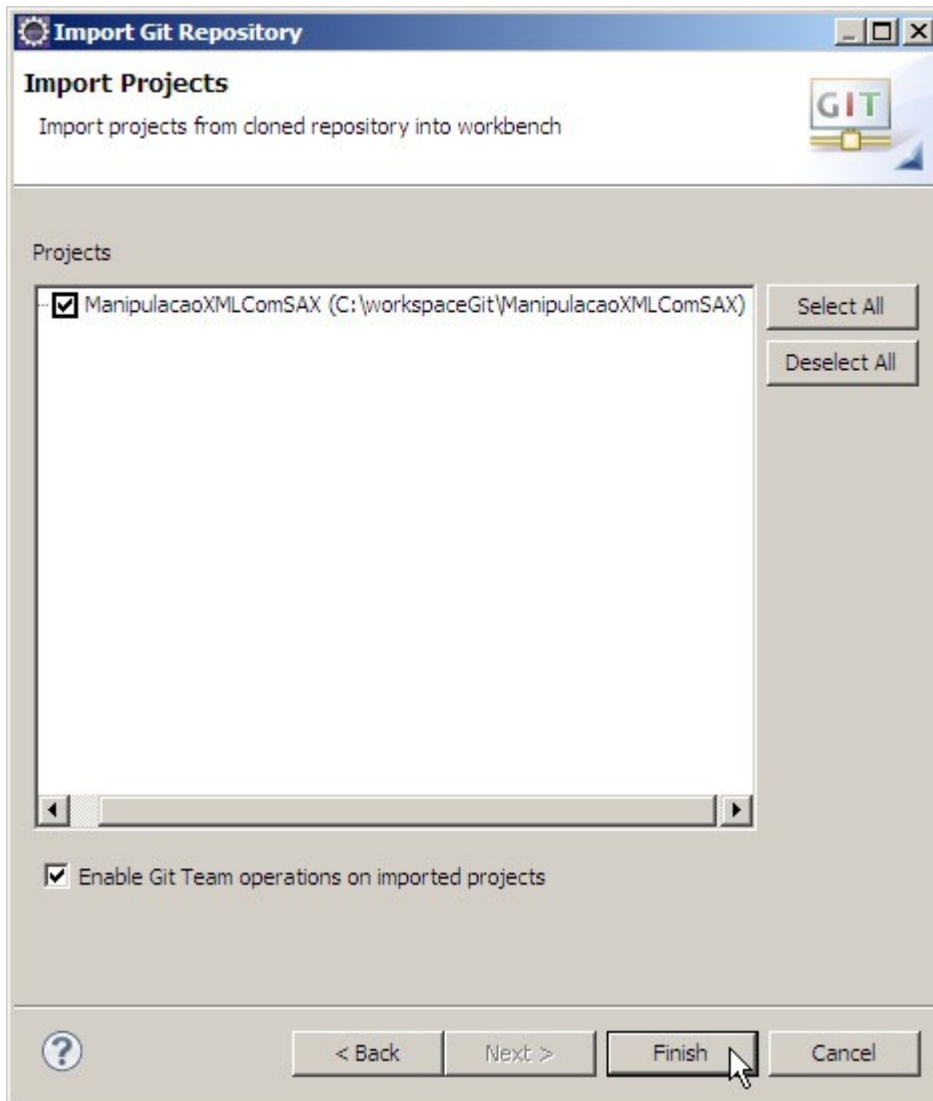


17- Select the option Import Projects after clone and fill the directory field with your workspace directory. Click on Next:





18- Select the project you want to import to your workspace and click on Next:

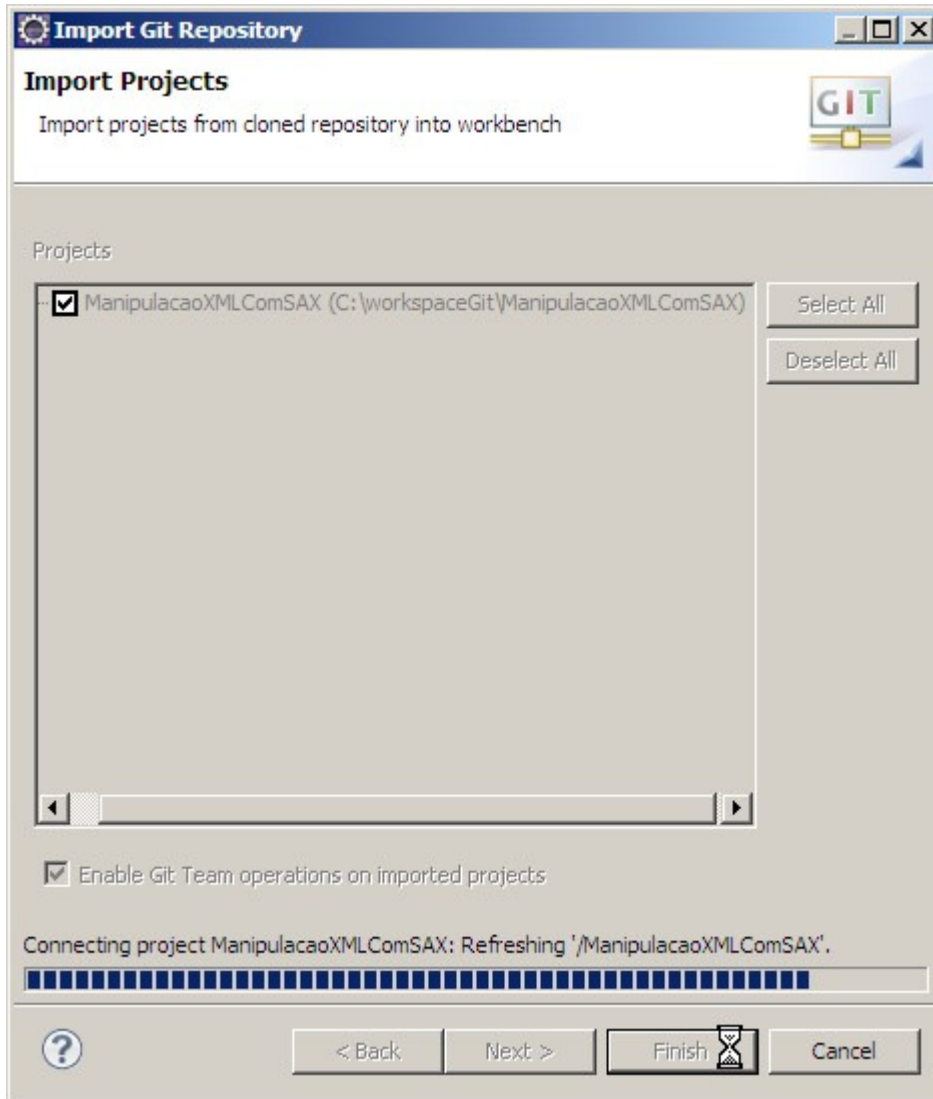




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19- Wait for a few seconds while Eclipse is importing and downloading the project from Github:

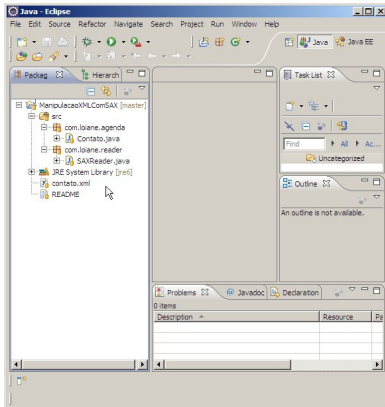




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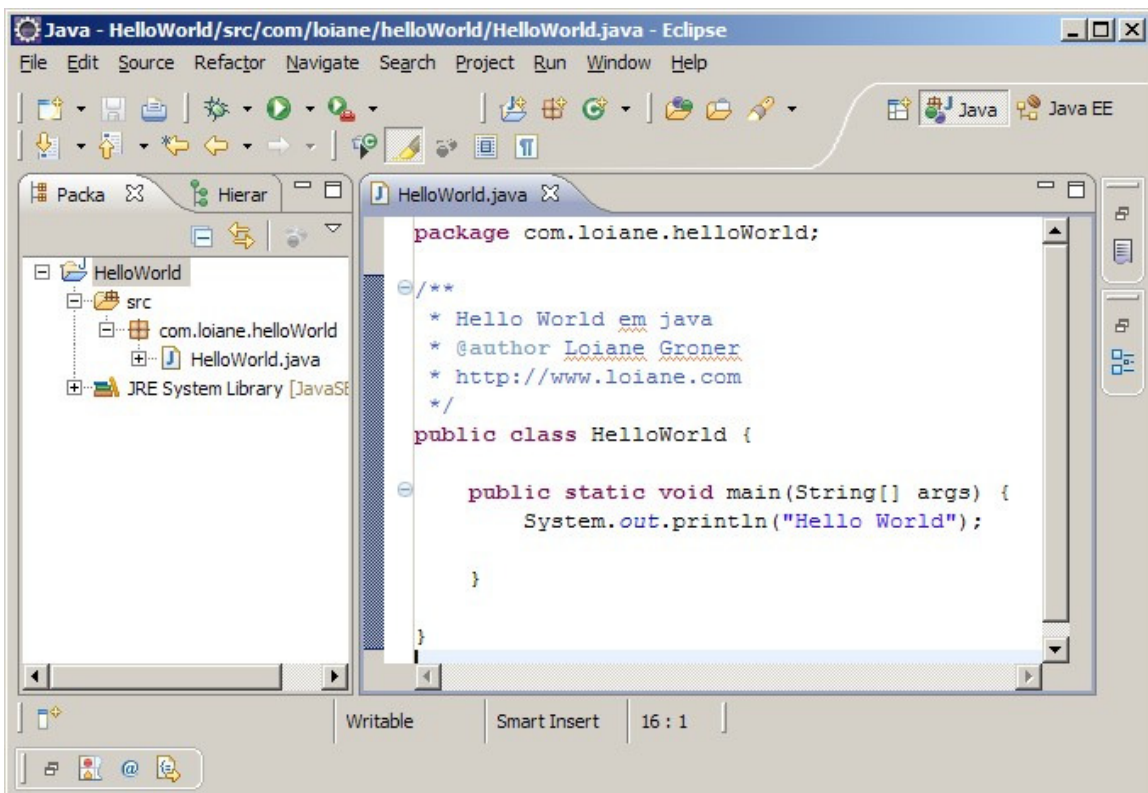
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20- Done! Now your project is under git control.



Uploading your Eclipse project to GitHub

1- Open the project you want to share and upload to Github. Let's upload a HelloWorld project:

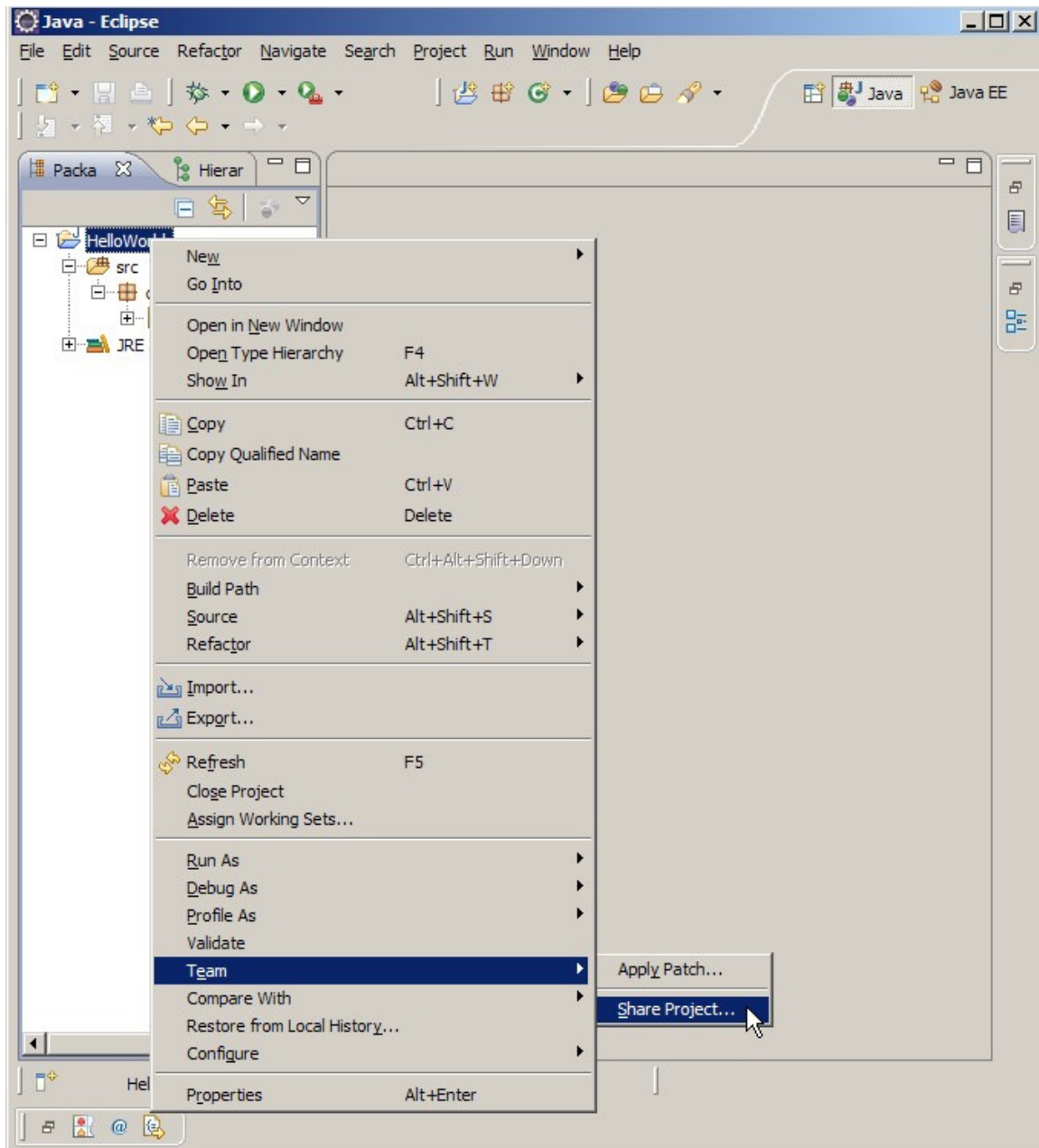




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2- Right click on project root, go to Team and choose Share Project:

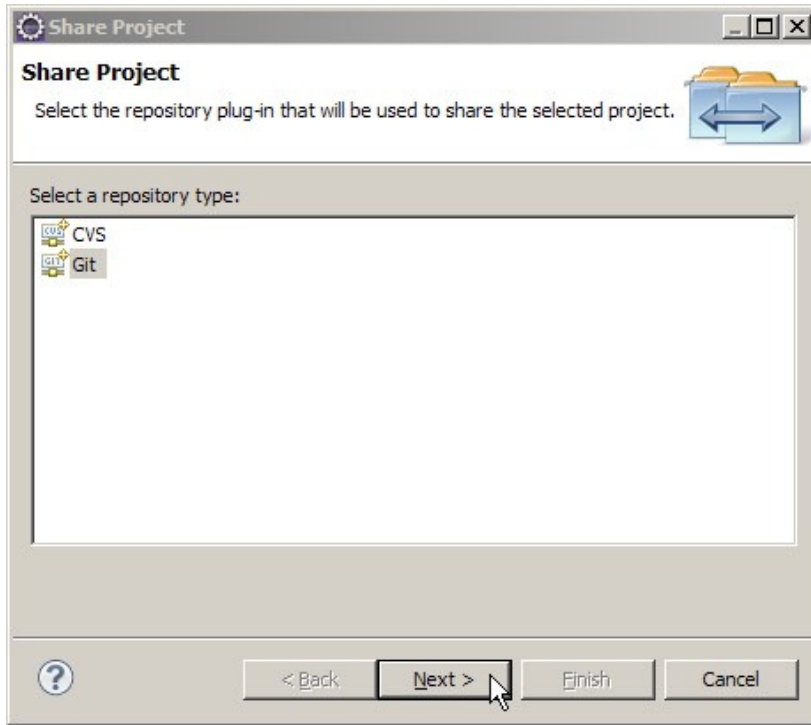




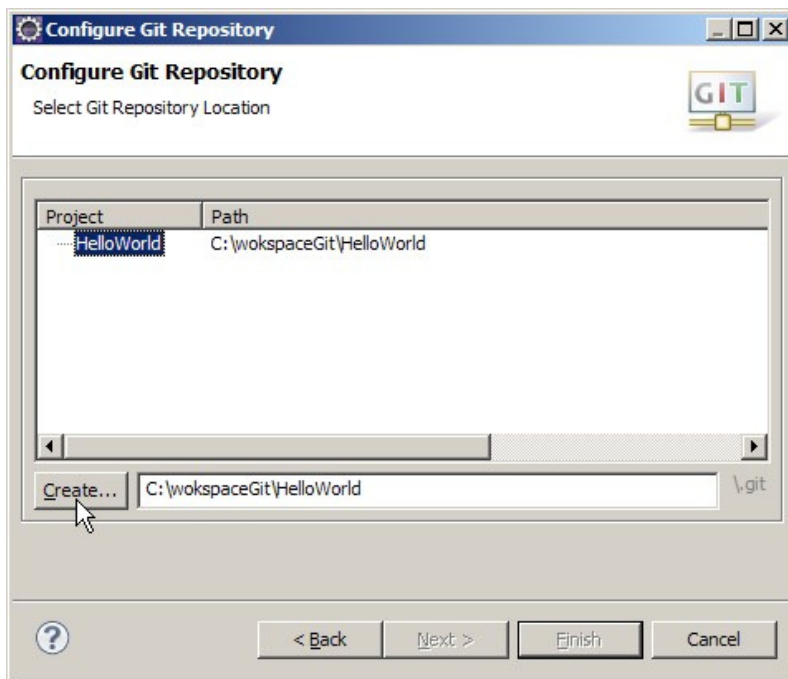
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3- Choose GIT repository type and click on Next:

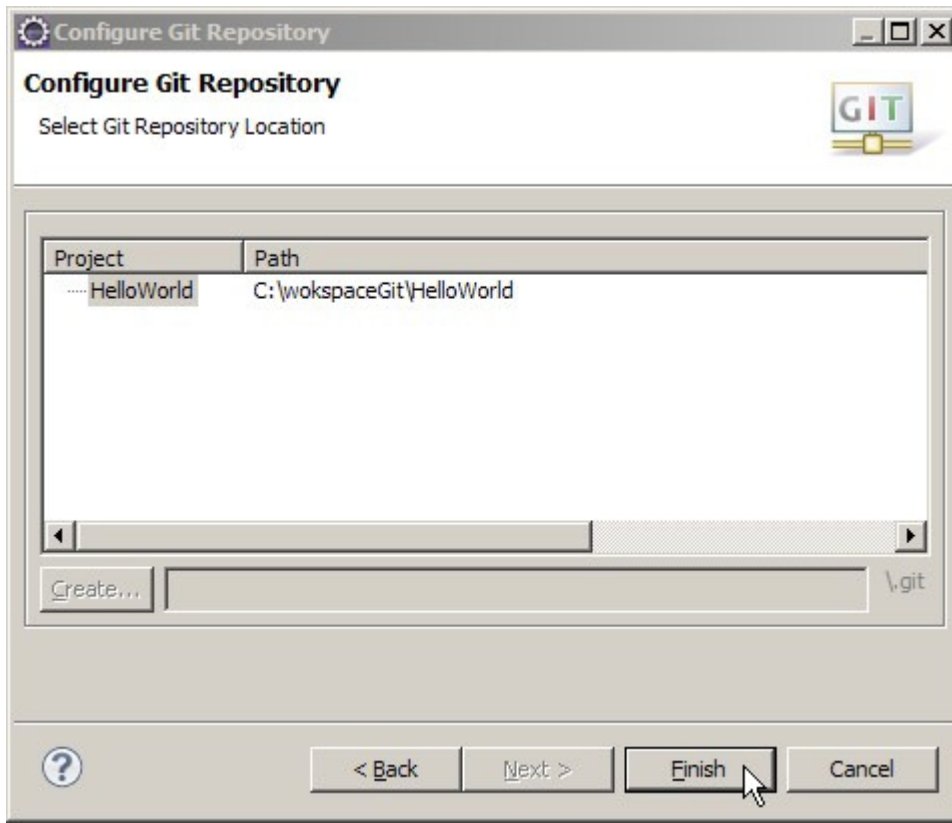


4- Select the projec you want to share and click on Create to create .git control files:

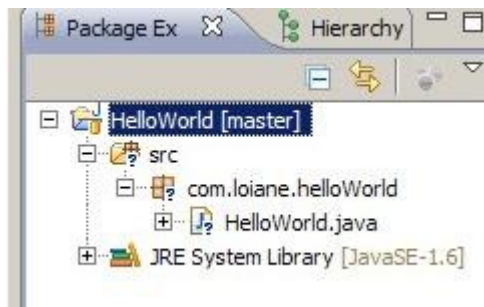




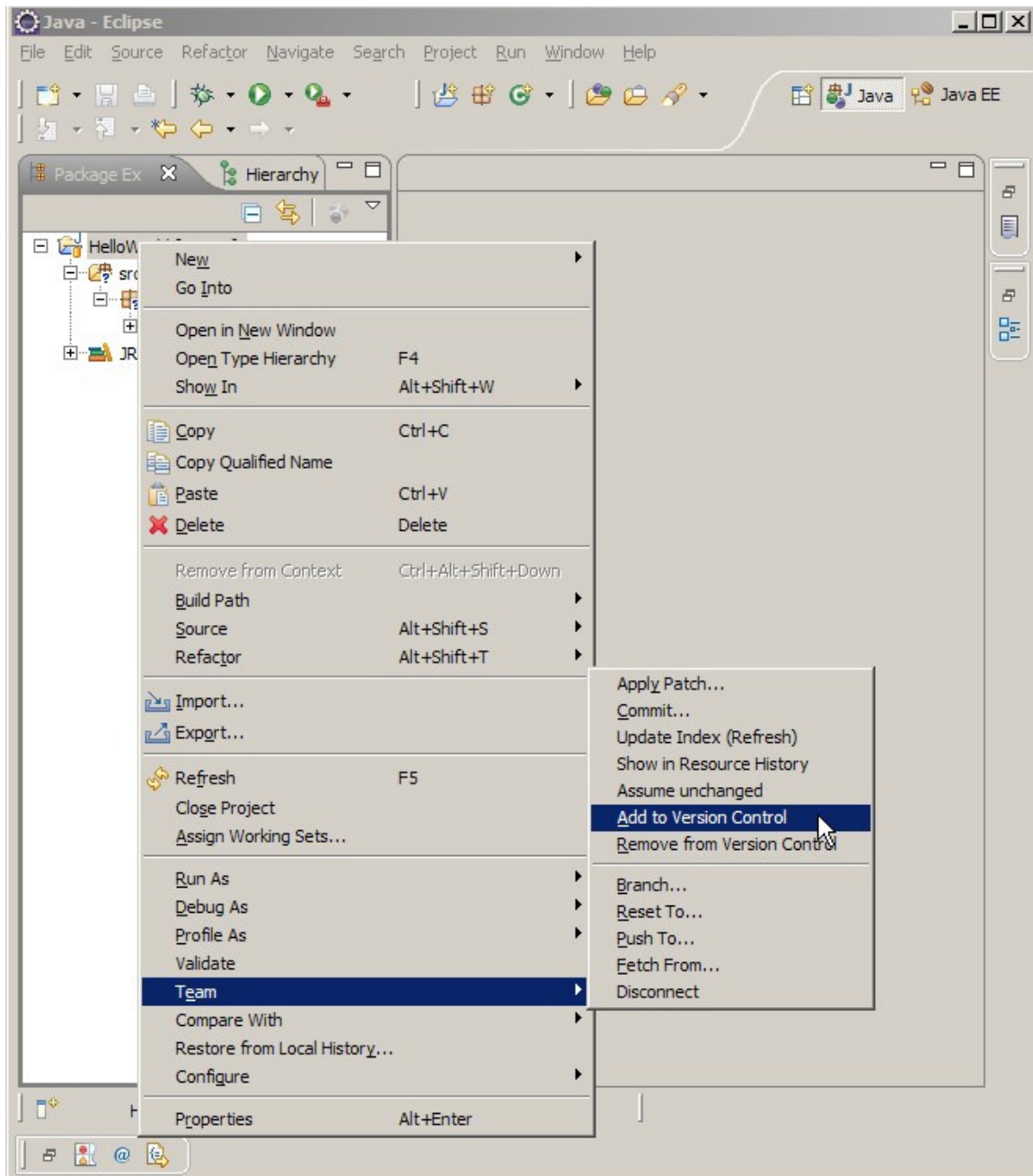
5- Click on Finish:



6- Lets add all the files to git control:



7- Right click on project root, go to Team and choose Add to Version Control:

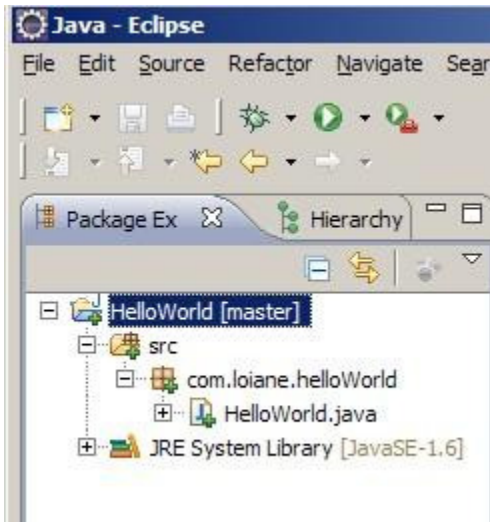




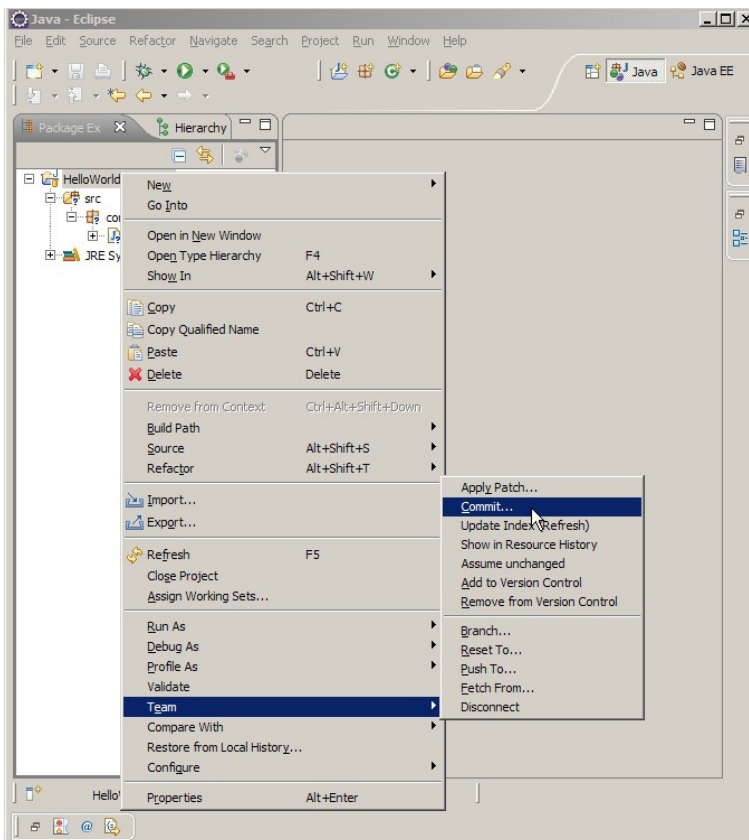
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8- You added all your files to git control (+ icon). Now you need to commit your files.



9- To commit all your files at once, right click on project root, go to Team and choose Commit:

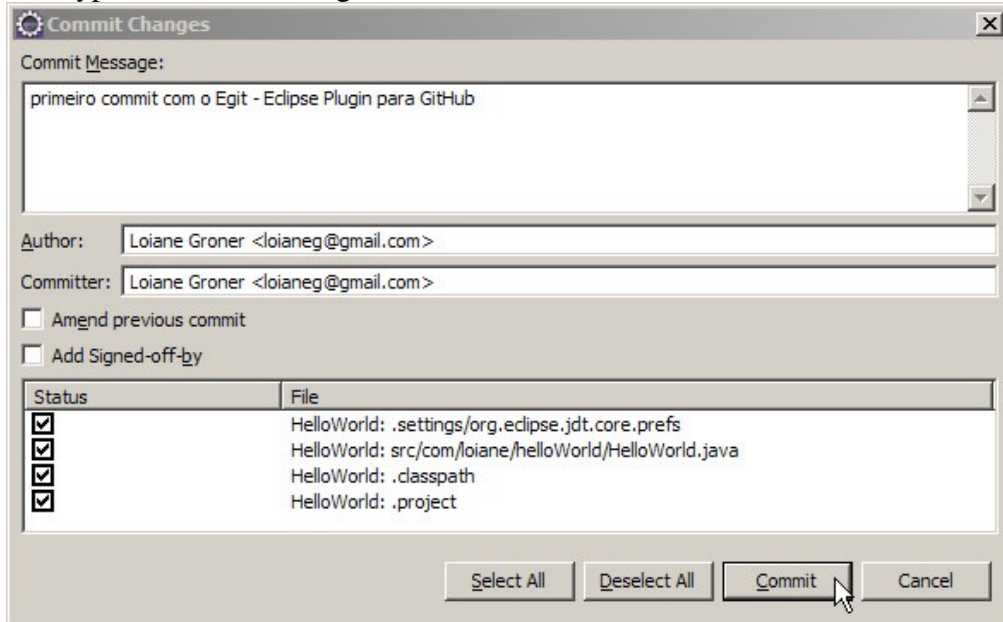




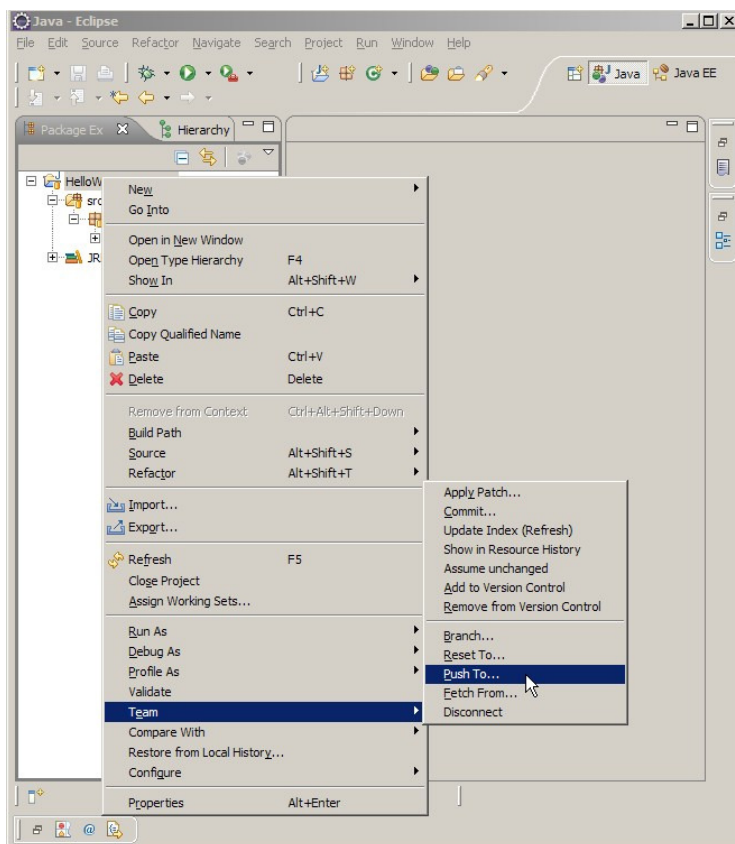
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10- Type a commit message and click on Commit.



11- Now you just need to push your files to GitHub repository:





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12- Fill the form with your GitHub information:

Push To Another Repository

Destination Git Repository
Enter the location of the destination repository.

Location

URI:

Host:

Repository path:

Connection

Protocol:

Port:

Authentication

User:

Password:

13- If you do not have a GitHub repository, let's create one for you:

Create a New Repository

Create a new empty repository into which you can push your local git repo.

