git
git-flow

Ingredients:
Pork with Ham,
Salt, Water,
Modified Potato
Starch, Sugar,
Sodium Nitrite
SPAM®
Classic
U.S.
INSPECTED
AND PASSED BY
DEPARTMENT OF
AGRICULTURE
Serving
Suggestion
NET WT
12 OZ
(340g)

git

jesus@jesusamieiro.com

QUADRALIA

Microsoft
.NET

php

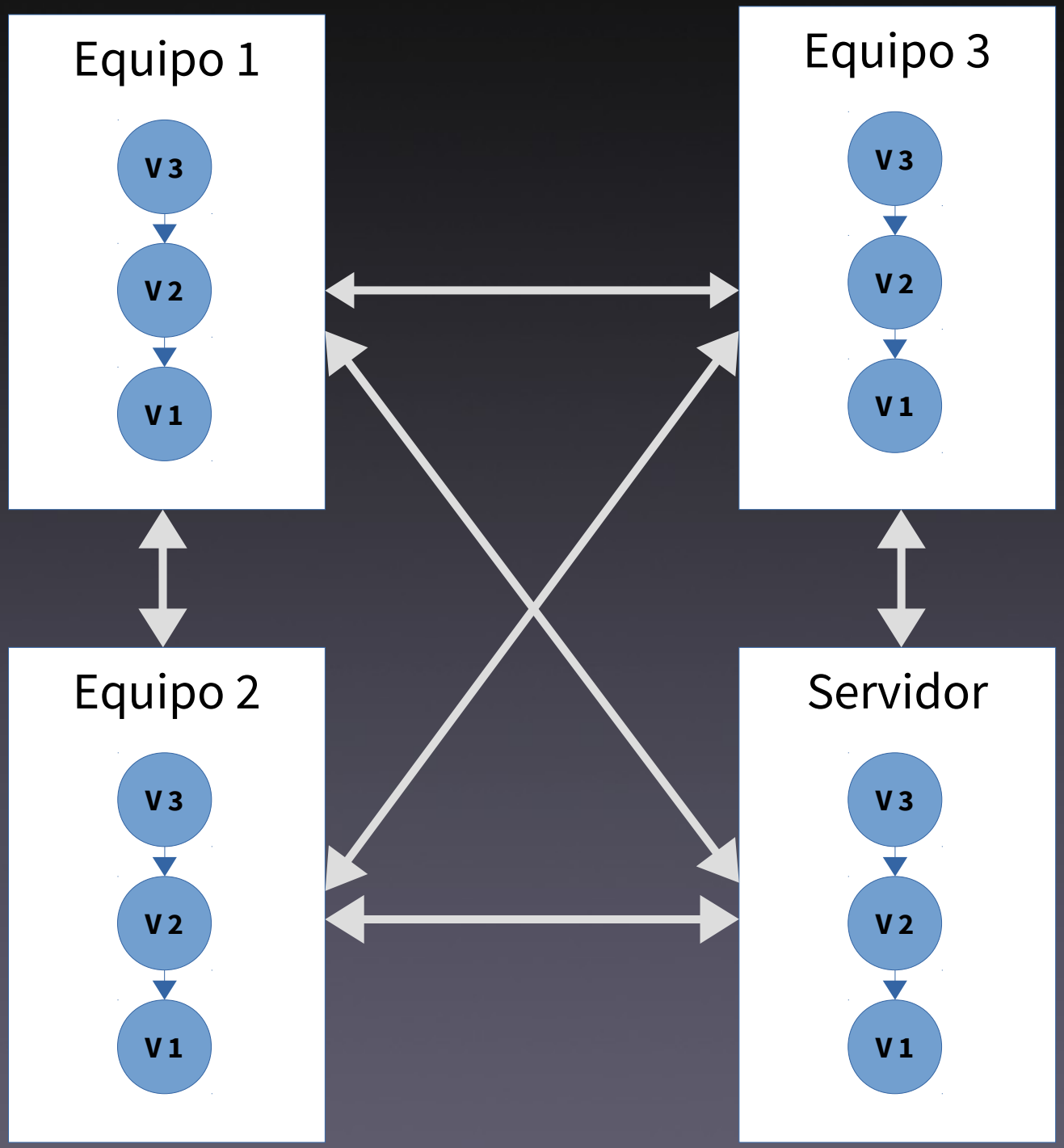
git

Contido

- Refresco conceptos Git
- Git-flow
  - Introdución
  - Fluxos de traballo
  - Comandos de git-flow
- Eclipse

git

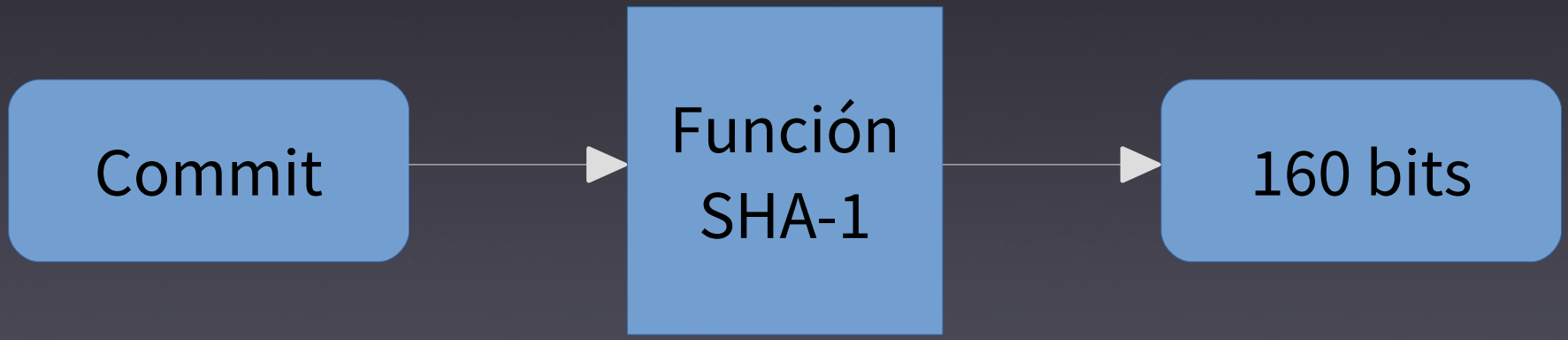
Distribuído


Equipo 1
V3
V2
V1
Equipo 3
V3
V2
V1
Equipo 2
V3
V2
V1
Servidor
V3
V2
V1

Commit

Ver recomendacións estilo

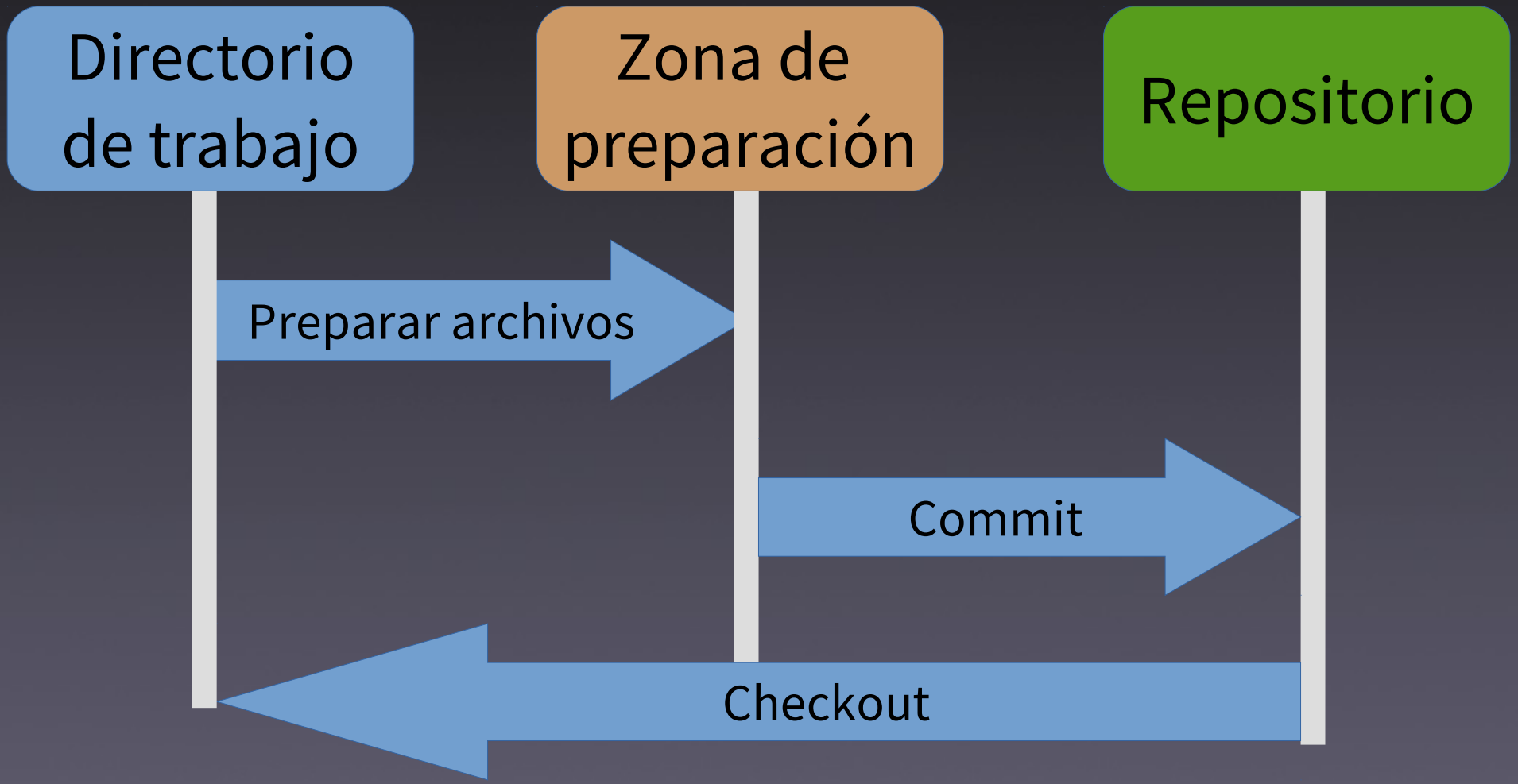
SHA-1



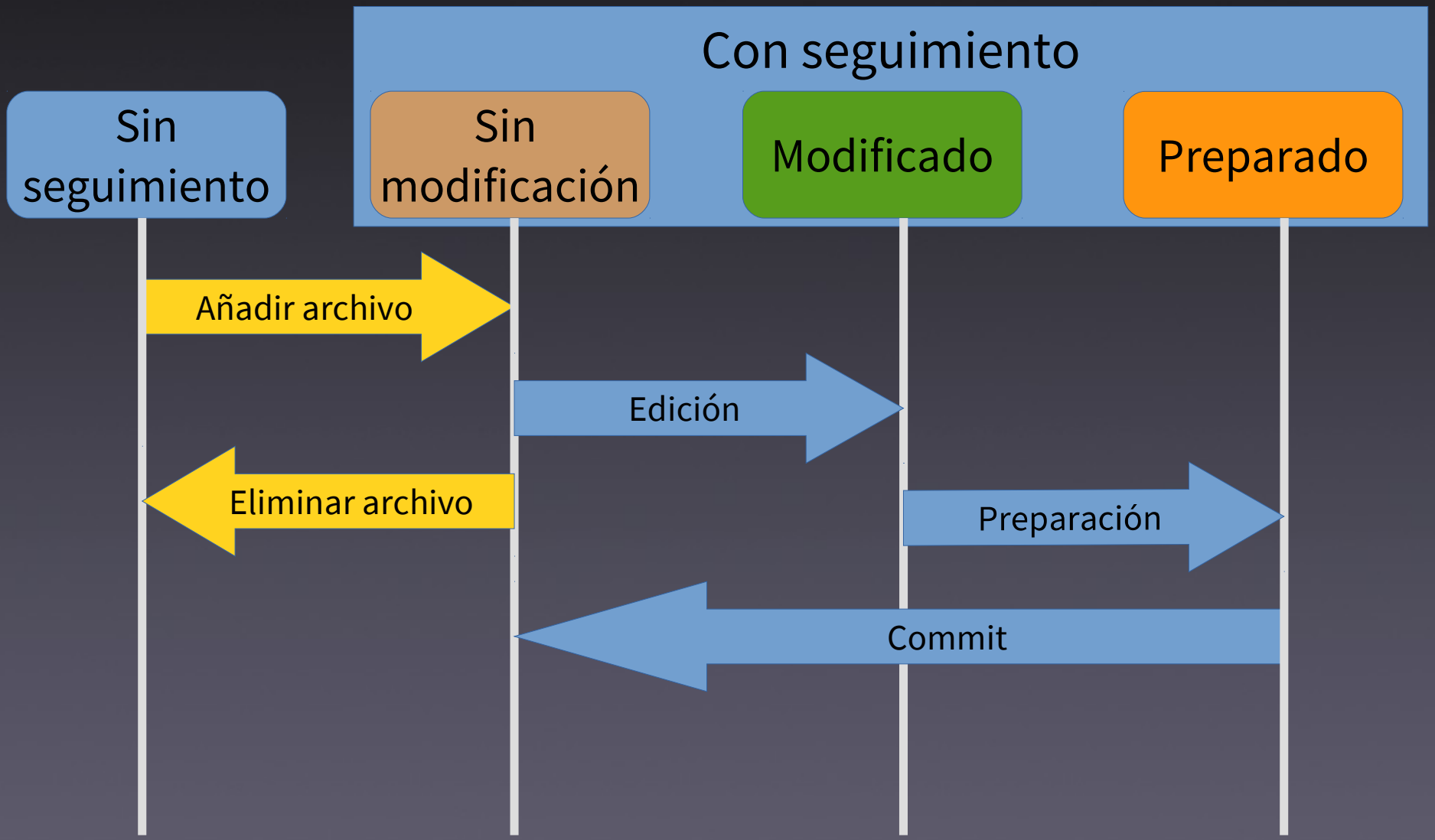
HEAD

Commit 1
75528b9
Commit 1
Commit 2
75528b9
8daf16a
Commit 1
Commit 2
Commit 3
75528b9
8daf16a
a346348

Zonas en Git

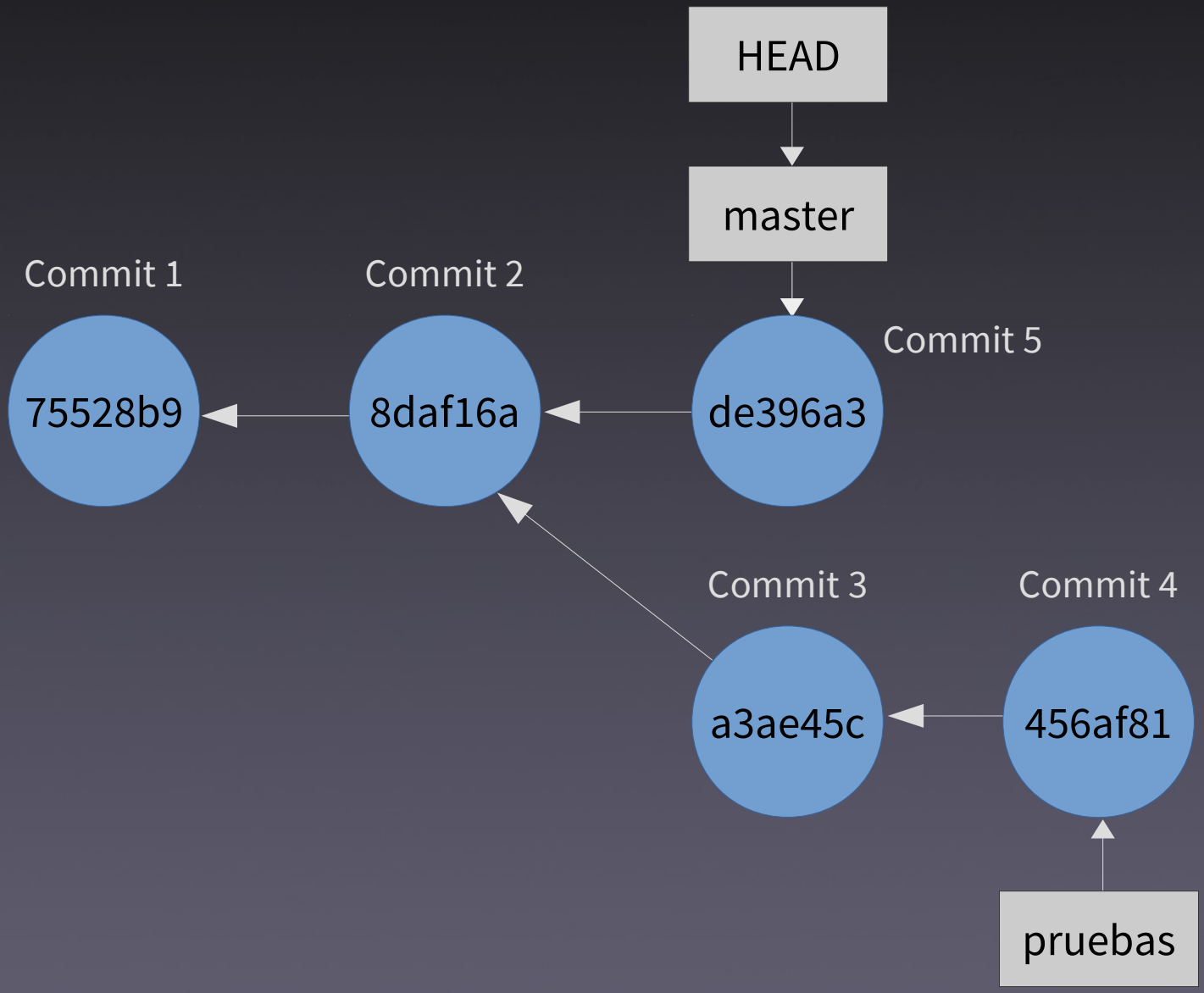

Directorio de trabajo
Zona de preparación
Repositorio
Preparar archivos
Commit
Checkout

Estados e fluxo



Ignorado

Ramas


HEAD
master
Commit 1
Commit 2
Commit 5
75528b9
8daf16a
de396a3
Commit 3
Commit 4
a3ae45c
456af81
pruebas

