

Social Coding GitHub

허광남

kenu@okjsp.pe.kr

agenda

- svn < git
- github.com
- EGit; Eclipse git plugin

svn < git

svn < git

알게 된 것은

CVS 2000

SVN 2006

Git 2008

svn < git

하지만

쓰기 시작한 때는

CVS 2002

SVN 2008

Git 2011

Because of

Legacy Source Code
Repository

Migration & Adaptation
matters

git-scm.org

Git is...

Git Quick Start

The screenshot shows the git-scm.org homepage. At the top is a banner with the 'git' logo and the tagline 'the fast version control system'. Below the banner is a navigation bar with links: Home, About Git, Documentation, Download, Tools & Hosting, and Wiki.

The main content area is divided into three columns:

- Git is...**: A section describing Git as a free & open source, distributed version control system. It mentions that every Git clone is a full-fledged repository with complete history and full revision tracking capabilities. It also states that branching and merging are fast and easy to do. A note mentions that Git is used for version control of files, much like tools such as Mercurial, Bazaar, Subversion, CVS, Perforce, and Visual SourceSafe.
- Projects using Git**: A list of projects that use Git, including Git, Linux Kernel, Perl, Eclipse, Gnome, KDE, Qt, Ruby on Rails, Android, PostgreSQL, Debian, and X.org.
- Download Git**: A section for downloading the latest stable Git release (v1.7.5). It provides links for Windows, Mac OSX, and Source. It also includes links for 'Other Download Options' and 'Git Source Repository'.

Below the main content area is a green bar with the text 'Git Quick Start'. Underneath this bar are two columns of code snippets:

- Cloning and Creating a Patch**:

```
$ git clone git://github.com/git/hello-world.git
$ cd hello-world
$ (edit files)
$ git add (files)
$ git commit -m 'Explain what I changed'
$ git format-patch origin/master
```
- Creating and Committing**:

```
$ cd (project-directory)
$ git init
$ (add some files)
$ git add .
$ git commit -m 'Initial commit'
```

Below the code snippets is a green bar with the text 'Got a Question?'. Underneath this bar are three columns of text:

- Chat**: If you are curious about something, feel free to ask on the IRC channel dedicated to Git - [#git on freenode](#).
- FAQ**: If you have a question that you think might be common, you can quickly check the [Git FAQ](#) page.
- Email**: You can also ask the Git community directly at our git@vger.kernel.org mailing list.

At the bottom of the page, there is a section titled 'To learn more about how to use Git, move along to the [Documentation](#)'. Below this section are three boxes:

- A box stating 'Git is a member of the [Software Freedom Conservancy](#)'.
- A box stating 'This page is maintained by Scott Chacon. Please email me at schacon@gmail.com with patches, suggestions and comments. Source for this [website](#) was forked from Petr Baudis's [git.or.cz](#)'.
- A box stating 'hosting donated by: [github](#) GIT HOSTING'.

Git is...

프리

오픈 소스

distributed

VCS

Git clone is

full-fledged

repository

not dependent

on network

Git is...

Git is a **free & open source, distributed version control system** designed to handle everything from small to very large projects with speed and efficiency.

Every Git clone is a full-fledged repository with complete history and full revision tracking capabilities, not dependent on network access or a central server.
Branching and merging are fast and easy to do.

Git is used for version control of files, much like tools such as Mercurial, Bazaar, Subversion, CVS, Perforce, and Visual SourceSafe.

git created by

Linus Torvalds

http://en.wikipedia.org/wiki/Linus_Torvalds



클론하기, 패치하기

Cloning and Creating a Patch

```
$ git clone git://github.com/git/hello-world.git
$ cd hello-world
$ (edit files)
$ git add (files)
$ git commit -m 'Explain what I changed'
$ git format-patch origin/master
```

github.com

jQuery

Ruby on Rails

CakePHP

node.js

jenkins

...