NOTE: If you intend to push a copy of a repository that is already hosted on GitHub, please [fork](#) it instead.

Project Name

HelloWorld

Description

Hello World Java

Homepage URL

<http://www.loiane.com>

Who has access to this repository? (You can change this later)

☒ **Anyone** ([learn more about public repos](#))

☐ [Upgrade your plan to create more private repositories!](#)

Create Repository



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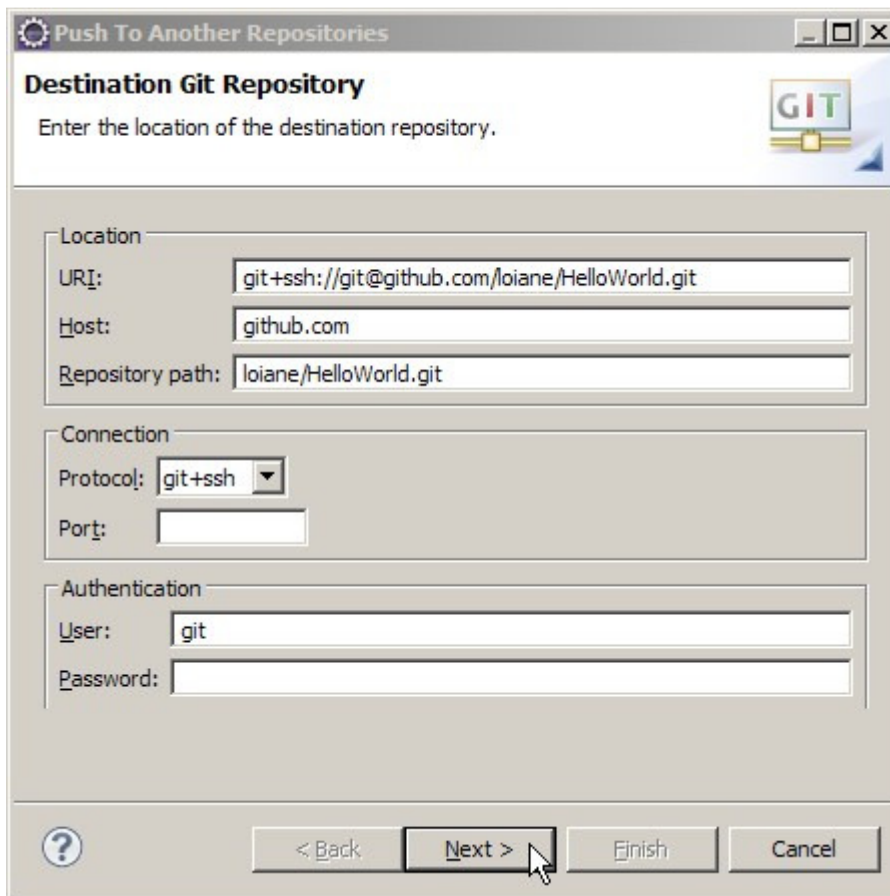
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14- Click on Create Repository, you will be redirected to the following page. Copy Your Clone URL:



Global setup:

15- Click on Next:

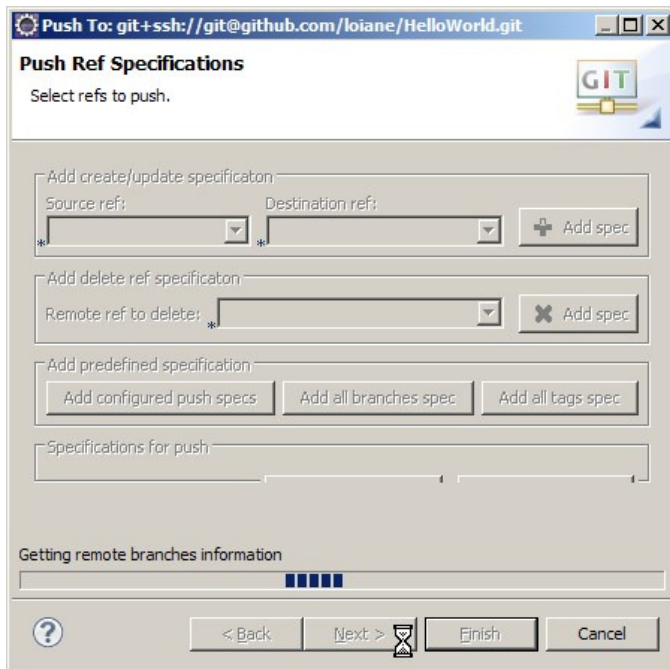




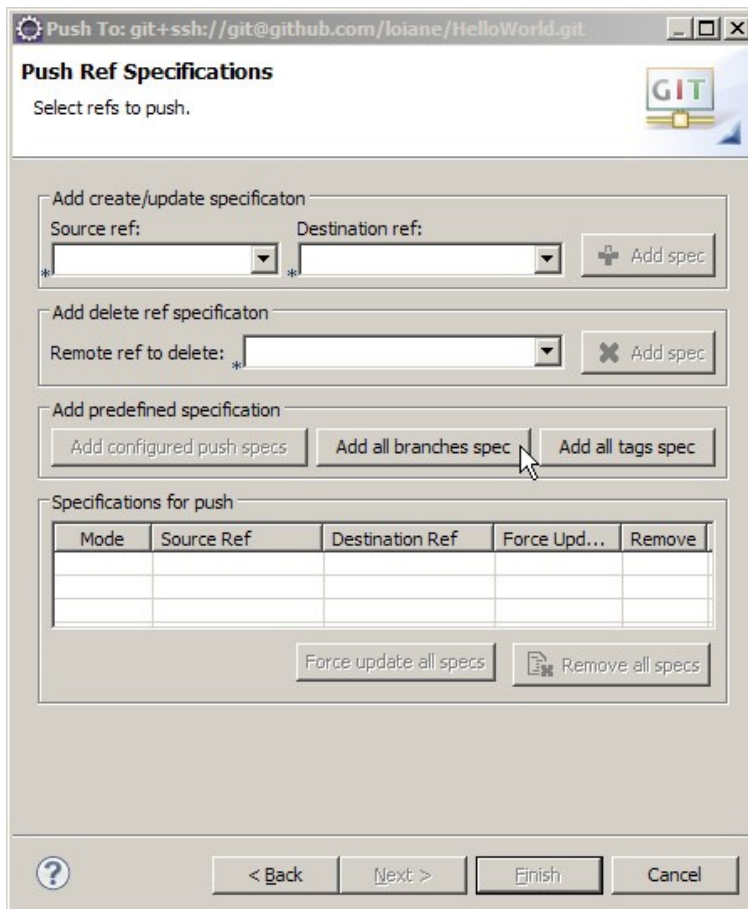
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16- Wait for a few seconds:



17- Just click on Add all branches spec:

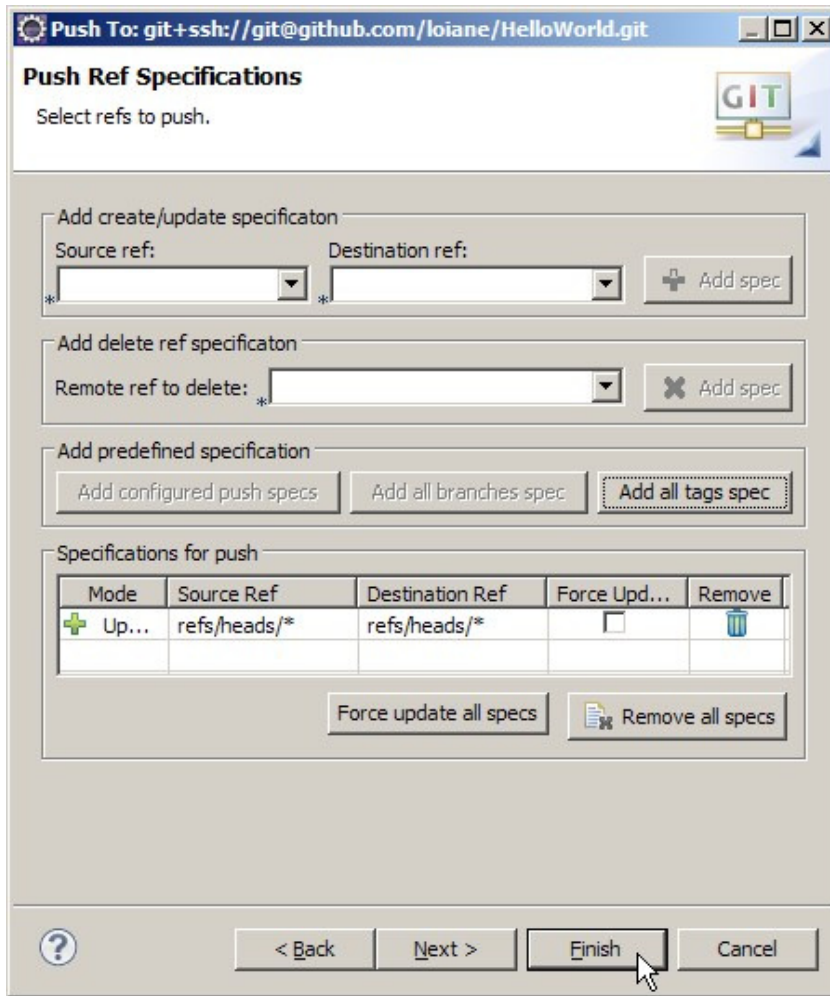




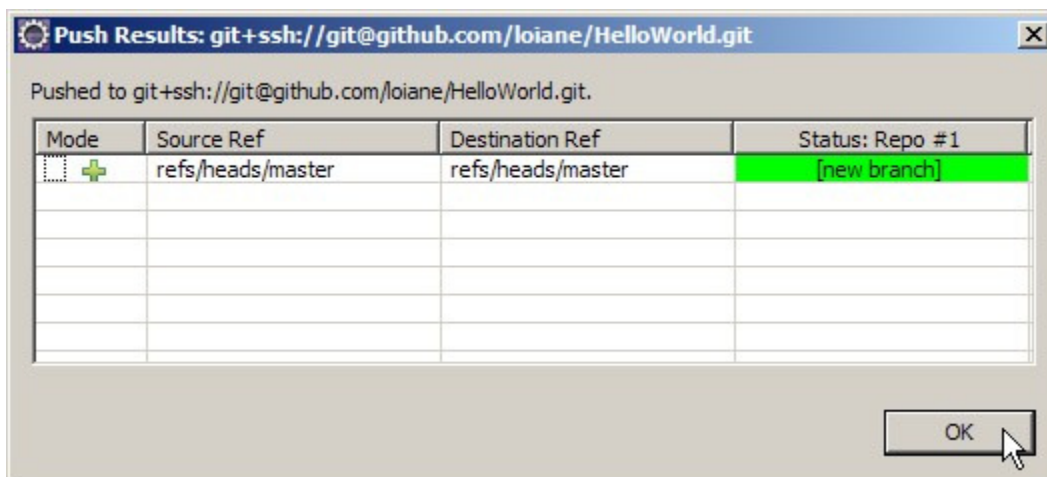
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18- Click on Finish:



19- Your project were upload to GitHub:





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20- Let's check it out:

The screenshot shows the GitHub interface for the repository 'loiane / HelloWorld'. At the top, there are buttons for 'edit', 'pull request', 'unwatch', and 'download'. Below these, the repository description is 'Hello World Java' with an 'edit' link. The homepage is 'http://www.loiane.com' with an 'edit' link. The public clone URL is 'git://github.com/loiane/HelloWorld.git' and the your clone URL is 'git@github.com:loiane/HelloWorld.git'. A commit message 'primeiro commit com o Egit - Eclipse Plugin para GitHub' is shown, along with the commit hash '6c528838afde7cab922444f74b05bb55eee417b9' and the tree hash 'ff9956ad7ca4ed179451d3d0eeb40fb5f3662767'. The author is 'loiane (author)' and the commit was made '4 minutes ago'.

HelloWorld /

name	age	message	history
.classpath	4 minutes ago	primeiro commit com o Egit - Eclipse Plugin par... [loiane]	
.project	4 minutes ago	primeiro commit com o Egit - Eclipse Plugin par... [loiane]	
.settings/	4 minutes ago	primeiro commit com o Egit - Eclipse Plugin par... [loiane]	
src/	4 minutes ago	primeiro commit com o Egit - Eclipse Plugin par... [loiane]	

21- Done!