Tags

Ver recomendacións estilo

Reset

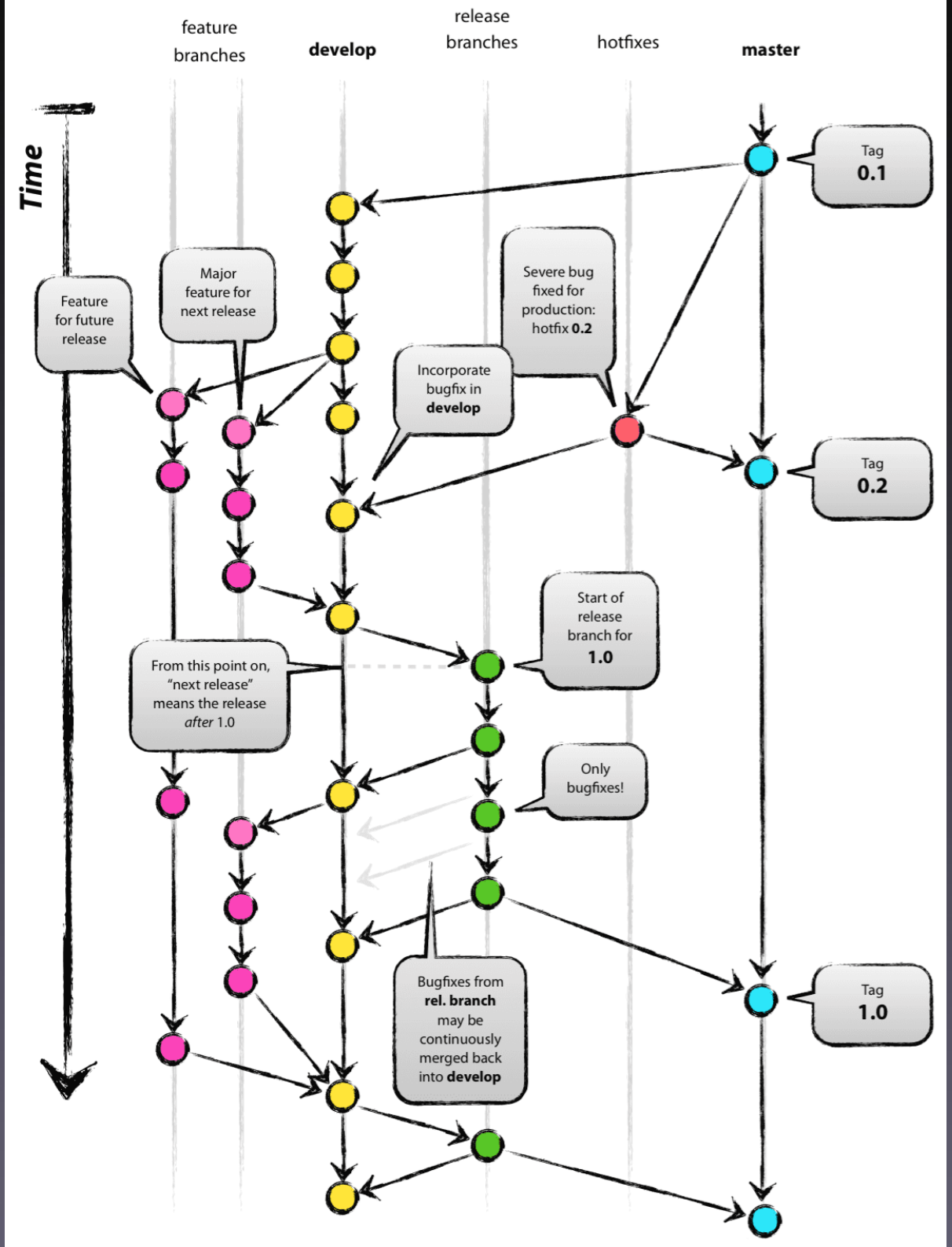
Soft, mixed, hard

Repositorios remotos

Repositorios remotos

- git remote
- git push
- git fetch
- git pull

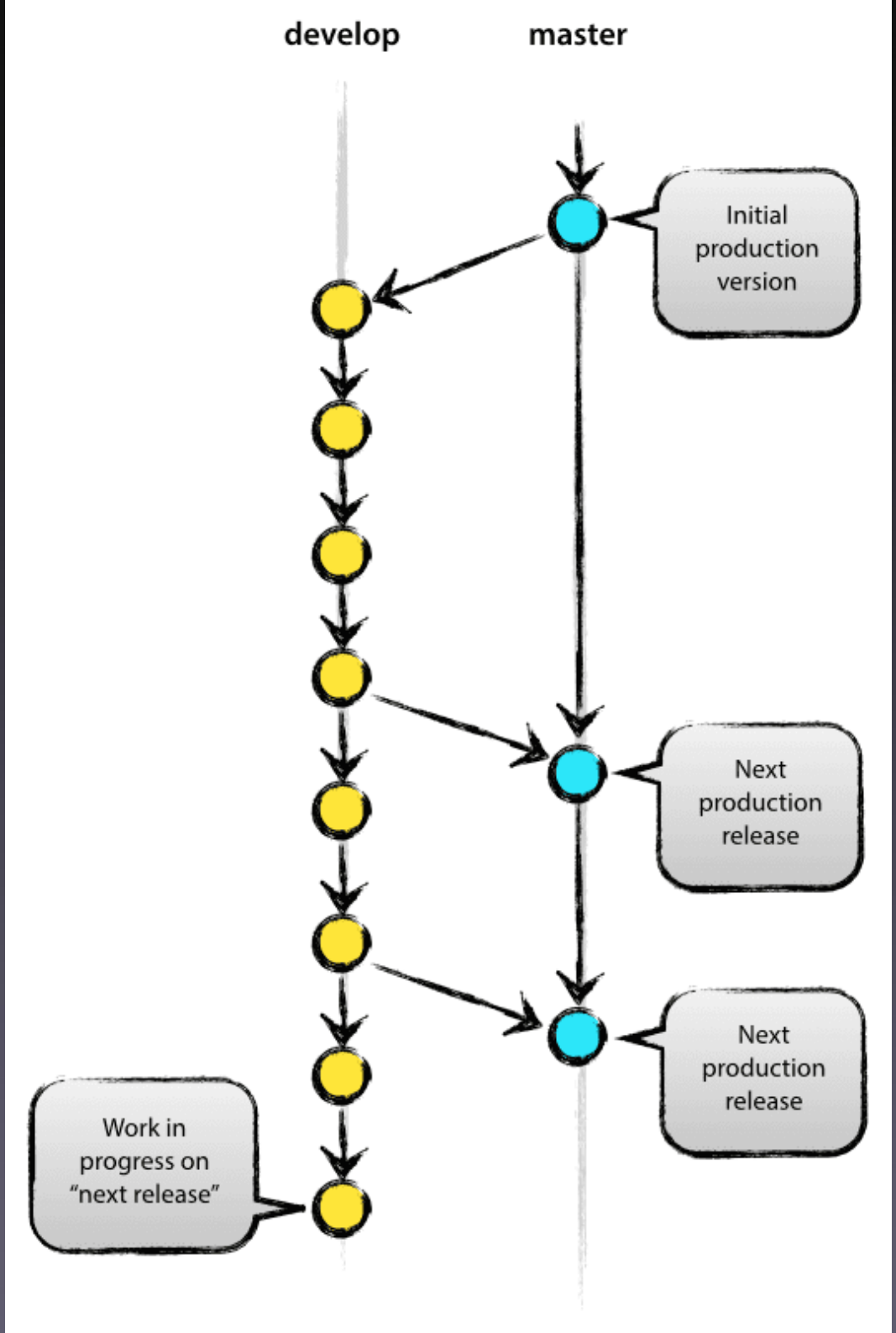
git-flow


feature branches
develop
release branches
hotfixes
master
Time
Tag 0.1
Feature for future release
Major feature for next release
Severe bug fixed for production: hotfix 0.2
Incorporate bugfix in develop
Tag 0.2
Start of release branch for 1.0
From this point on, "next release" means the release after 1.0
Only bugfixes!
Bugfixes from rel. branch may be continuously merged back into develop
Tag 1.0

Ramas principais

- master
- develop

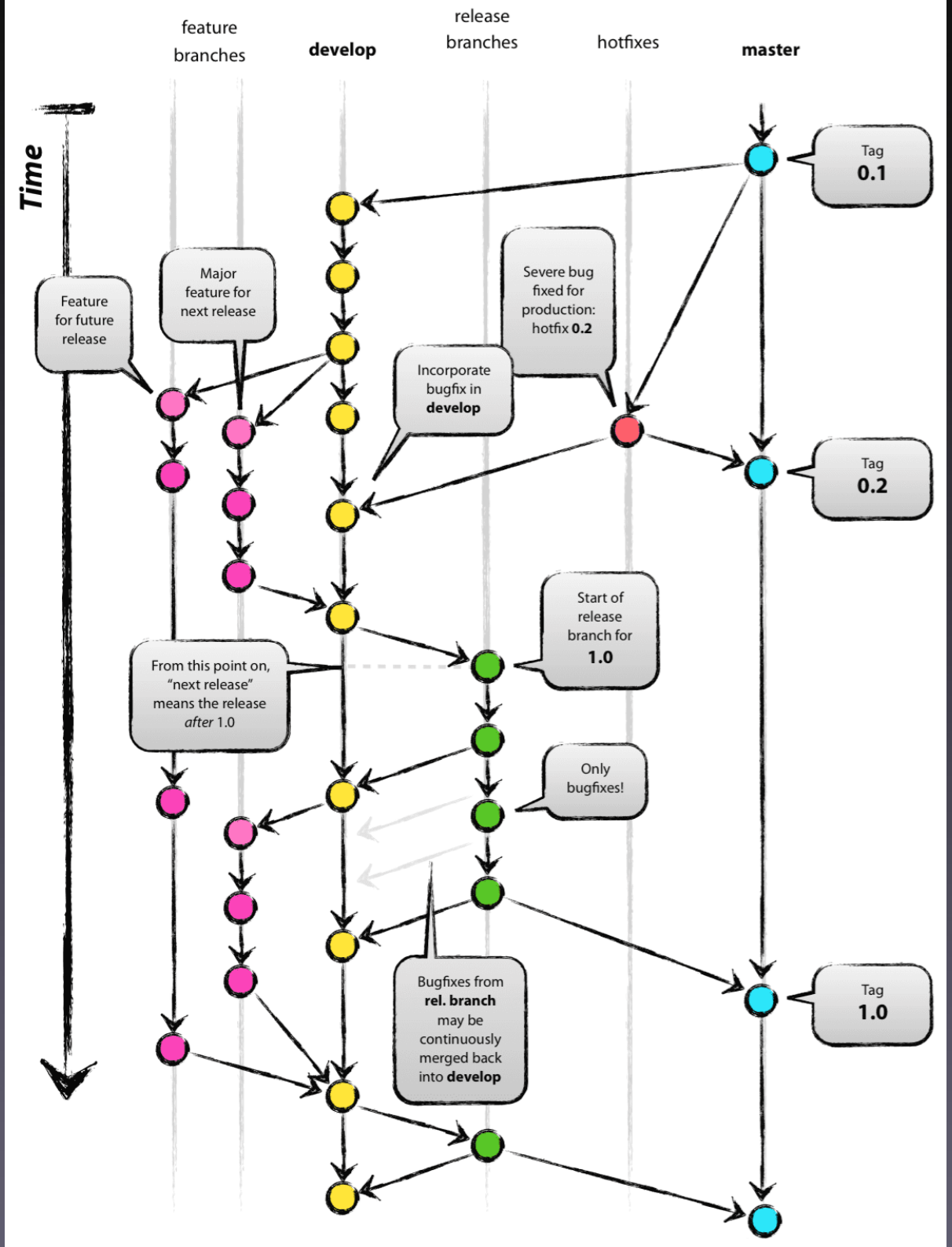
- Permanentes


develop
master
Initial production version
Next production release
Next production release
Work in progress on "next release"

Ramas de soporte

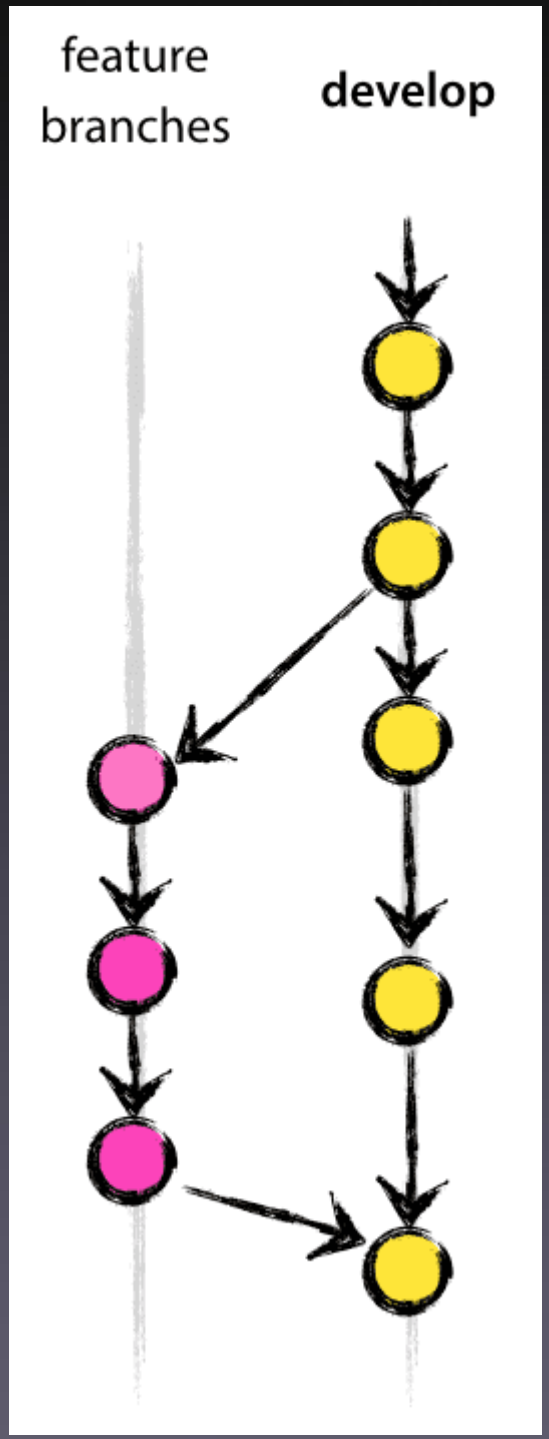
- Feature
- Release
- Hotfix

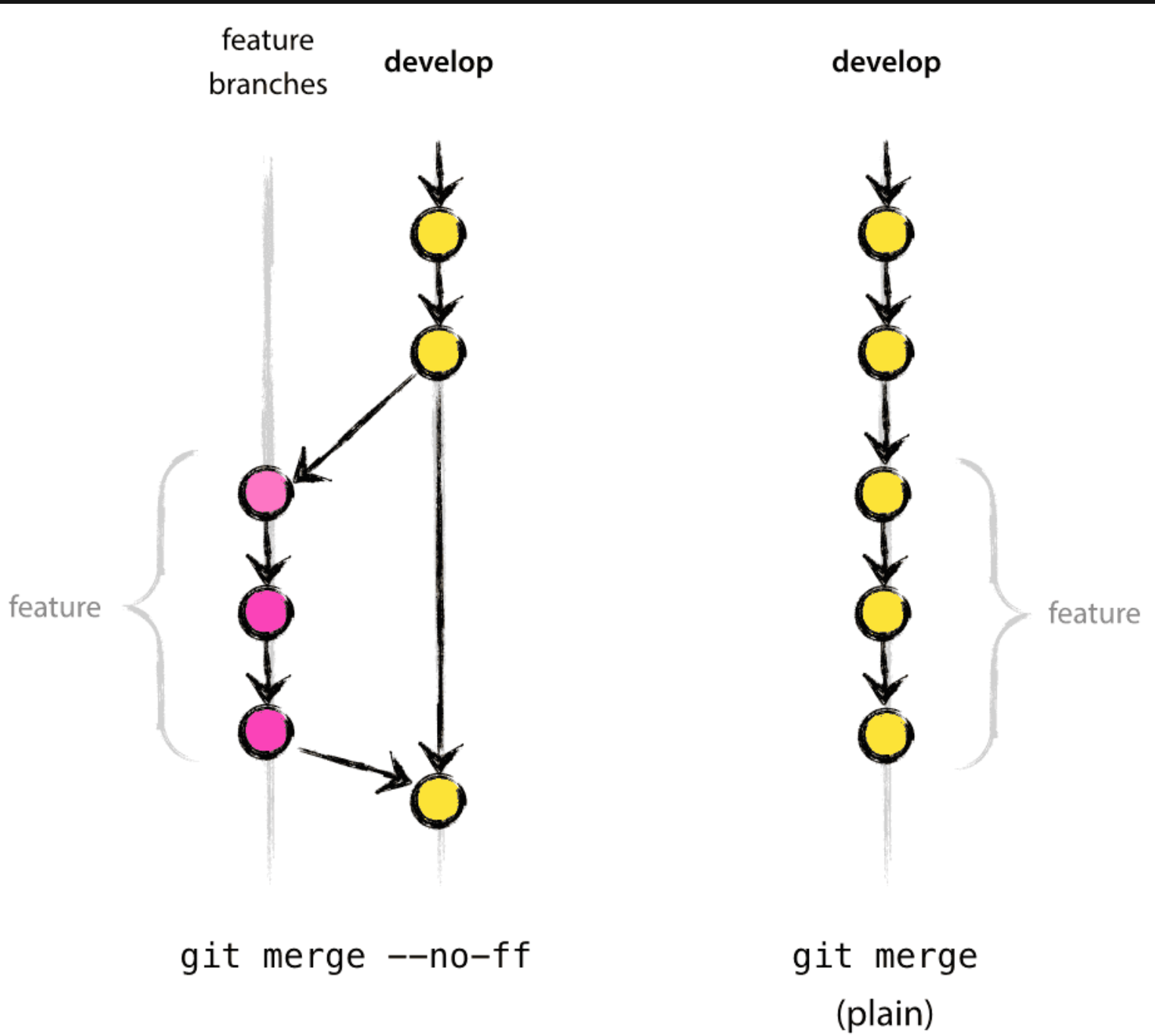
- Propósito determinado
- Conxunto de regras de uso
- Tempo de vida limitado
- Ramas normais


feature branches
develop
release branches
hotfixes
master
Time
Tag 0.1
Feature for future release
Major feature for next release
Severe bug fixed for production: hotfix 0.2
Incorporate bugfix in develop
Tag 0.2
Start of release branch for 1.0
From this point on, "next release" means the release after 1.0
Only bugfixes!
Bugfixes from rel. branch may be continuously merged back into develop
Tag 1.0

Ramas feature (topic)