The screenshot shows the GitHub homepage with the following elements:

- Header:** GitHub logo with "SOCIAL CODING" tagline. Navigation links: Pricing and Signup, Explore GitHub, Features, Blog, Login.
- Hero Section:** A dark blue banner stating "728,773 people hosting over 2,046,928 git repositories". Below it, a list of popular repositories: jQuery, reddit, Sparkle, curl, Ruby on Rails, node.js, ClickToFlash, Erlang/OTP, CakePHP, Redis, and many more. A search bar says "Find any repository".
- Logos:** A row of logos for Twitter, Facebook, Rackspace Hosting, Digg, Yahoo!, Shopify, EMI, and Six Apart.
- Git vs GitHub Comparison:**
 - git /'git/**: "Git is an extremely fast, efficient, distributed version control system ideal for the collaborative development of software."
 - git·hub /'git,hʌb/**: "GitHub is the best way to collaborate with others. Fork, send pull requests and manage all your **public** and **private** git repositories."
- Plans, Pricing and Signup:** A blue button with the text "Unlimited public repositories are **free**!".
- Features:** A section titled "Free public repositories, collaborator management, issue tracking, wikis, downloads, code review, graphs and much more..."
- Feature Grid:**
 - Team management:** "30 seconds to give people access to code. No SSH key required. Activity feeds keep you updated on progress." Link: More about collaboration.
 - Code review:** "Comment on changes, track issues, compare branches, send pull requests and merge forks." Link: More about code review.
 - Reliable code hosting:** "We spend all day and night making sure your repositories are **secure**, **backed up** and **always available**." Link: More about code hosting.
 - Open source collaboration:** "Participate in the most important open source community in the world today—online or at one of our meetups." Link: More about our community.
- Footer:** Links for Blog, Support, Training, Job Board, Shop, Contact, API, Status. Copyright: © 2011 GitHub Inc. All rights reserved. Terms of Service, Privacy, Security. Rackspace Hosting logo and text: "Powered by the Dedicated Servers and Cloud Computing of Rackspace Hosting®". Language selector: English, Deutsch, Français, 日本語, Português (BR), Русский, 中文. Link: See all available languages.

Hi, kenu

News Feed

News Feed

Your Actions

Pull Requests

Switch Context

GitHub Bootcamp If you are still new to things, we've provided a few walkthroughs to get you started.



Set Up Git

A quick guide to help you get started with Git.



Create A Repository

Create the place where your commits will be stored.



Fork a Repository

Copy a repo to create a new, unique project from its contents.



Be social

Follow a friend.
Watch a project.

cameronmcefee closed **issue 18** on **octocat/Spoon-Knife** about 18 hours ago



coding is interesting

dingzhihu opened **issue 18** on **octocat/Spoon-Knife** about 18 hours ago



coding is interesting

olamy commented on **pull request 107** on **jenkinsci/jenkins** about 23 hours ago



merged. Thanks !

Your Repositories (2)

New Repository

Find a repository...

All Repositories

Public

Private

Sources

Forks

kenu/Spoon-Knife

kenu/Hello-World

Hi, kenu

News Feed

Your Actions

Pull Requests

개발자 디자인이 아님

News Feed
Switch Context

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merged. Thanks !

Your Repositories (2)

New Repository

Find a repository...

All Repositories

Public

Private

Sources

Forks

kenu/Spoon-Knife

kenu/Hello-World

Set up git



First: Download and Install Git

Next: Set Up SSH Keys

Then: Set Up Your Info

Lastly: Celebrate

Create A Repository



First: Create A Repo

Next: Create a README for your repo.