Git operations from inside Eclipse

After you uploaded your Hello World projeto to GitHub, you want to modify your HelloWorld class

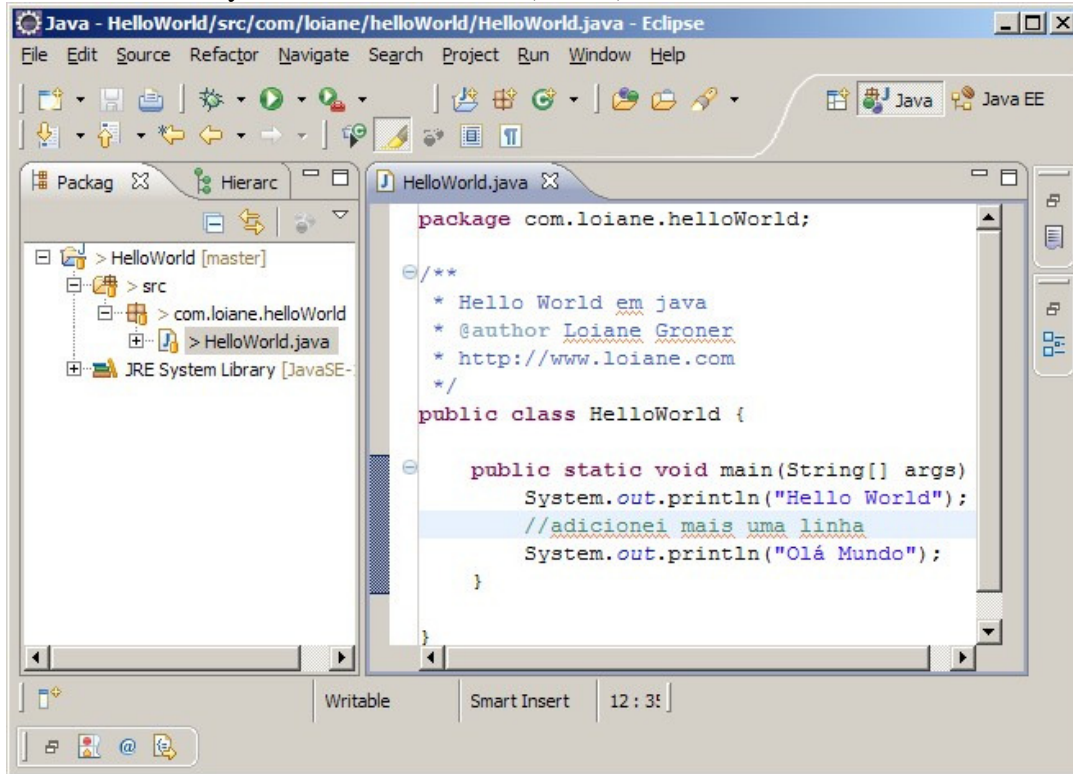
Let's see what you have to do to see your code changes in your Github project:



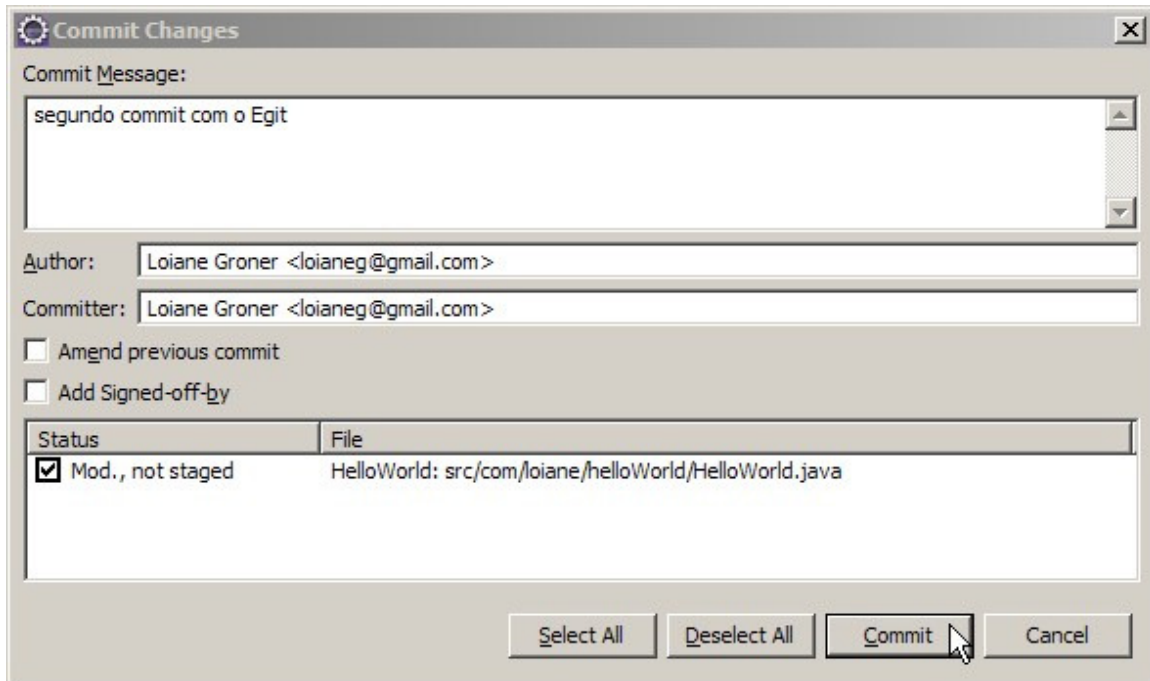
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1- You modified your HelloWorld class (> icon).



2- Commit your changes – follow 9th and 10th step from previous topic (right click on class file). Type a commit message and commit:





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3- Push you modified file (steps 11-19 from previous topic).

4- Done! You can see your modifications in your GitHub page:

loiane / HelloWorld [edit](#) [pull request](#) [unwatch](#) [download](#) [1](#) [1](#) [😊](#)

Description: Hello World Java [edit](#)
Homepage: <http://www.loiane.com> [edit](#)
Public Clone URL: [git://github.com/loiane/HelloWorld.git](https://github.com/loiane/HelloWorld.git) [📄](#)
Your Clone URL: [git@github.com:loiane/HelloWorld.git](https://github.com/loiane/HelloWorld.git) [📄](#)

segundo commit com o Egit

loiane (author)
about a minute ago

commit df39261baa8cf8a14c2e6c724c2e5f081c04d918
tree e87890f155f9e1db6c8580e90d583664d40e26e5
parent 6c528838afde7cab922444f74b05bb55eee417b9

HelloWorld /

name	age	message	history
.classpath	7 minutes ago	primeiro commit com o Egit - Eclipse Plugin par... [loiane]	
.project	7 minutes ago	primeiro commit com o Egit - Eclipse Plugin par... [loiane]	
.settings/	7 minutes ago	primeiro commit com o Egit - Eclipse Plugin par... [loiane]	
src/	about a minute ago	segundo commit com o Egit [loiane]	

Happy coding!!!

Reference: <http://github.com/guides/using-the-egit-eclipse-plugin-with-github>

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My pt-br blog: <http://www.loiane.com>