- Créanse a partir de develop
- Fusiónanse en develop
- Nome: calquera, excepto:
  - master
  - develop
  - release-*
  - hotfix-*
- Obxectivo: novas funcionalidades


feature
branches
develop

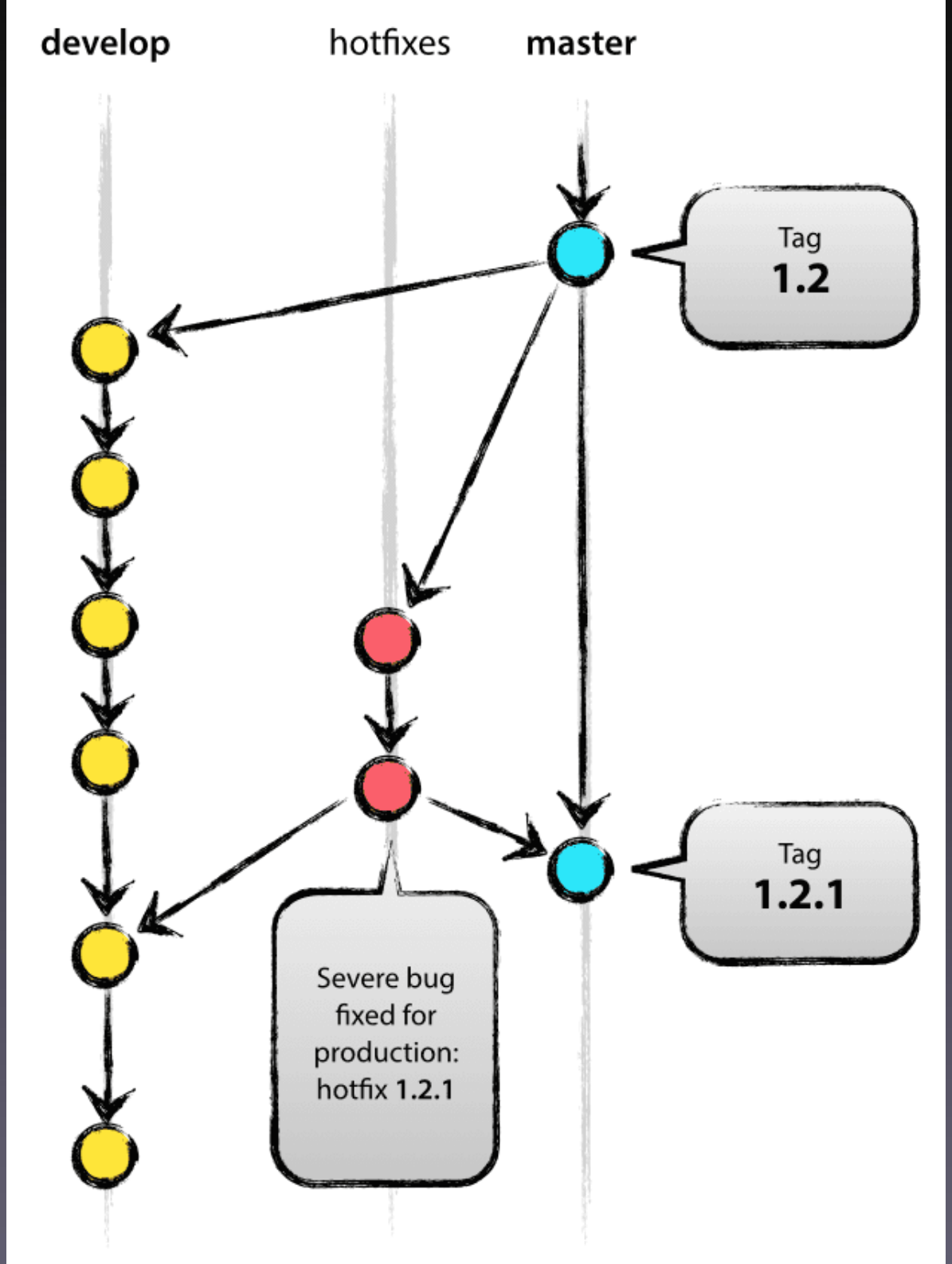

feature
branches
develop
develop
feature
feature
git merge --no-ff
git merge
(plain)

Ramas release

- Créanse a partir de develop
- Fusiónanse en master e en develop
- Nome: release-*
- Obxectivo: preparación dunha nova publicación (release)

Ramas hotfix

- Créanse a partir de master
- Fusiónanse en master e en develop
- Nome: hotfix-*
- Obxectivo: resolución de errores en produción


develop
hotfixes
master
Tag
1.2
Tag
1.2.1
Severe bug
fixed for
production:
hotfix 1.2.1

git flow init

$ git flow init --help

$ git clone https://github.com/jquery/jquery.git

$ git flow init

git flow feature

$ git flow feature help

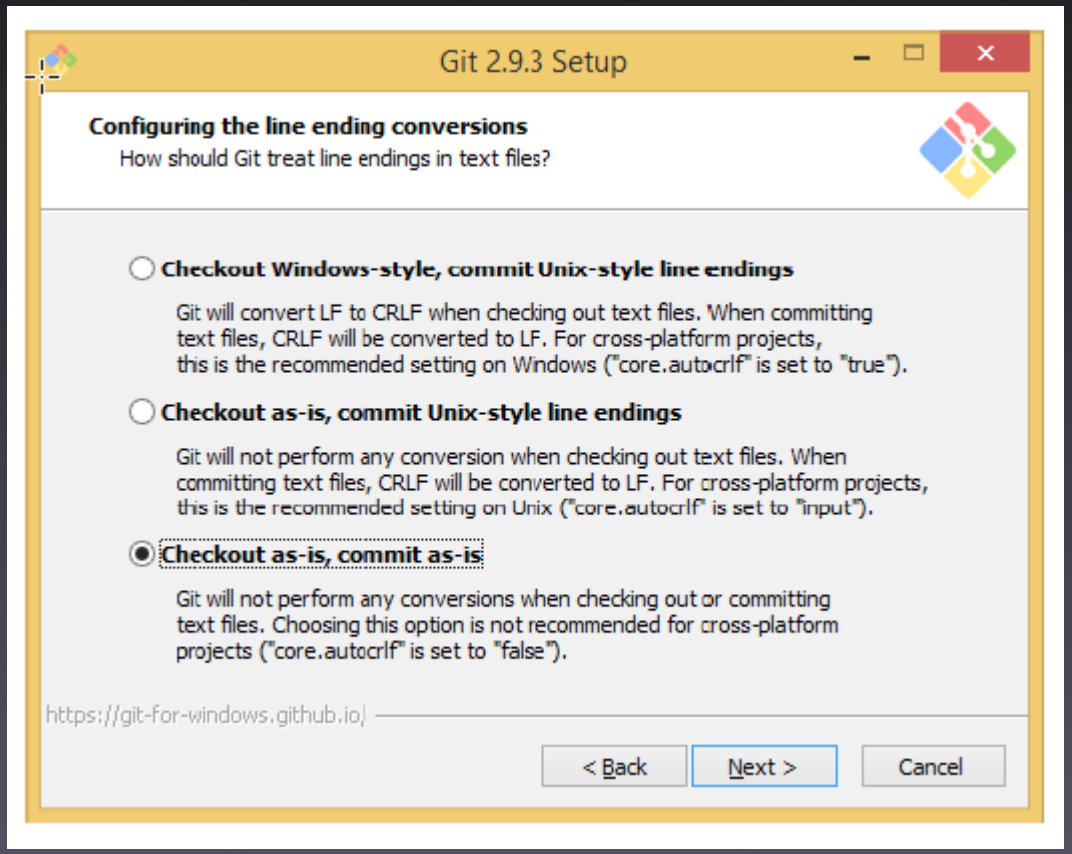
$ git flow feature list

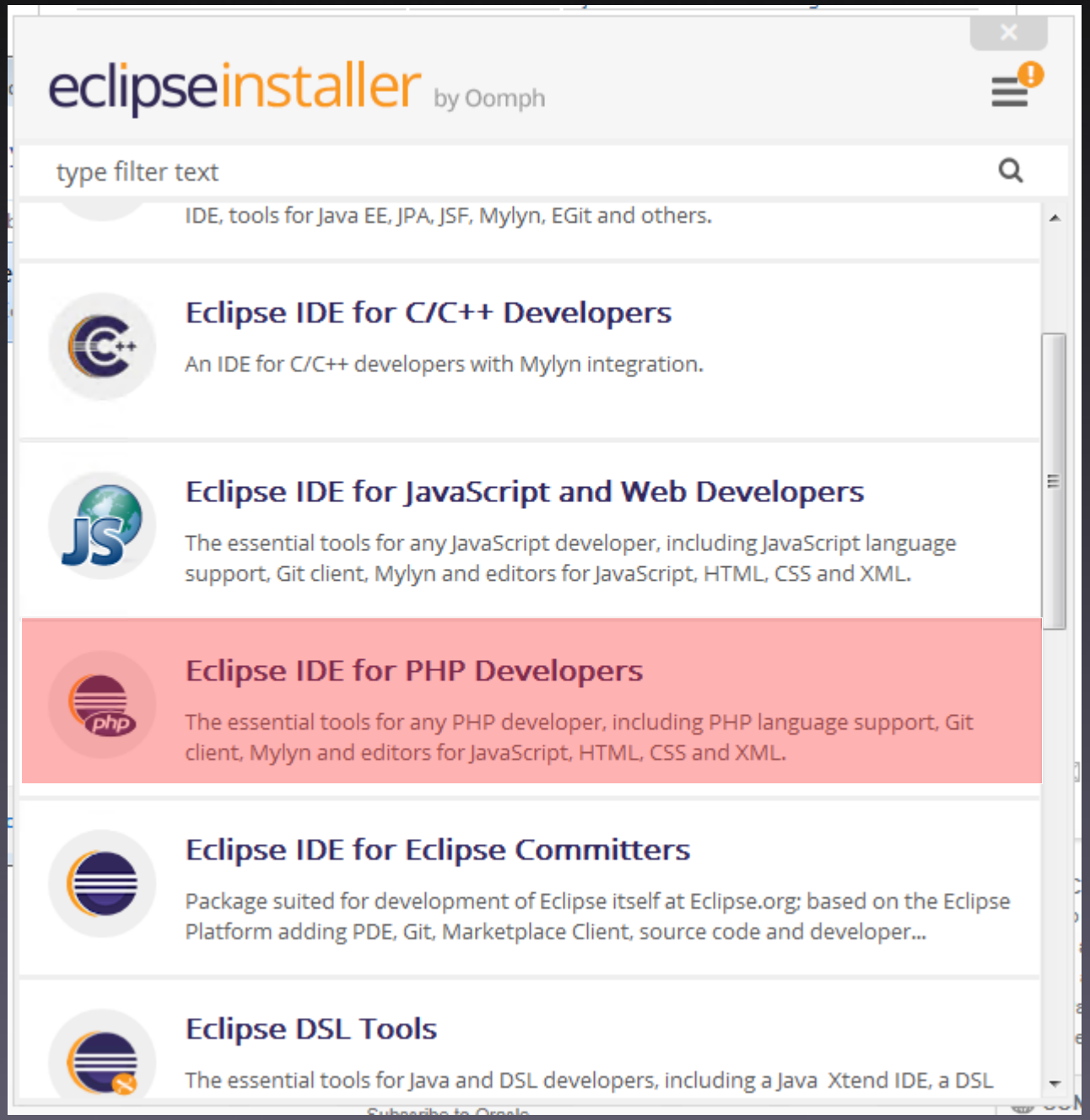
$ git flow feature start nomeFeature

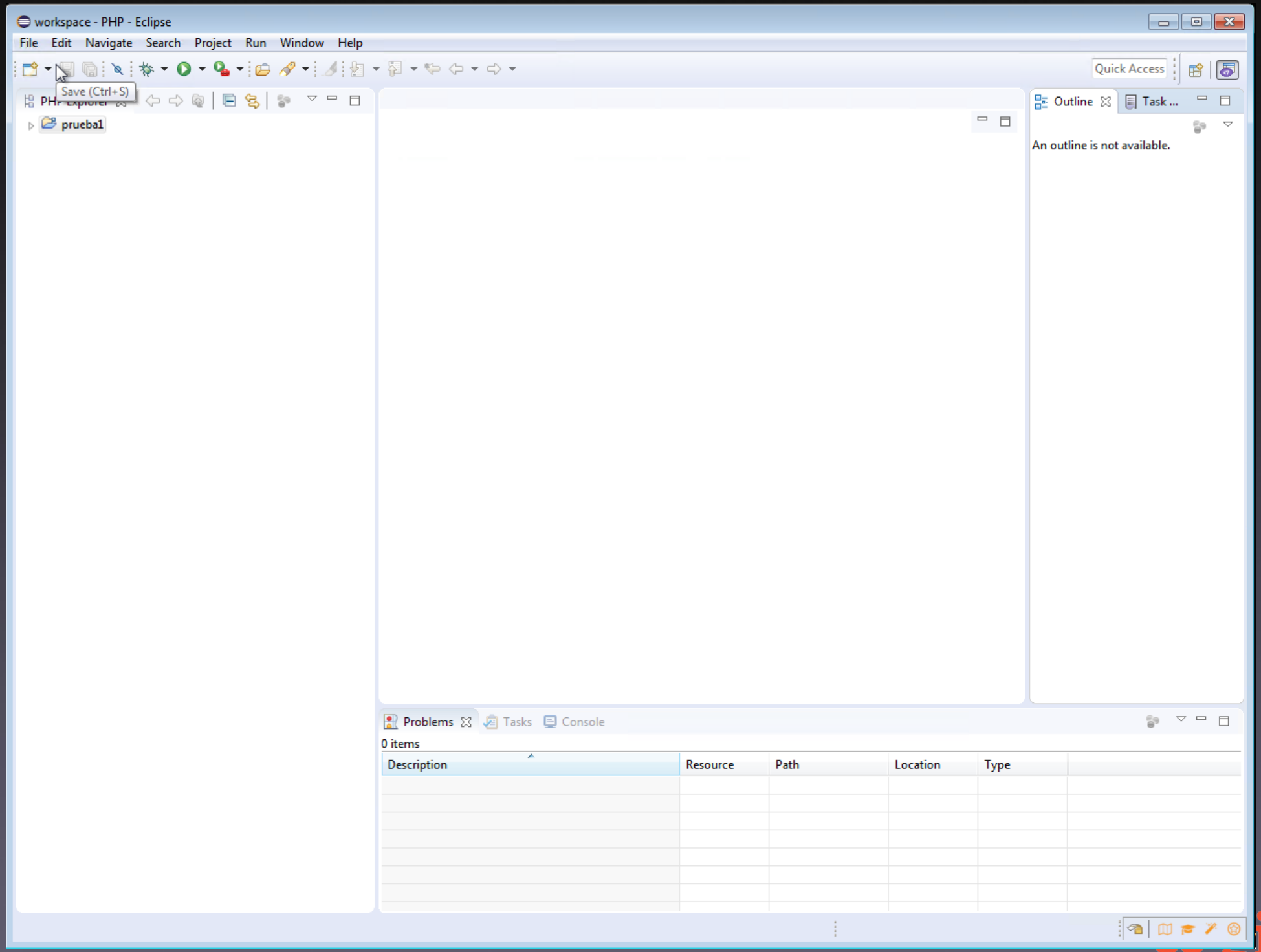
$ git flow feature finish nomeFeature

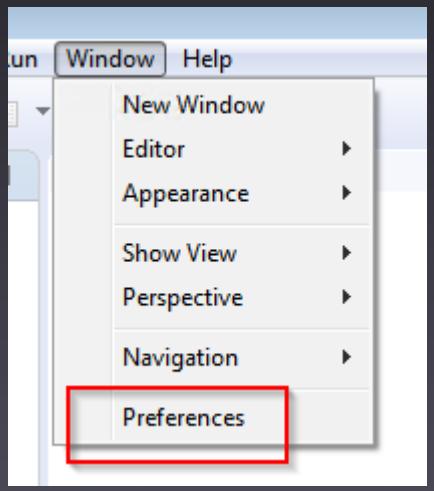
Funcionalidades similares con “release” e “hotfix”

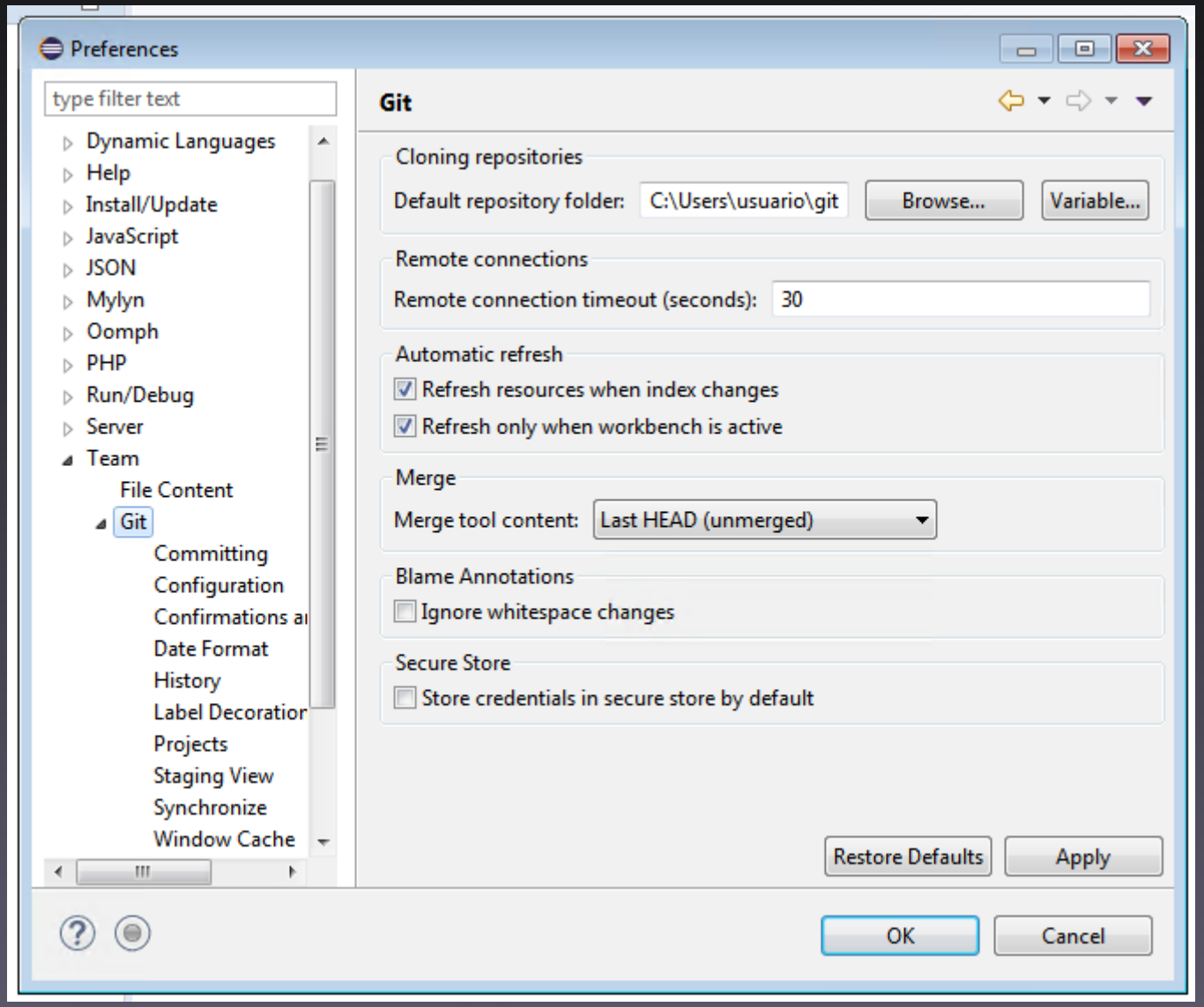
Eclipse Neon

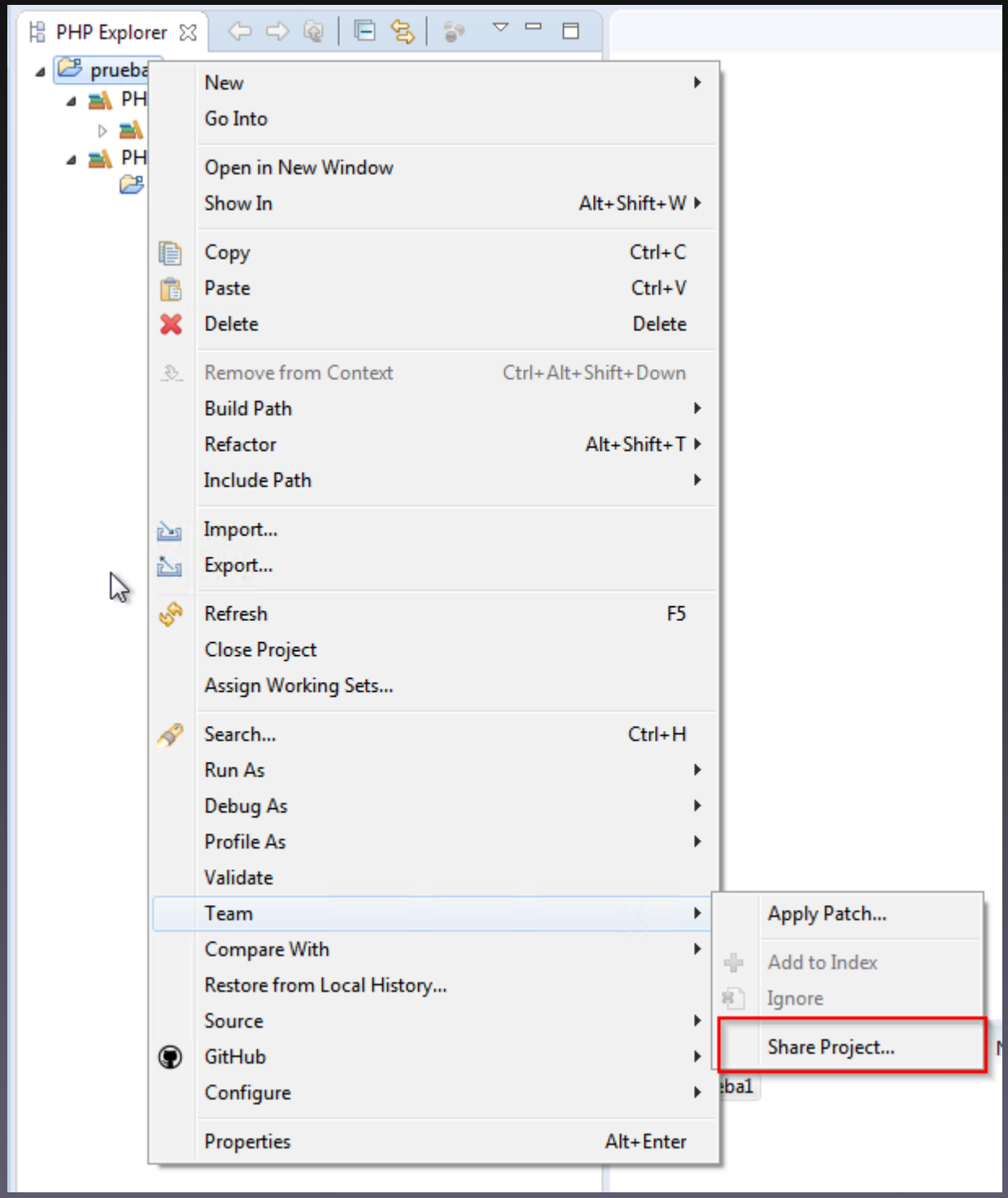

Git 2.9.3 Setup
Configuring the line ending conversions
How should Git treat line endings in text files?
Checkout Windows-style, commit Unix-style line endings
Git will convert LF to CRLF when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Windows ("core.autocrlf" is set to "true").
Checkout as-is, commit Unix-style line endings
Git will not perform any conversion when checking out text files. When committing text files, CRLF will be converted to LF. For cross-platform projects, this is the recommended setting on Unix ("core.autocrlf" is set to "input").
Checkout as-is, commit as-is
Git will not perform any conversions when checking out or committing text files. Choosing this option is not recommended for cross-platform projects ("core.autocrlf" is set to "false").
https://git-for-windows.github.io/
< Back
Next >
Cancel

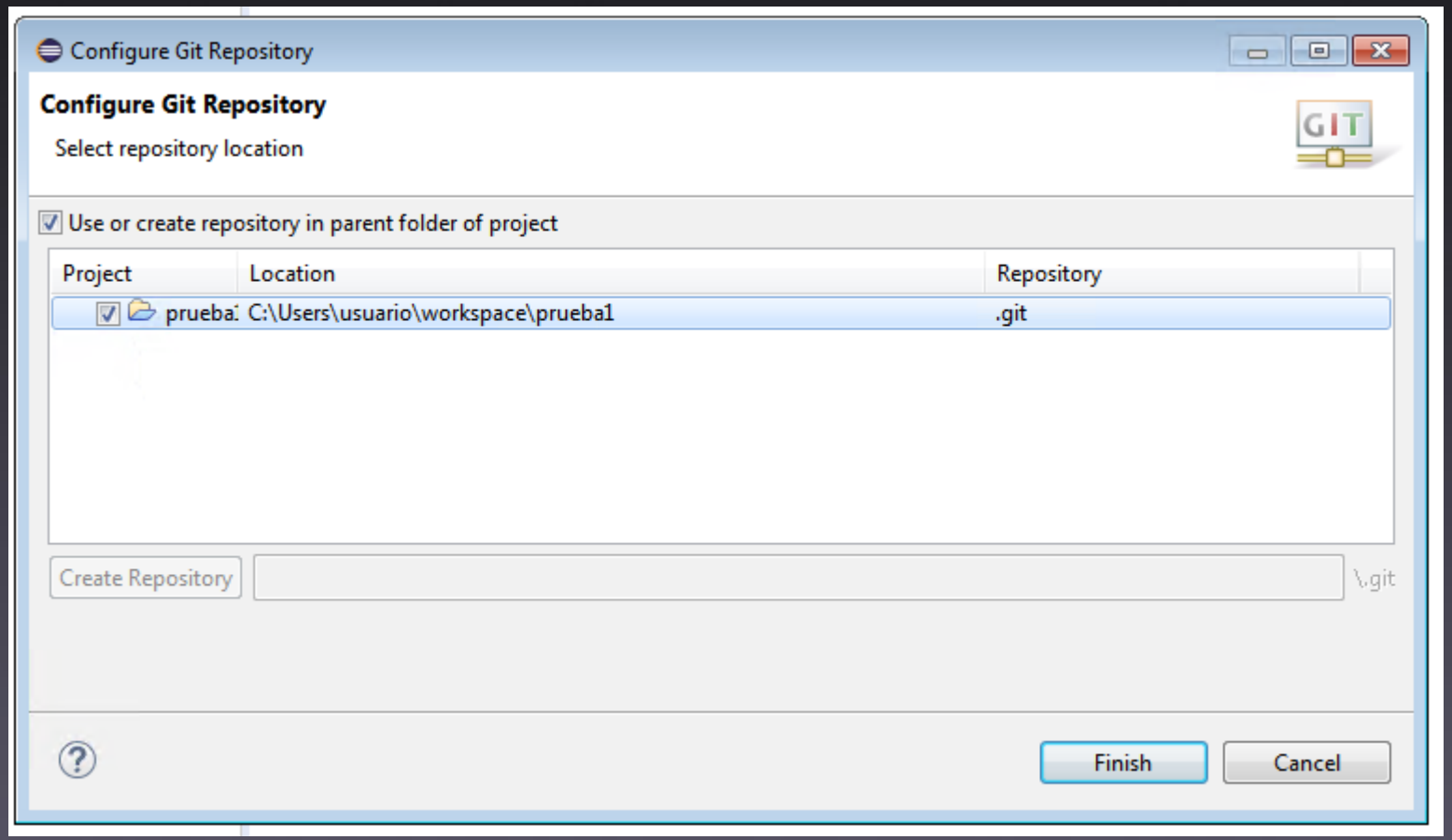

eclipseinstaller by Oomph
type filter text
IDE, tools for Java EE, JPA, JSF, Mylyn, EGit and others.
Eclipse IDE for C/C++ Developers
An IDE for C/C++ developers with Mylyn integration.
Eclipse IDE for JavaScript and Web Developers
The essential tools for any JavaScript developer, including JavaScript language support, Git client, Mylyn and editors for JavaScript, HTML, CSS and XML.
Eclipse IDE for PHP Developers
The essential tools for any PHP developer, including PHP language support, Git client, Mylyn and editors for JavaScript, HTML, CSS and XML.
Eclipse IDE for Eclipse Committers
Package suited for development of Eclipse itself at Eclipse.org; based on the Eclipse Platform adding PDE, Git, Marketplace Client, source code and developer...
Eclipse DSL Tools
The essential tools for Java and DSL developers, including a Java Xtend IDE, a DSL

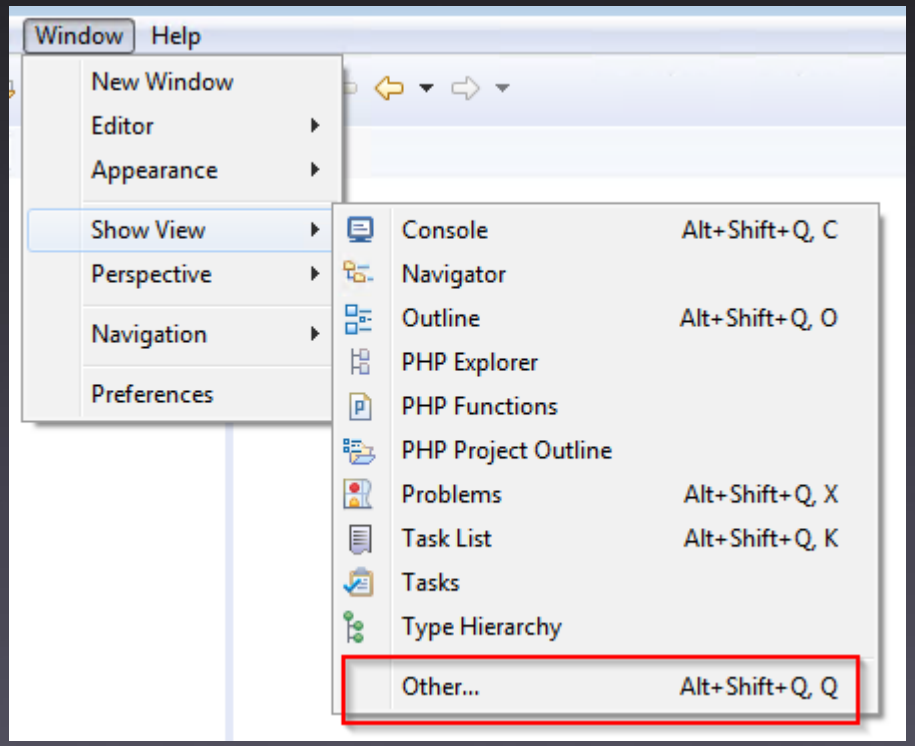

workspace - PHP - Eclipse
File Edit Navigate Search Project Run Window Help
Save (Ctrl+S)
Quick Access
PHP Explorer
prueba1
Outline
Task ...
An outline is not available.
Problems
Tasks
Console
0 items
Description
Resource
Path
Location
Type


Window
Help
New Window
Editor
Appearance
Show View
Perspective
Navigation
Preferences

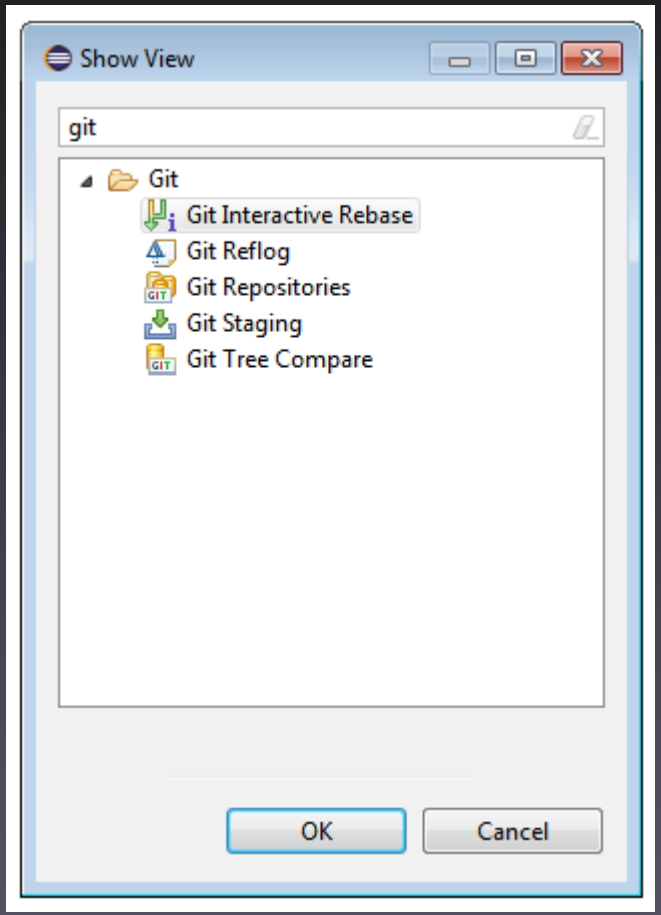

Preferences
type filter text
Dynamic Languages
Help
Install/Update
JavaScript
JSON
Mylyn
Oomph
PHP
Run/Debug
Server
Team
File Content
Git
Committing
Configuration
Confirmations a
Date Format
History
Label Decoratior
Projects
Staging View
Synchronize
Window Cache
Git
Cloning repositories
Default repository folder:
C:\Users\usuario\git
Browse...
Variable...
Remote connections
Remote connection timeout (seconds):
30
Automatic refresh
Refresh resources when index changes
Refresh only when workbench is active
Merge
Merge tool content:
Last HEAD (unmerged)
Blame Annotations
Ignore whitespace changes
Secure Store
Store credentials in secure store by default
Restore Defaults
Apply
OK
Cancel

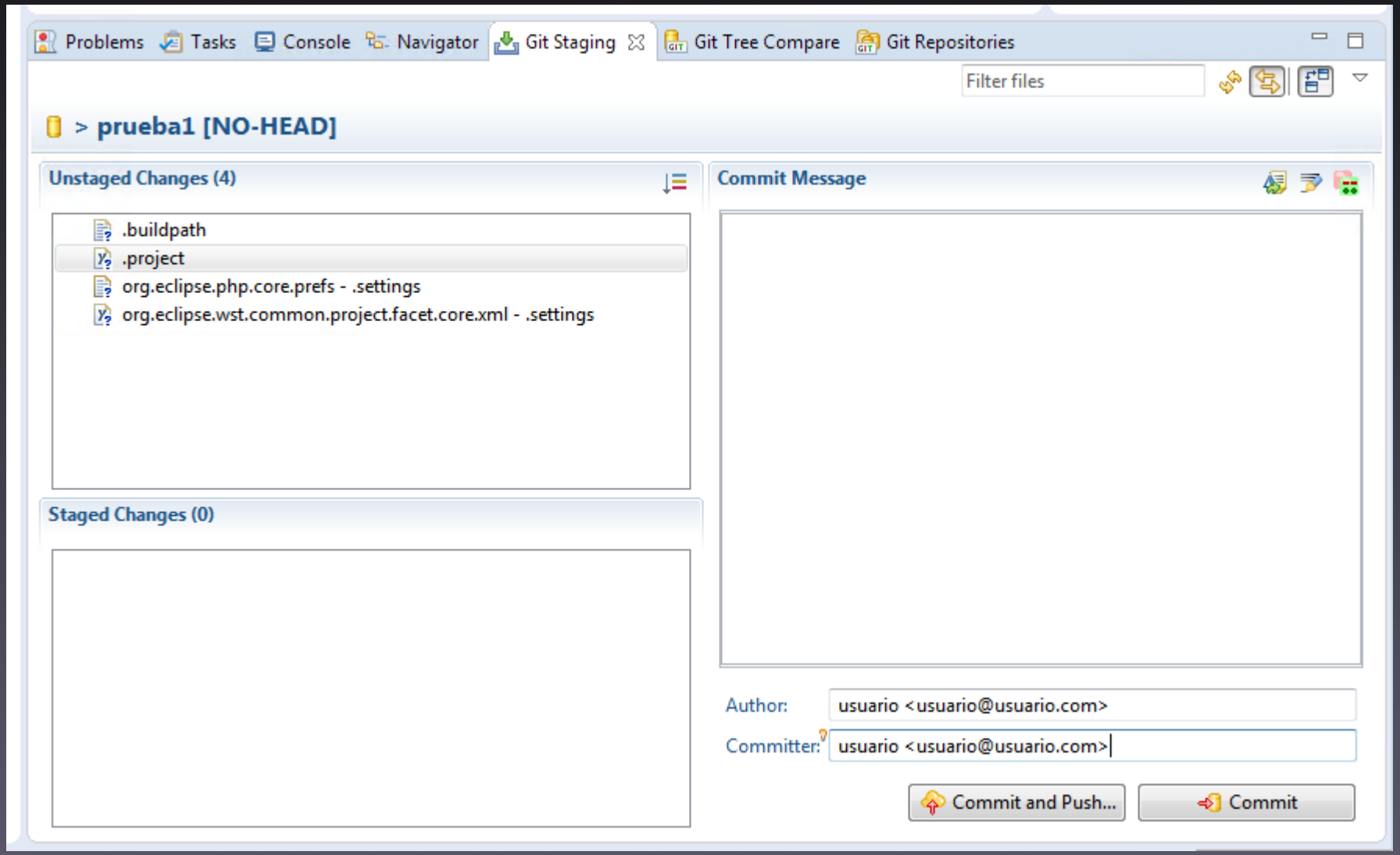

PHP Explorer
New
Go Into
Open in New Window
Show In Alt+Shift+W
Copy Ctrl+C
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Build Path
Refactor Alt+Shift+T
Include Path
Import...
Export...
Refresh F5
Close Project
Assign Working Sets...
Search... Ctrl+H
Run As
Debug As
Profile As
Validate
Team
Compare With
Restore from Local History...
Source
GitHub
Configure
Properties Alt+Enter
Apply Patch...
Add to Index
Ignore
Share Project...

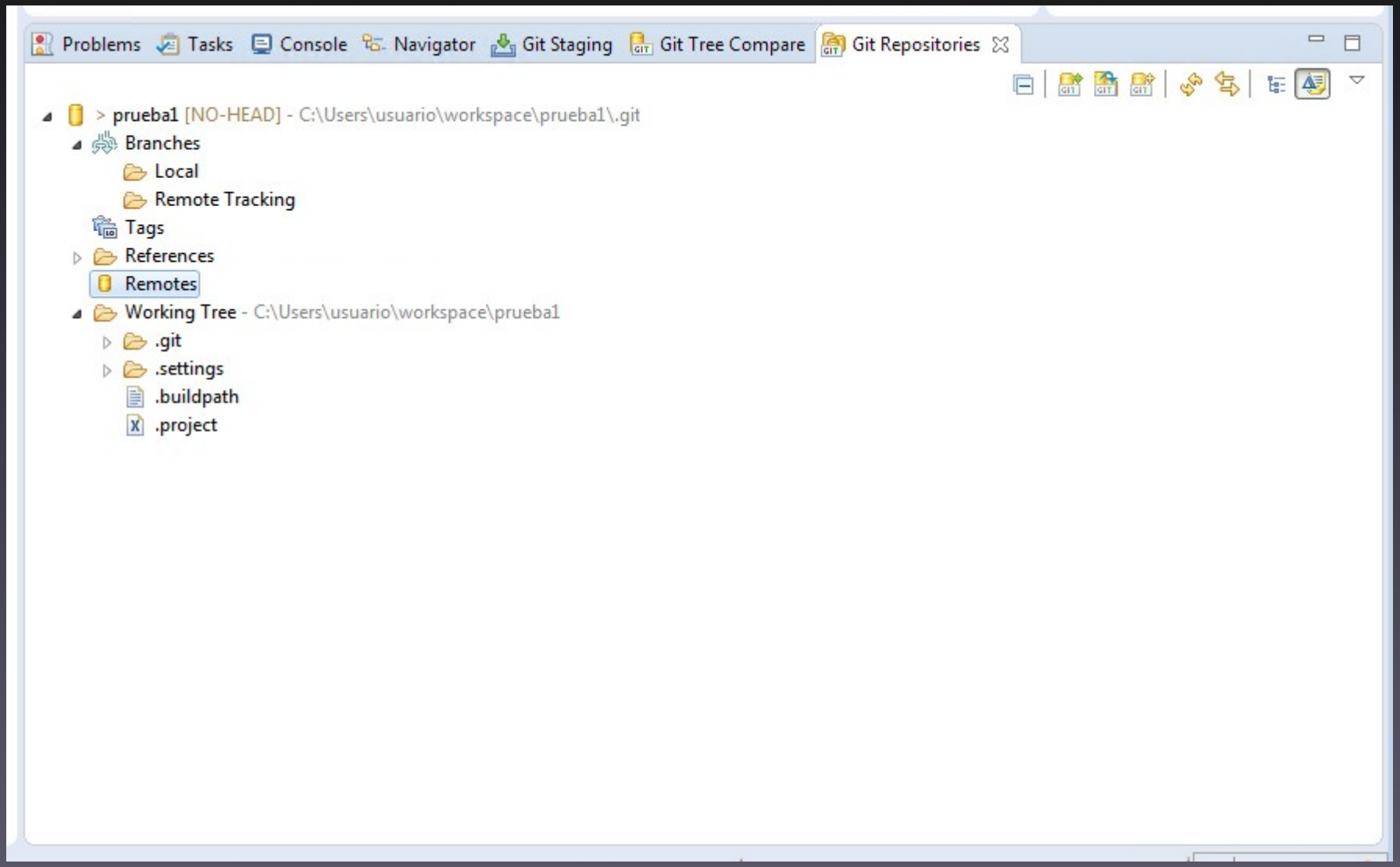

Configure Git Repository
Configure Git Repository
Select repository location
GIT
Use or create repository in parent folder of project
Project
Location
Repository
prueba1
C:\Users\usuario\workspace\prueba1
.git
Create Repository
\.git
Finish
Cancel

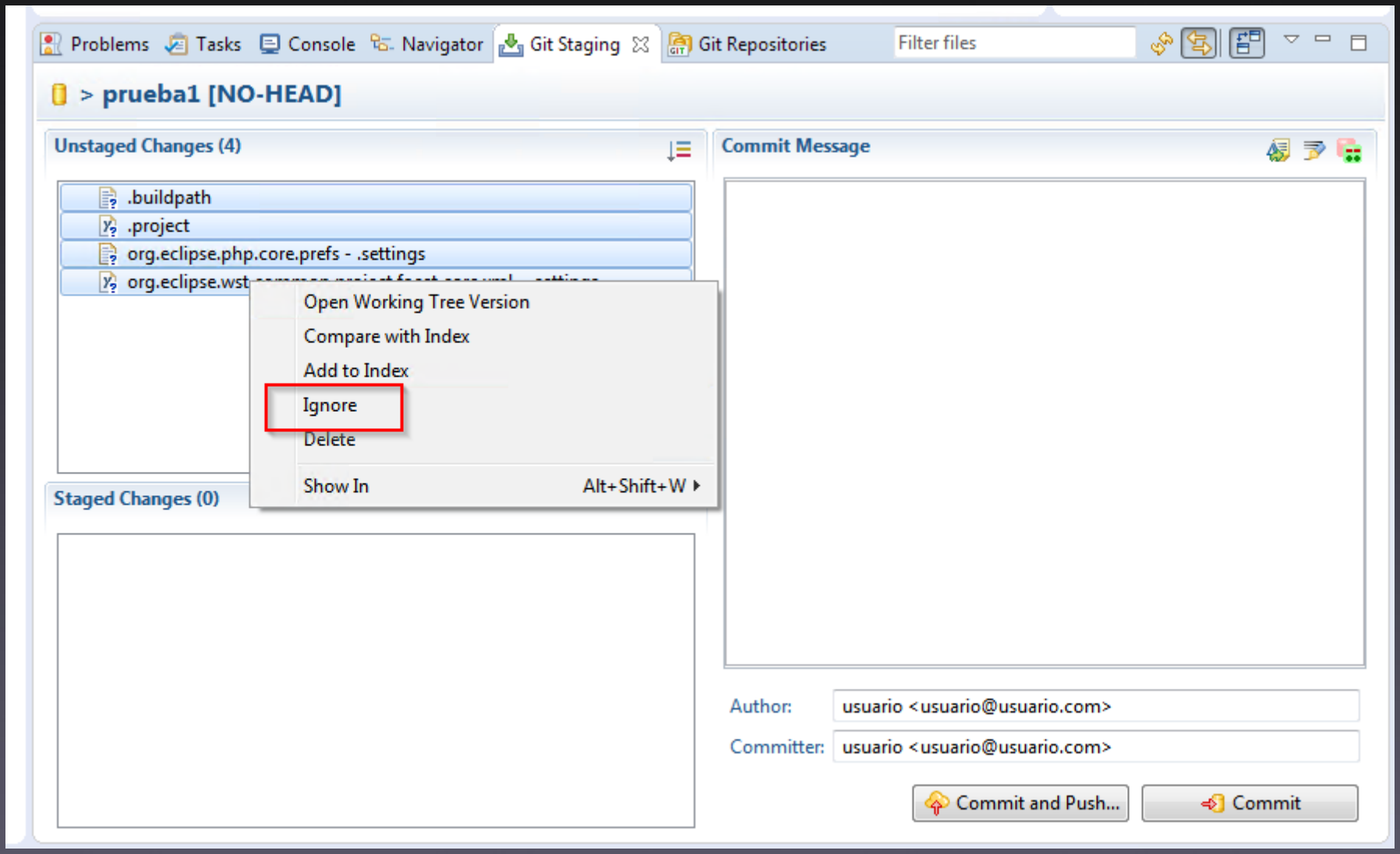

Window
Help
New Window
Editor
Appearance
Show View
Perspective
Navigation
Preferences
Console Alt+Shift+Q, C
Navigator
Outline Alt+Shift+Q, O
PHP Explorer
PHP Functions
PHP Project Outline
Problems Alt+Shift+Q, X
Task List Alt+Shift+Q, K
Tasks
Type Hierarchy
Other... Alt+Shift+Q, Q

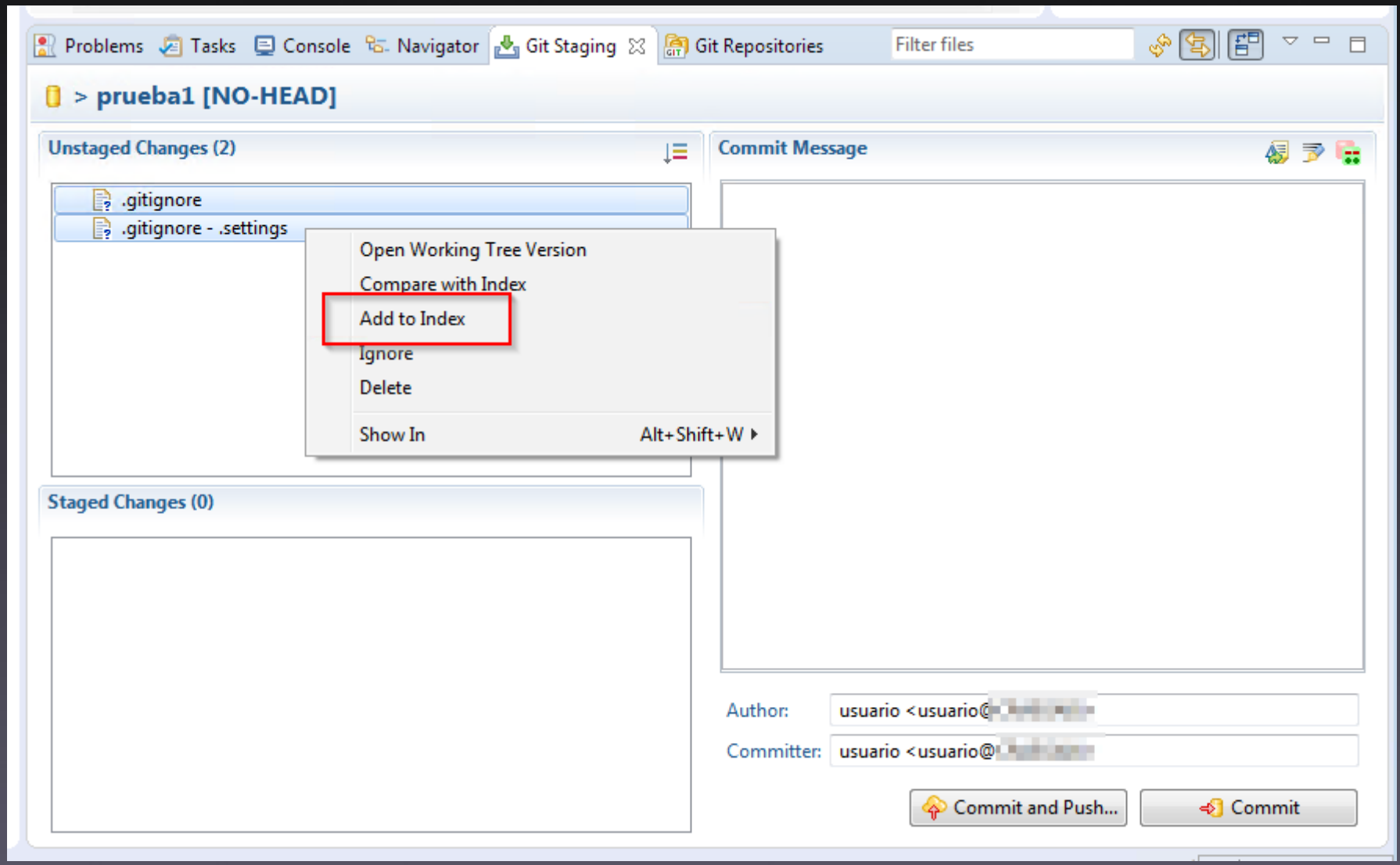
git

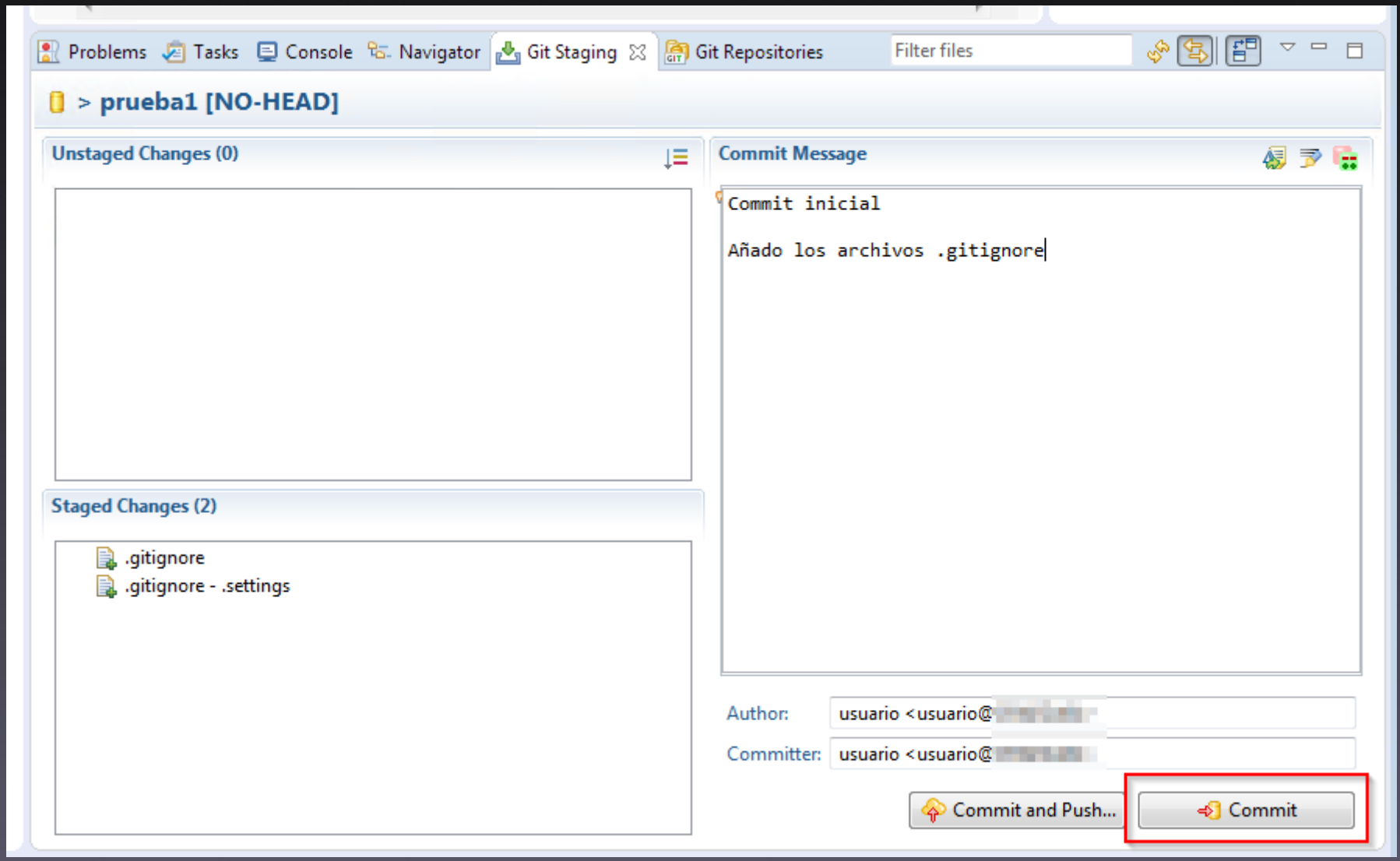

Show View
git
Git
Git Interactive Rebase
Git Reflog
Git Repositories
Git Staging
Git Tree Compare
OK
Cancel

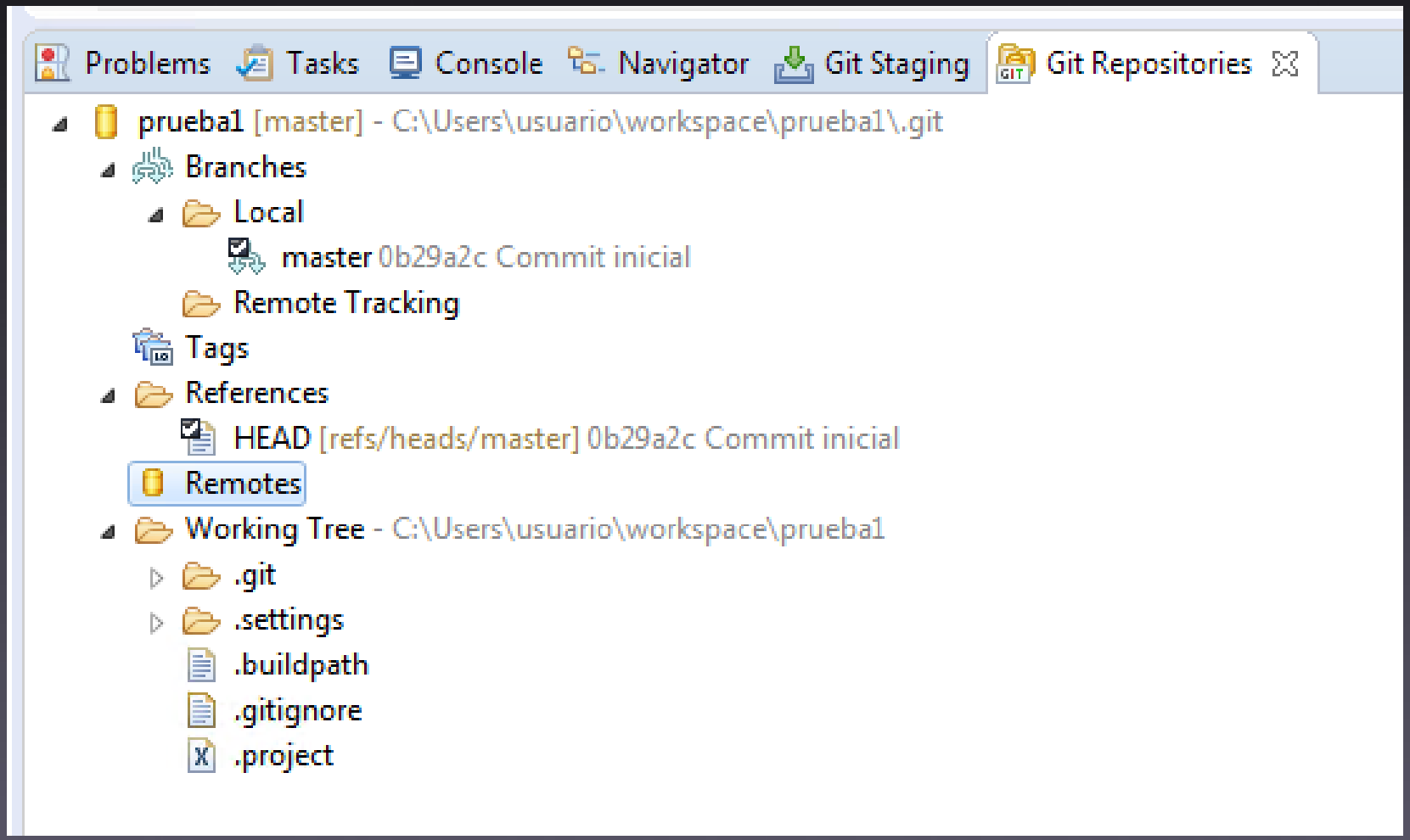

Problems
Tasks
Console
Navigator
Git Staging
Git Tree Compare
Git Repositories
Filter files
> prueba1 [NO-HEAD]
Unstaged Changes (4)
.buildpath
.project
org.eclipse.php.core.prefs - .settings
org.eclipse.wst.common.project.facet.core.xml - .settings
Staged Changes (0)
Commit Message
Author:
usuario <usuario@usuario.com>
Committer:
usuario <usuario@usuario.com>
Commit and Push...
Commit

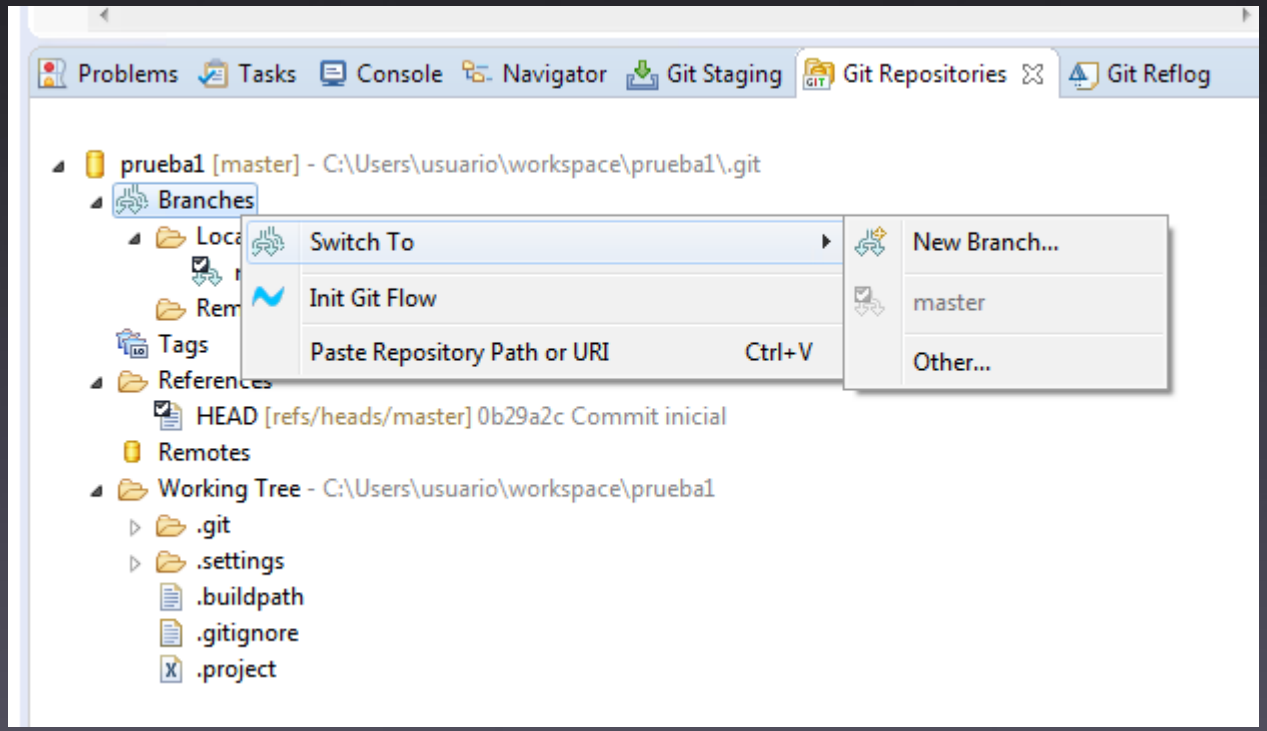

Problems
Tasks
Console
Navigator
Git Staging
Git Tree Compare
Git Repositories
> prueba1 [NO-HEAD] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
Remote Tracking
Tags
References
Remotes
Working Tree - C:\Users\usuario\workspace\prueba1
.git
.settings
.buildpath
.project

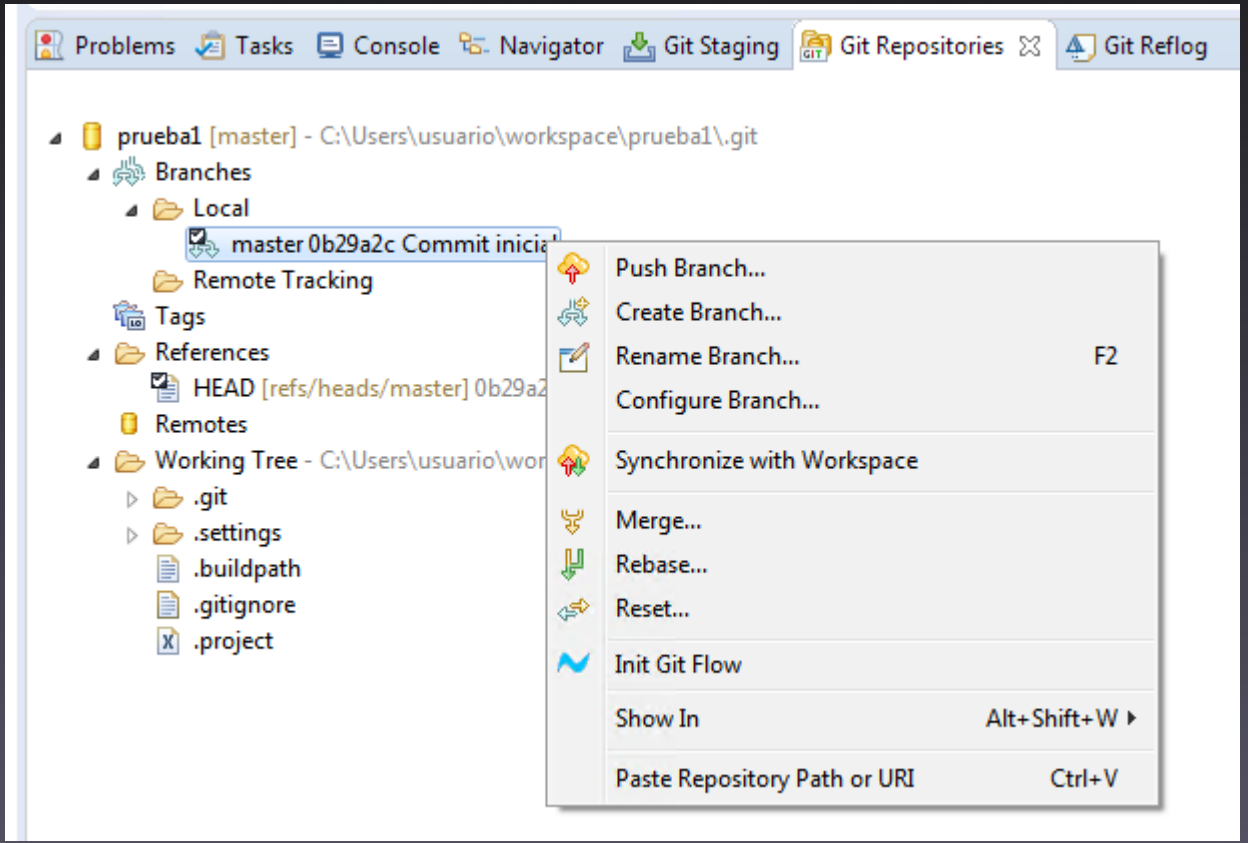

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Filter files
> prueba1 [NO-HEAD]
Unstaged Changes (4)
.buildpath
.project
org.eclipse.php.core.prefs - .settings
Open Working Tree Version
Compare with Index
Add to Index
Ignore
Delete
Show In
Alt+Shift+W
Staged Changes (0)
Commit Message
Author:
usuario <usuario@usuario.com>
Committer:
usuario <usuario@usuario.com>
Commit and Push...
Commit

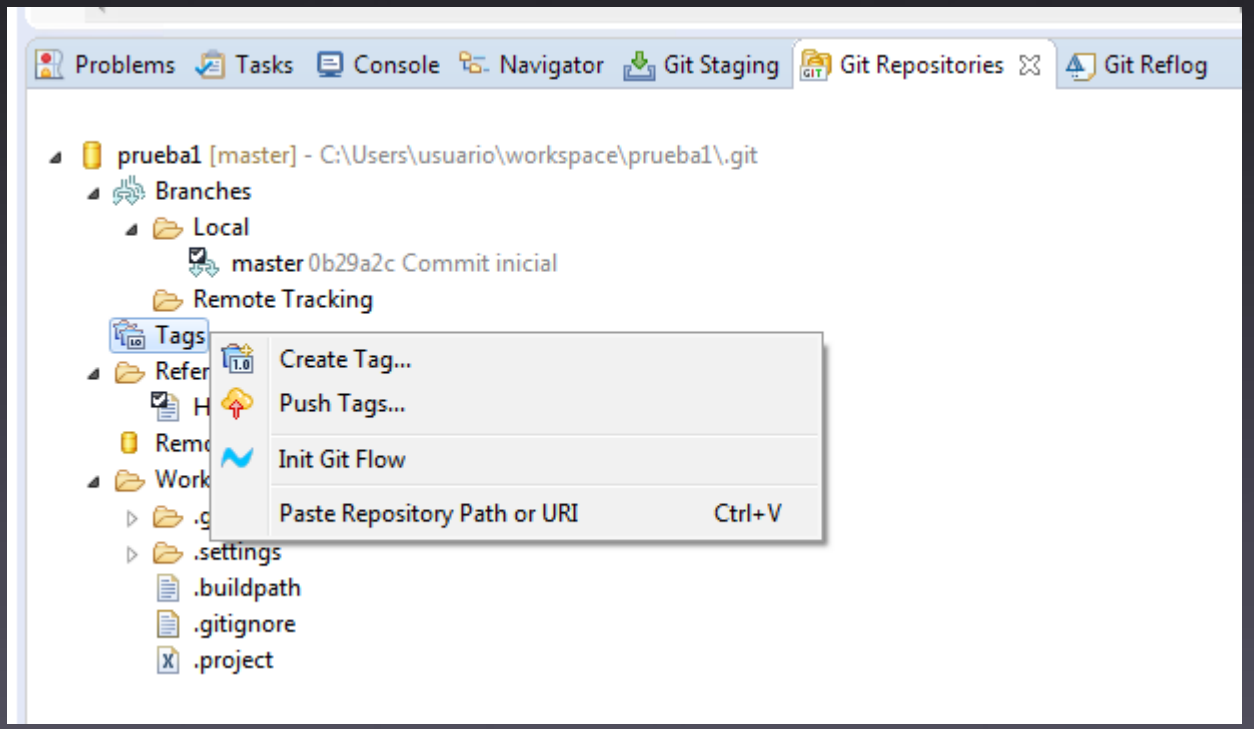

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Filter files
> prueba1 [NO-HEAD]
Unstaged Changes (2)
.gitignore
.gitignore - .settings
Open Working Tree Version
Compare with Index
Add to Index
Ignore
Delete
Show In
Alt+Shift+W
Staged Changes (0)
Commit Message
Author:
usuario <usuario@
Committer:
usuario <usuario@
Commit and Push...
Commit

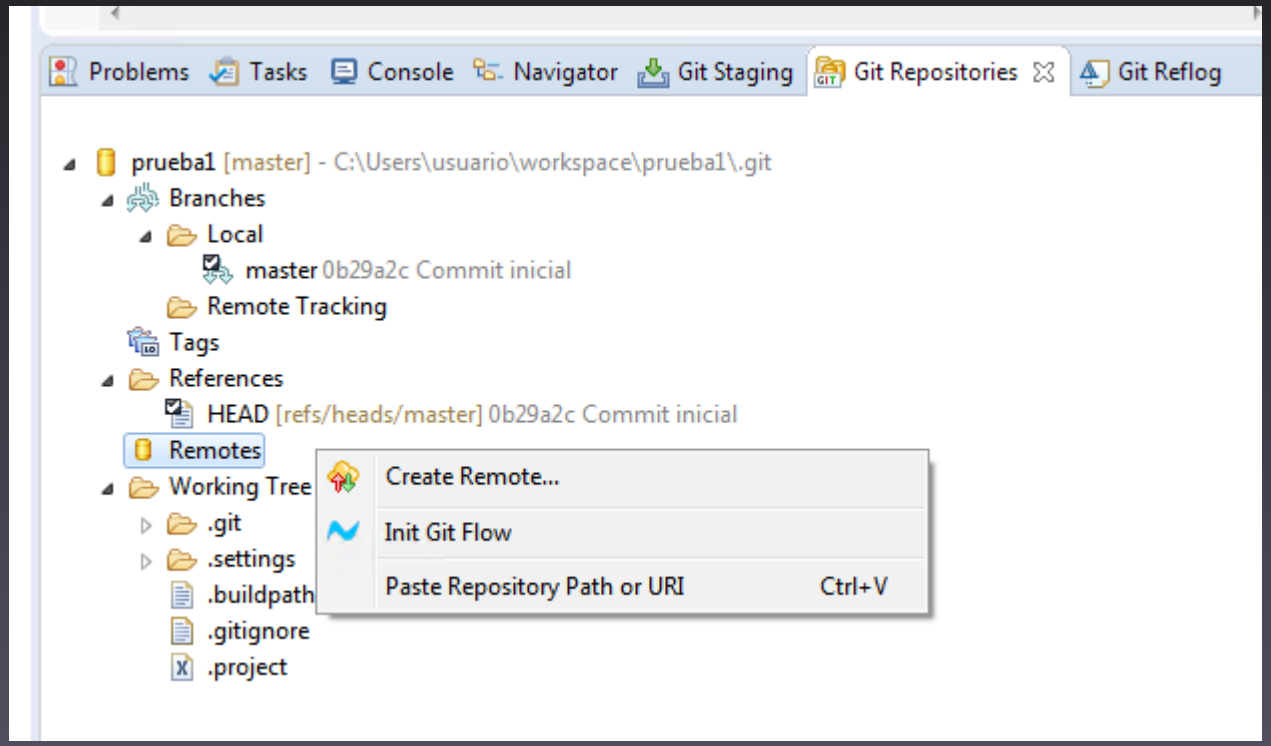

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Filter files
> prueba1 [NO-HEAD]
Unstaged Changes (0)
Staged Changes (2)
.gitignore
.gitignore - .settings
Commit Message
Commit inicial
Añado los archivos .gitignore
Author: usuario <usuario@
Committer: usuario <usuario@
Commit and Push...
Commit

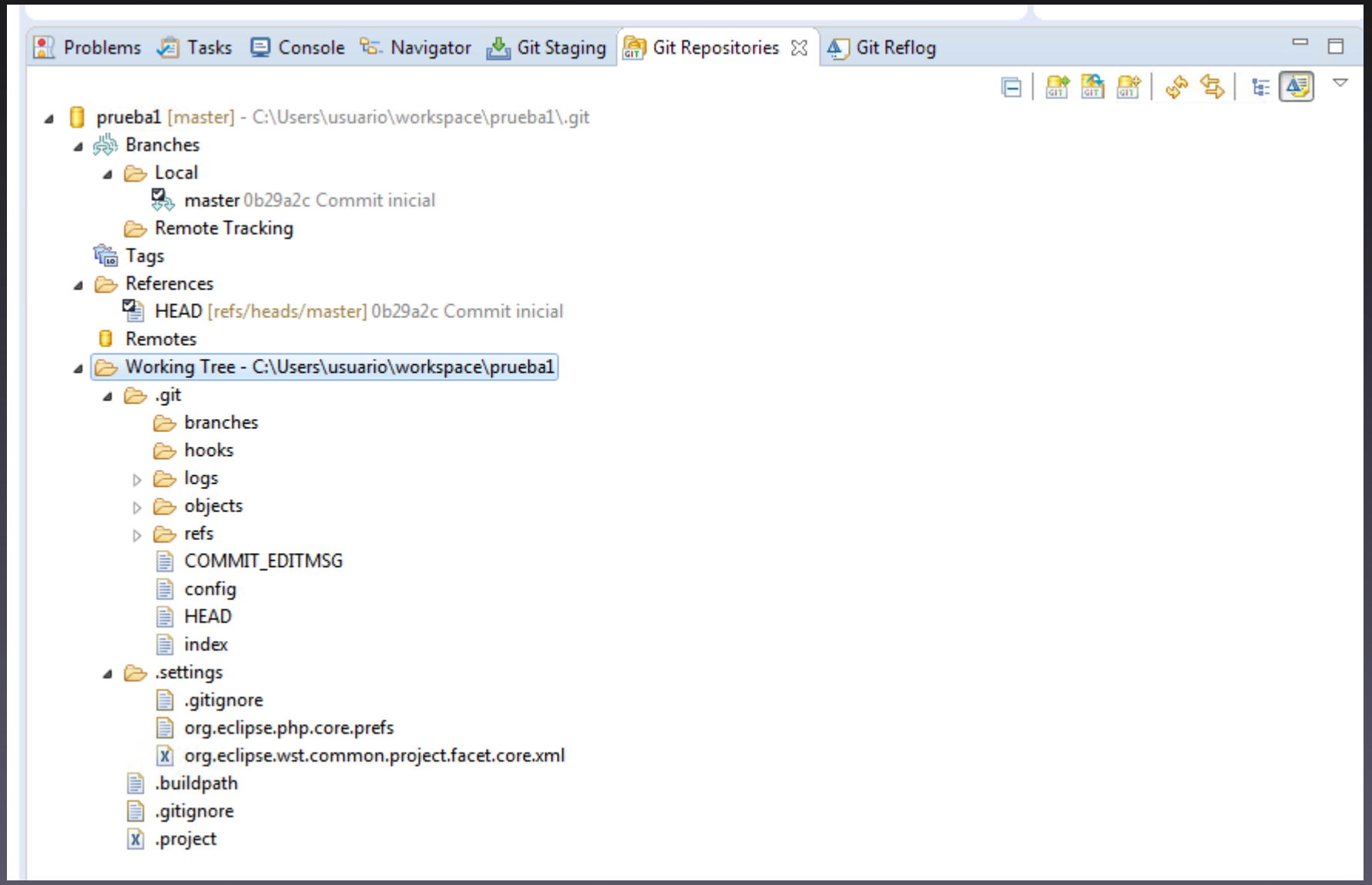

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
master 0b29a2c Commit inicial
Remote Tracking
Tags
References
HEAD [refs/heads/master] 0b29a2c Commit inicial
Remotes
Working Tree - C:\Users\usuario\workspace\prueba1
.git
.settings
.buildpath
.gitignore
.project

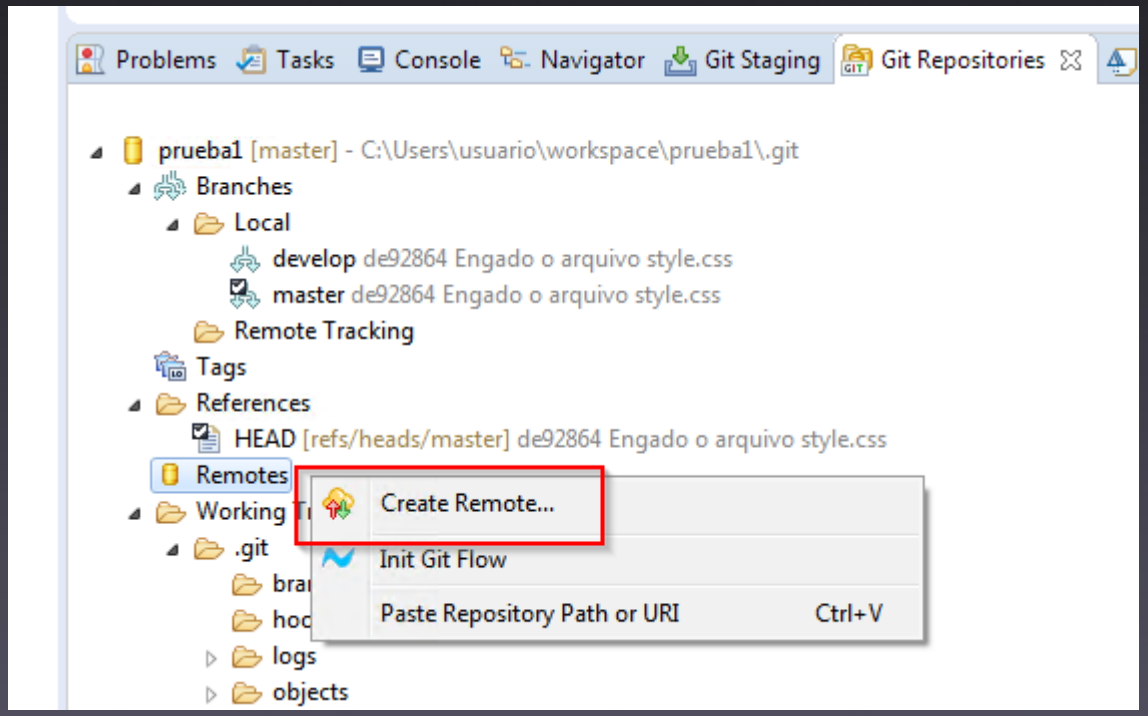

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Git Reflog
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Switch To
Init Git Flow
Paste Repository Path or URI Ctrl+V
New Branch...
master
Other...
Tags
HEAD [refs/heads/master] 0b29a2c Commit inicial
Remotes
Working Tree - C:\Users\usuario\workspace\prueba1
.git
.settings
.buildpath
.gitignore
.project

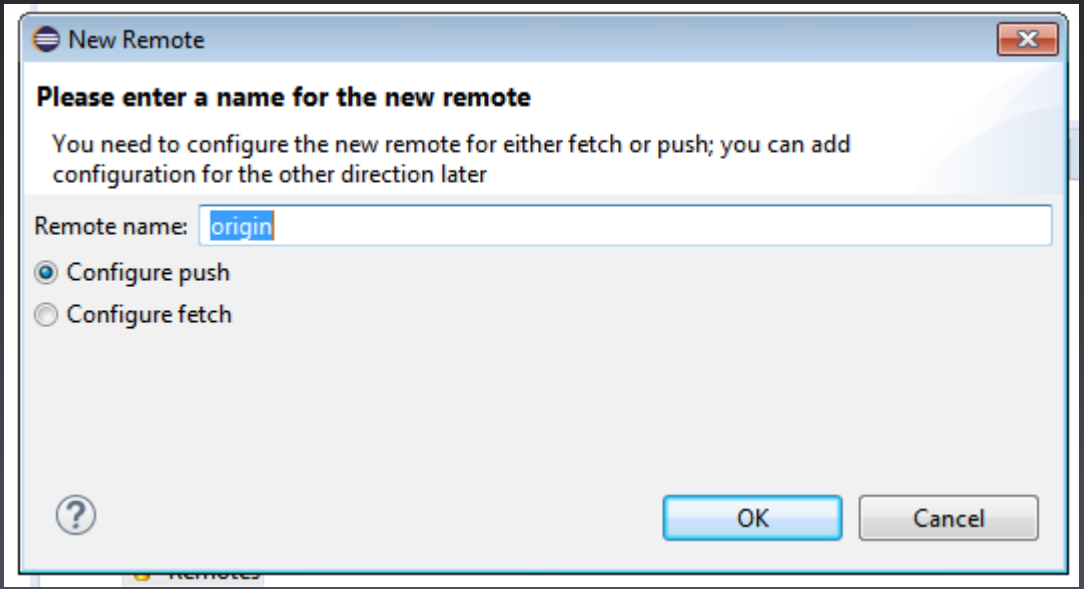

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Git Reflog
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
master 0b29a2c Commit inicia
Remote Tracking
Tags
References
HEAD [refs/heads/master] 0b29a2
Remotes
Working Tree - C:\Users\usuario\wor
.git
.settings
.buildpath
.gitignore
.project
Push Branch...
Create Branch...
Rename Branch... F2
Configure Branch...
Synchronize with Workspace
Merge...
Rebase...
Reset...
Init Git Flow
Show In Alt+Shift+W
Paste Repository Path or URI Ctrl+V

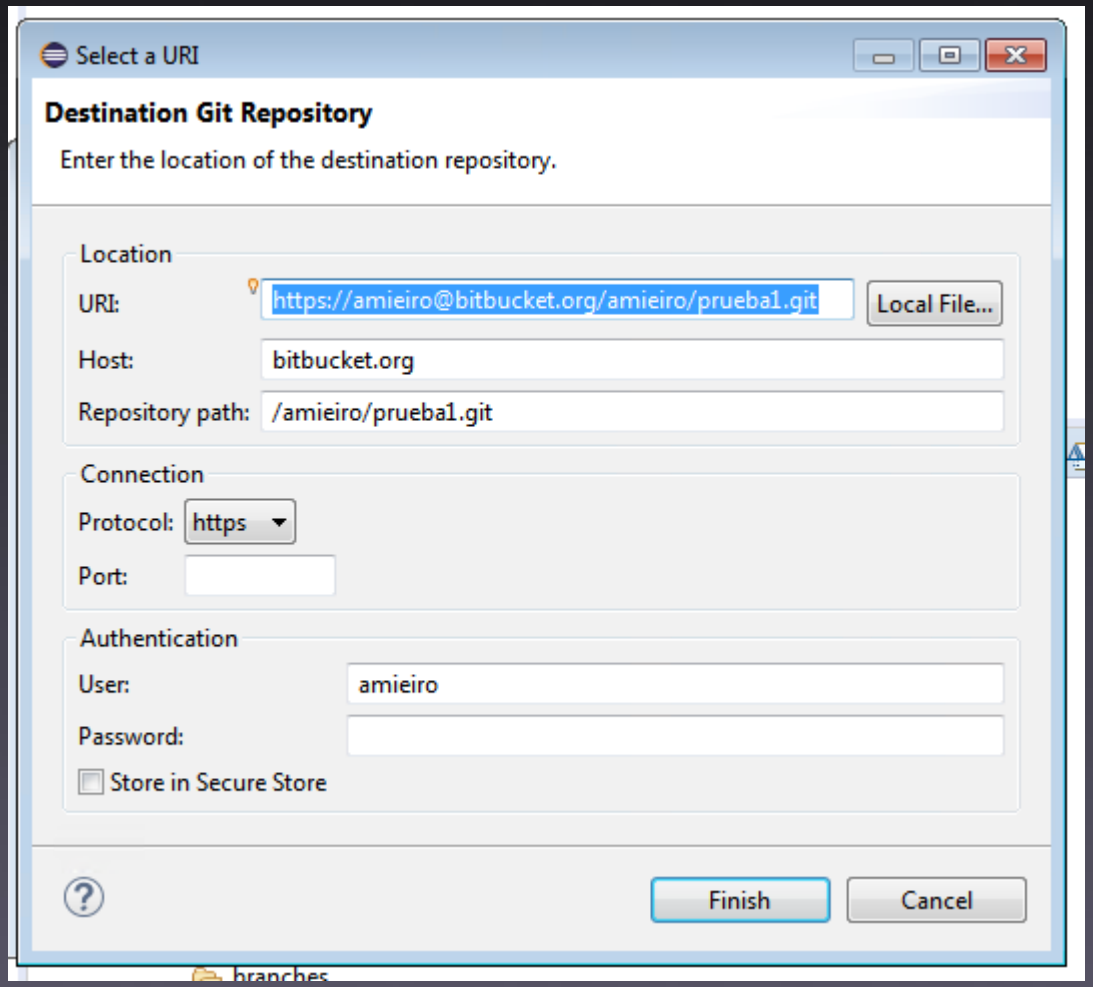

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Git Reflog
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
master 0b29a2c Commit inicial
Remote Tracking
Tags
Create Tag...
Push Tags...
Init Git Flow
Paste Repository Path or URI Ctrl+V
.settings
.buildpath
.gitignore
.project

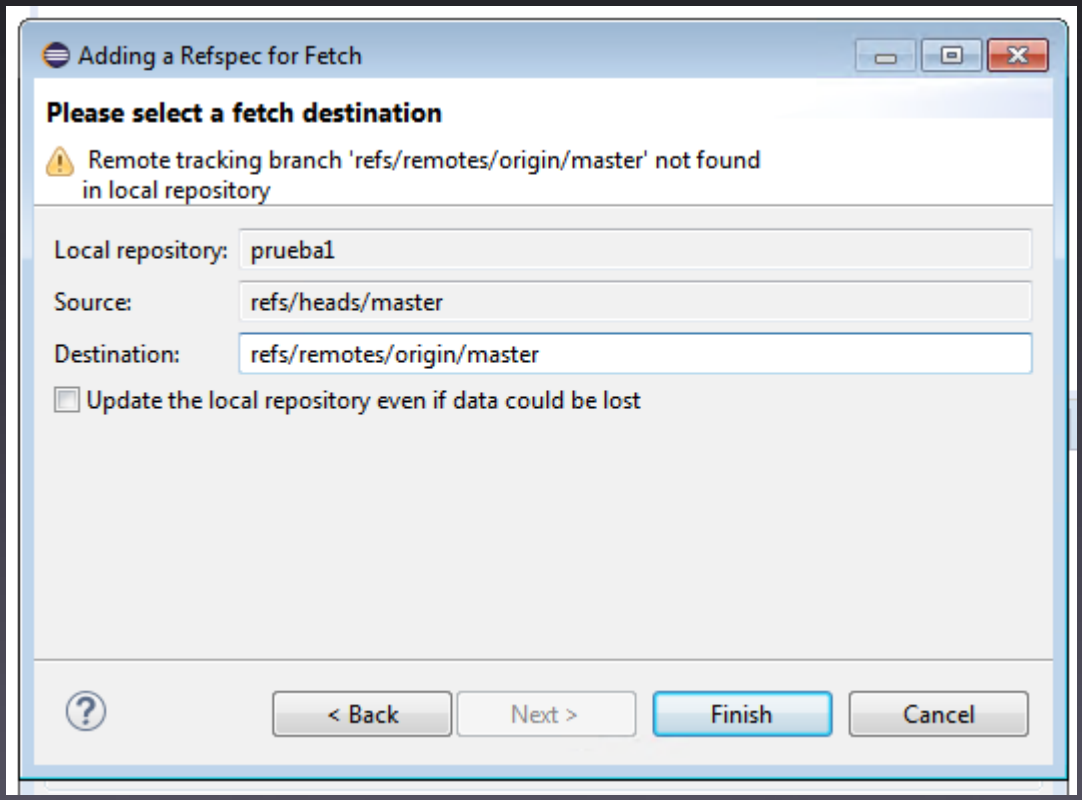

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Git Reflog
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
master 0b29a2c Commit inicial
Remote Tracking
Tags
References
HEAD [refs/heads/master] 0b29a2c Commit inicial
Remotes
Working Tree
.git
.settings
.buildpath
.gitignore
.project
Create Remote...
Init Git Flow
Paste Repository Path or URI Ctrl+V

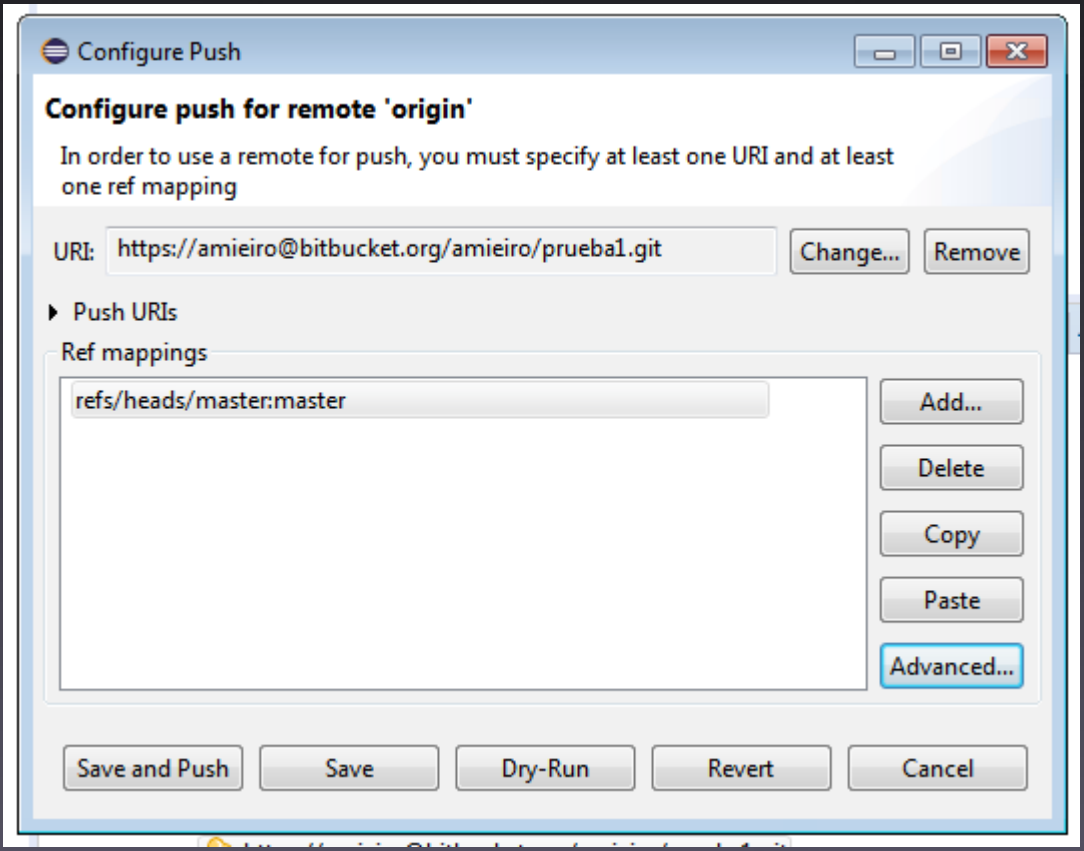

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
Git Reflog
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
master 0b29a2c Commit inicial
Remote Tracking
Tags
References
HEAD [refs/heads/master] 0b29a2c Commit inicial
Remotes
Working Tree - C:\Users\usuario\workspace\prueba1
.git
branches
hooks
logs
objects
refs
COMMIT_EDITMSG
config
HEAD
index
.settings
.gitignore
org.eclipse.php.core.prefs
org.eclipse.wst.common.project.facet.core.xml
.buildpath
.gitignore
.project

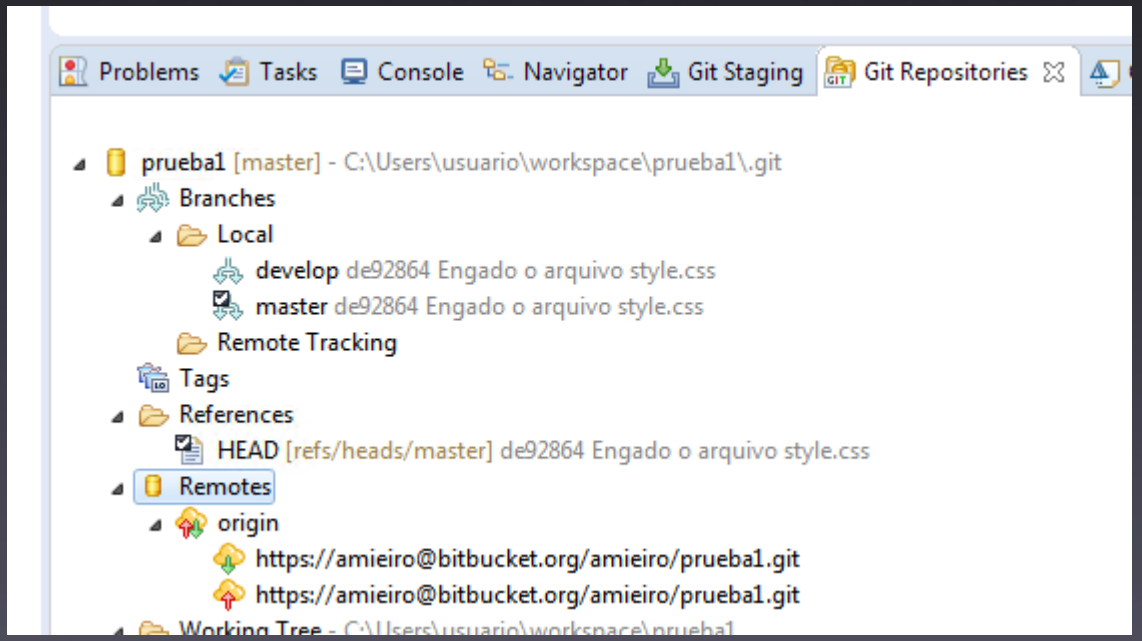

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
develop de92864 Engado o arquivo style.css
master de92864 Engado o arquivo style.css
Remote Tracking
Tags
References
HEAD [refs/heads/master] de92864 Engado o arquivo style.css
Remotes
Working
.git
logs
objects
Create Remote...
Init Git Flow
Paste Repository Path or URI
Ctrl+V


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:
origin
Configure push
Configure fetch
OK
Cancel

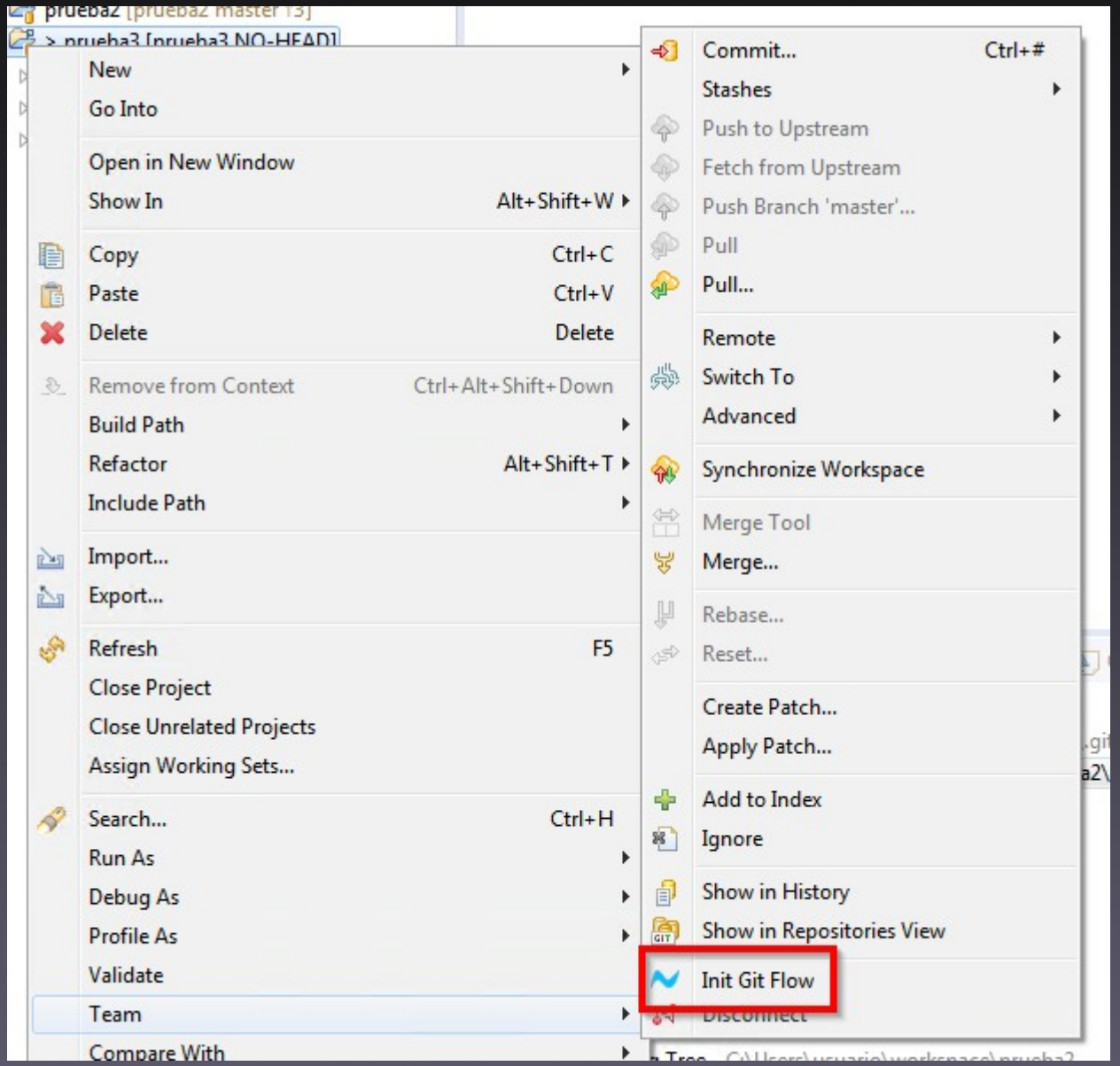

Select a URI
Destination Git Repository
Enter the location of the destination repository.
Location
URI:
https://amieiro@bitbucket.org/amieiro/prueba1.git
Local File...
Host:
bitbucket.org
Repository path:
/amieiro/prueba1.git
Connection
Protocol:
https
Port:
Authentication
User:
amieiro
Password:
Store in Secure Store
Finish
Cancel
branches

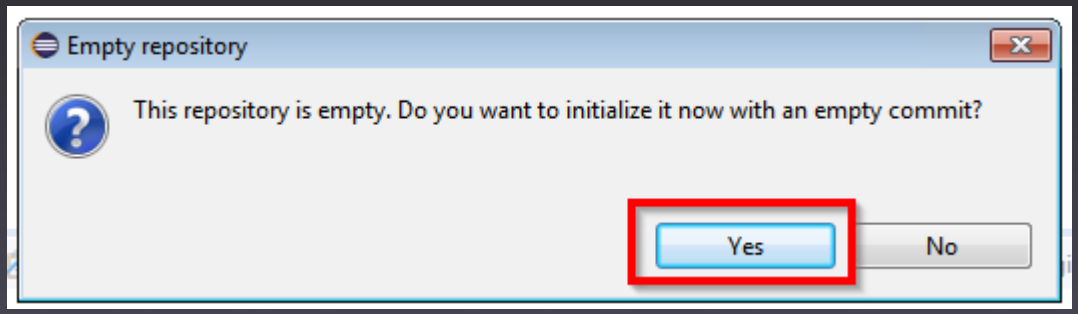

Adding a Refspec for Fetch
Please select a fetch destination
Remote tracking branch 'refs/remotes/origin/master' not found
in local repository
Local repository:
prueba1
Source:
refs/heads/master
Destination:
refs/remotes/origin/master
Update the local repository even if data could be lost
< Back
Next >
Finish
Cancel

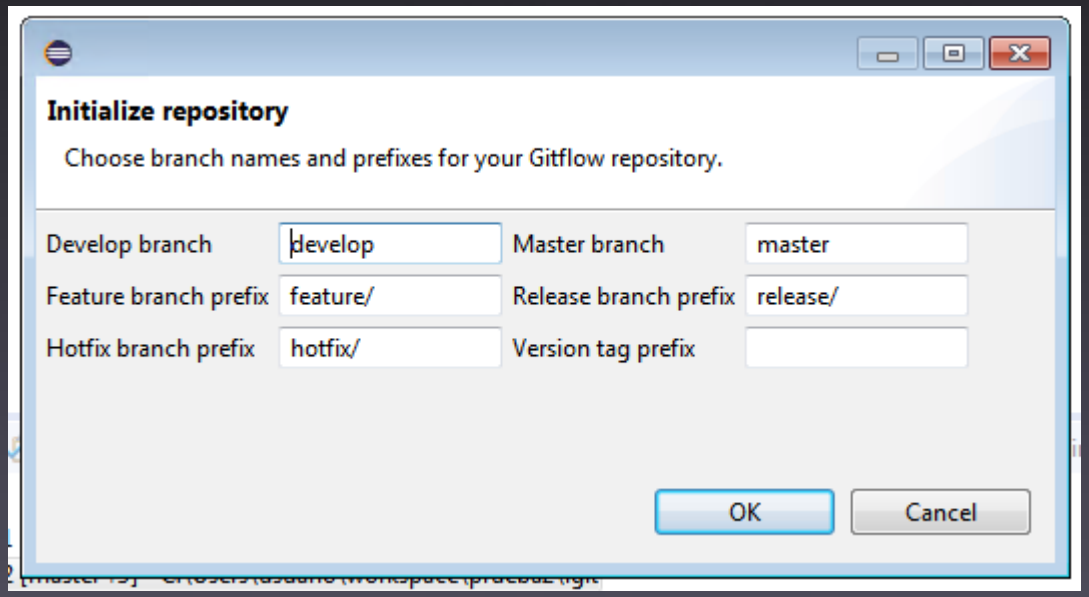

Configure Push
Configure push for remote 'origin'
In order to use a remote for push, you must specify at least one URI and at least one ref mapping
URI:
https://amieiro@bitbucket.org/amieiro/prueba1.git
Change...
Remove
Push URIs
Ref mappings
refs/heads/master:master
Add...
Delete
Copy
Paste
Advanced...
Save and Push
Save
Dry-Run
Revert
Cancel

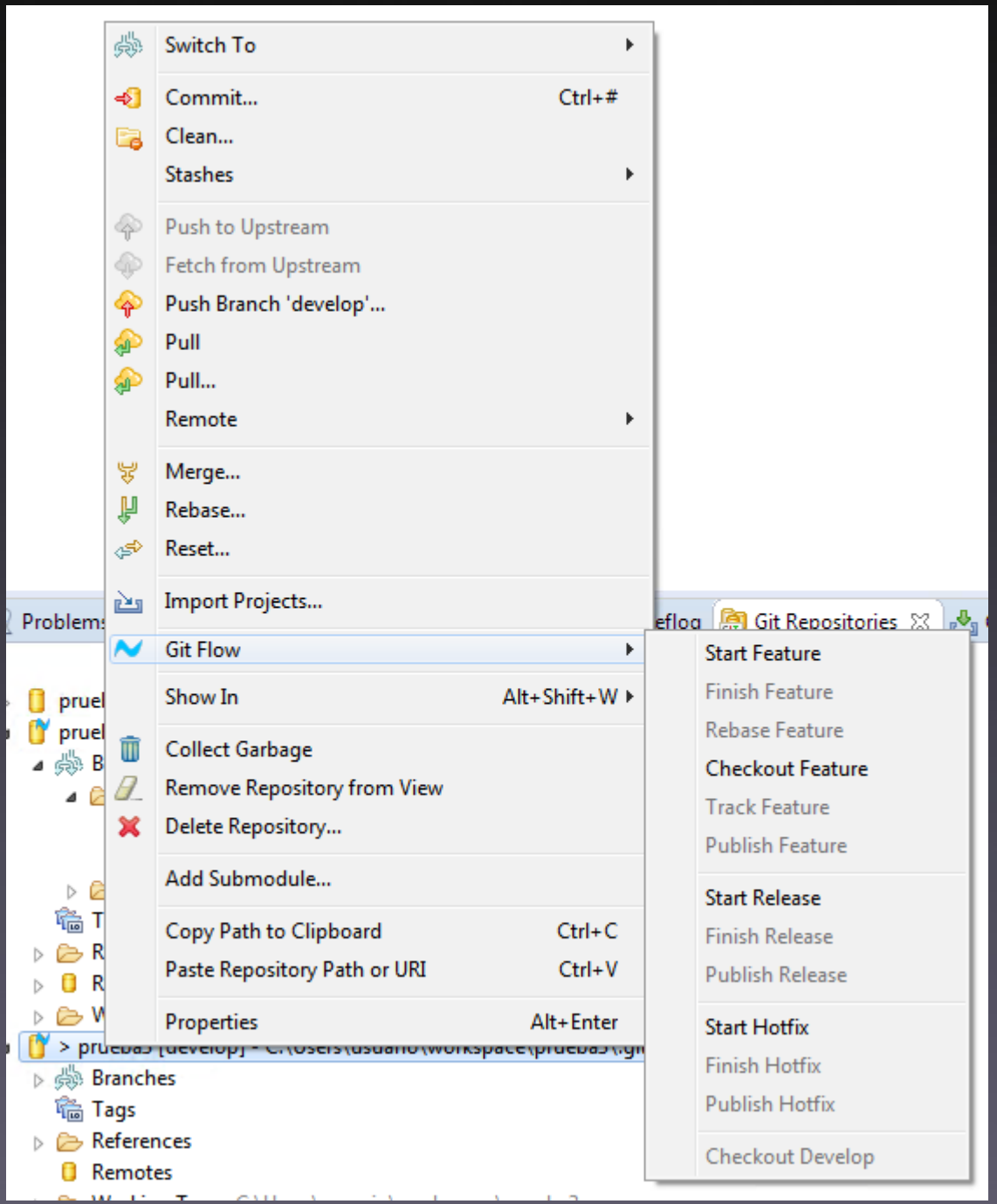

Problems
Tasks
Console
Navigator
Git Staging
Git Repositories
prueba1 [master] - C:\Users\usuario\workspace\prueba1\.git
Branches
Local
develop de92864 Engado o arquivo style.css
master de92864 Engado o arquivo style.css
Remote Tracking
Tags
References
HEAD [refs/heads/master] de92864 Engado o arquivo style.css
Remotes
origin
https://amieiro@bitbucket.org/amieiro/prueba1.git
https://amieiro@bitbucket.org/amieiro/prueba1.git

git-flow


New
Go Into
Open in New Window
Show In Alt+Shift+W
Copy Ctrl+C
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Build Path
Refactor Alt+Shift+T
Include Path
Import...
Export...
Refresh F5
Close Project
Close Unrelated Projects
Assign Working Sets...
Search... Ctrl+H
Run As
Debug As
Profile As
Validate
Team
Compare With
Commit... Ctrl+#
Stashes
Push to Upstream
Fetch from Upstream
Push Branch 'master'...
Pull
Pull...
Remote
Switch To
Advanced
Synchronize Workspace
Merge Tool
Merge...
Rebase...
Reset...
Create Patch...
Apply Patch...
Add to Index
Ignore
Show in History
Show in Repositories View
Init Git Flow


Empty repository
This repository is empty. Do you want to initialize it now with an empty commit?
Yes
No


Initialize repository
Choose branch names and prefixes for your Gitflow repository.
Develop branch
develop
Master branch
master
Feature branch prefix
feature/
Release branch prefix
release/
Hotfix branch prefix
hotfix/
Version tag prefix
OK
Cancel


Switch To
Commit... Ctrl+#
Clean...
Stashes
Push to Upstream
Fetch from Upstream
Push Branch 'develop'...
Pull
Pull...
Remote
Merge...
Rebase...
Reset...
Import Projects...
Git Flow
Show In Alt+Shift+W
Collect Garbage
Remove Repository from View
Delete Repository...
Add Submodule...
Copy Path to Clipboard Ctrl+C
Paste Repository Path or URI Ctrl+V
Properties Alt+Enter
Start Feature
Finish Feature
Rebase Feature
Checkout Feature
Track Feature
Publish Feature
Start Release
Finish Release
Publish Release
Start Hotfix
Finish Hotfix
Publish Hotfix
Checkout Develop
Git Repositories
Branches
Tags
References
Remotes

Exercicio 1

Exercicio 1

Por parellas: usuario1 (U1) e usuario2 (U2)

U1, U2: Configurar Eclipse

U1: Inicializar un repositorio

U1: Crear o arquivo .gitignore

U1: Realizar o commit deste arquivo

U1: Crear unha rama “develop” e cambiarse a ela

U1: Engadir un arquivo index.php

U1: Realizar o commit

Exercicio 1(II)

U1: Engadir un arquivo style.css

U1: Realizar o commit

U1: Fusionar os cambios da rama “develop” na rama “master”

U1: Configurar o remote

U1: Facer push das 2 ramas

U2: Clonar o proxecto

U2: Engadir unha liña no index.php na rama master

Exercicio 1(III)

U2: Engadir unha liña no style.css na rama develop

U2: Fusionar os cambios na rama master

U2: Facer o push das dúas ramas

U1: Facer o pull das dúas ramas

U1: Facer un ‘reset hard’ na rama master ao commit nº 3, “Engado o arquivo style.css”

U1: Facer o push forzado

U2: Facer o pull e ver o resultado

Exercicio 2

Exercicio 2 (I)

Por parellas: usuario1 (U1) e usuario2 (U2).

U1: Crear un proxecto en Eclipse con git-flow.

U1: Crear unha feature denominada "**gitignore**".

U1: Crear o arquivo ".gitignore", excluíndo do seguimento os arquivos de "build, project e settings".

U1: Facer o commit e finalizar a feature "**gitignore**".

U1: Publicar as ramas "master" e "develop".

U1: Crear unha feature denominada "**licencia**".

U1: Crear o arquivo coa licencia MIT: license.txt

Exercicio 2 (II)

U2: Clonar o proxecto e inicializalo con git-flow.

U2: Crear unha feature denominada “Sass”.

U2: Crear o arquivo con contido “sass/main.scss”.

U2: Realizar o commit.

U2: Crear o arquivo con contido “sass/header.scss”.

U2: Realizar o commit.

U2: Crear o arquivo con contido “sass/footer.scss”.

U2: Realizar o commit.

Exercicio 2 (III)

U2: Crear o arquivo con contido “sass/sidebar.scss”.

U2: Realizar o commit.

U2: Crear o arquivo con contido “sass/main.scss”.

U2: Realizar o commit.

U2: Crear unha feature denominada “readme”.

U2: Crear o arquivo con contido: readme.md

U2: Realizar o commit.

U1: Facer o commit e finalizar a feature “**licencia**”.

Exercicio 2 (IV)

U1: Publicar a rama “develop”.

U2: Levar os cambios de “develop” á feature “Sass”.

U2: Finalizar as features “Sass” e “readme”.

U2: Publicar a rama “develop”.

U1: Crear a release 0.1.0, cun arquivo “version.txt” onde se indique a versión e publicala.

U1: resolver un erro coa licencia en produción, que tiña que ser GPL v2 en vez de MIT. Indicalo no arquivo readme.md. Publicar o bugfix co número de versión adecuado.

Onde continuar?

Libro “Pro Git” https://progit.org

Libro “Version Control with Git” de O'Really

http://wiki.eclipse.org/EGit/User_Guide

http://nvie.com/posts/a-successful-git-branching-model/

https://github.com/petervanderdoes/gitflow-avh/wiki

https://yakiloo.com/getting-started-git-flow/

www.jesusamieiro.com