Lastly: Celebrate

Fork A Repo



First: Fork A Repo

Next: Set Up Your Local Repo

Then: More Things You Can Do

Lastly: Celebrate

Be Social



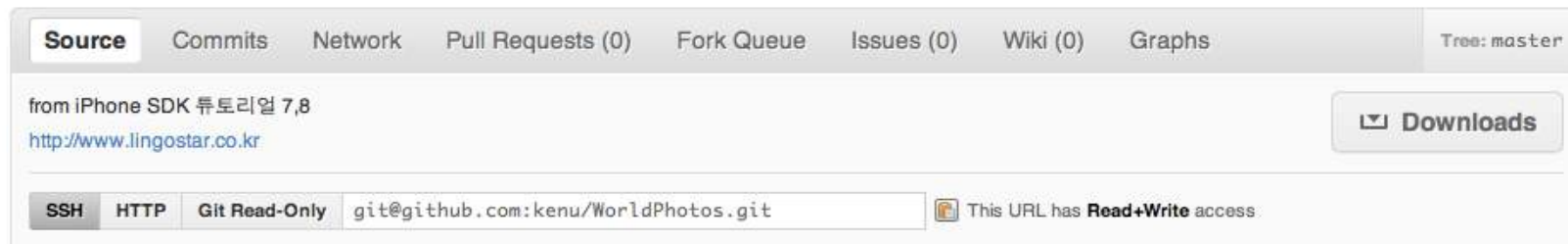
First: Follow A Friend

Next: Watch A Project

Then: More Things You Can Do

Lastly: Celebrate

Local Repo to github



Global setup:

Download and install [Git](#)

```
git config --global user.name "kenu"
git config --global user.email kenu@okjsp.pe.kr
```

Next steps:

```
mkdir WorldPhotos
cd WorldPhotos
git init
touch README
git add README
git commit -m 'first commit'
git remote add origin git@github.com:kenu/WorldPhotos.git
git push -u origin master
```

Existing Git Repo?

```
cd existing_git_repo
git remote add origin git@github.com:kenu/WorldPhotos.git
git push -u origin master
```

Importing a Subversion Repo?

[Click here](#)

When you're done:

[Continue](#)

public SVN to github

Import a Subversion Repository

- If the repo you are importing is very large, your import may time out.
- If your subversion repository contains a non-standard directory structure, this import process will probably not work for you.
- This service currently only supports public subversion repositories.
- You can find details on how to run a manual import [here](#).

SVN Repository URL 

Import SVN Authors

EGit; Eclipse git plugin

eclipse.org/egit



The screenshot shows the Eclipse EGit project website. At the top, there's the Eclipse logo and navigation links: Home, Download, Documentation, Support, Developers. A search bar is also present. Below the navigation, there's a large banner with the EGit logo (a blue cup with green leaves) and the text "EGit". To the right of the banner are four buttons: "Download" (Eclipse Distribution, Update Site, Dropins), "Support" (Bug Tracker, Newsgroup, Professional Support), "Documentation" (Tutorials, Examples, Videos, Online Reference), and "Getting Involved" (CVS, Workspace Setup, Wiki, Committers). Below the banner, there's a section titled "EGit" with a star icon and the text "Star EGit as a favorite on Marketplace!". Below this, there's a paragraph describing EGit as an Eclipse Team provider for the Git version control system. To the right, there's a section titled "Incubation" with the text "EGit is in the Incubation Phase." and an "eclipse incubation" logo. Below the incubation section, there's a "Committers" list with names and affiliations. At the bottom, there's a footer with links: Home, Privacy Policy, Terms of Use, Copyright Agent, Legal, Contact Us, and a copyright notice: Copyright © 2011 The Eclipse Foundation. All Rights Reserved.

Visit other Eclipse Sites

mp mp mp mp mp mp mp

Home Download Documentation Support Developers

Google™ Custom Search Search

 **EGit**

 **Download**
Eclipse Distribution,
Update Site, Dropins

 **Support**
Bug Tracker, Newsgroup
Professional Support

 **Documentation**
Tutorials, Examples,
Videos, Online Reference

 **Getting Involved**
CVS, Workspace Setup,
Wiki, Committers

EGit

★ Star EGit as a favorite on Marketplace!

EGit is an Eclipse Team provider for the [Git version control system](#). Git is a distributed SCM, which means every developer has a full copy of all history of every revision of the code, making queries against the history very fast and versatile.

The EGit project is implementing Eclipse tooling on top of the [JGit](#) Java implementation of Git.

Incubation

EGit is in the [Incubation Phase](#).

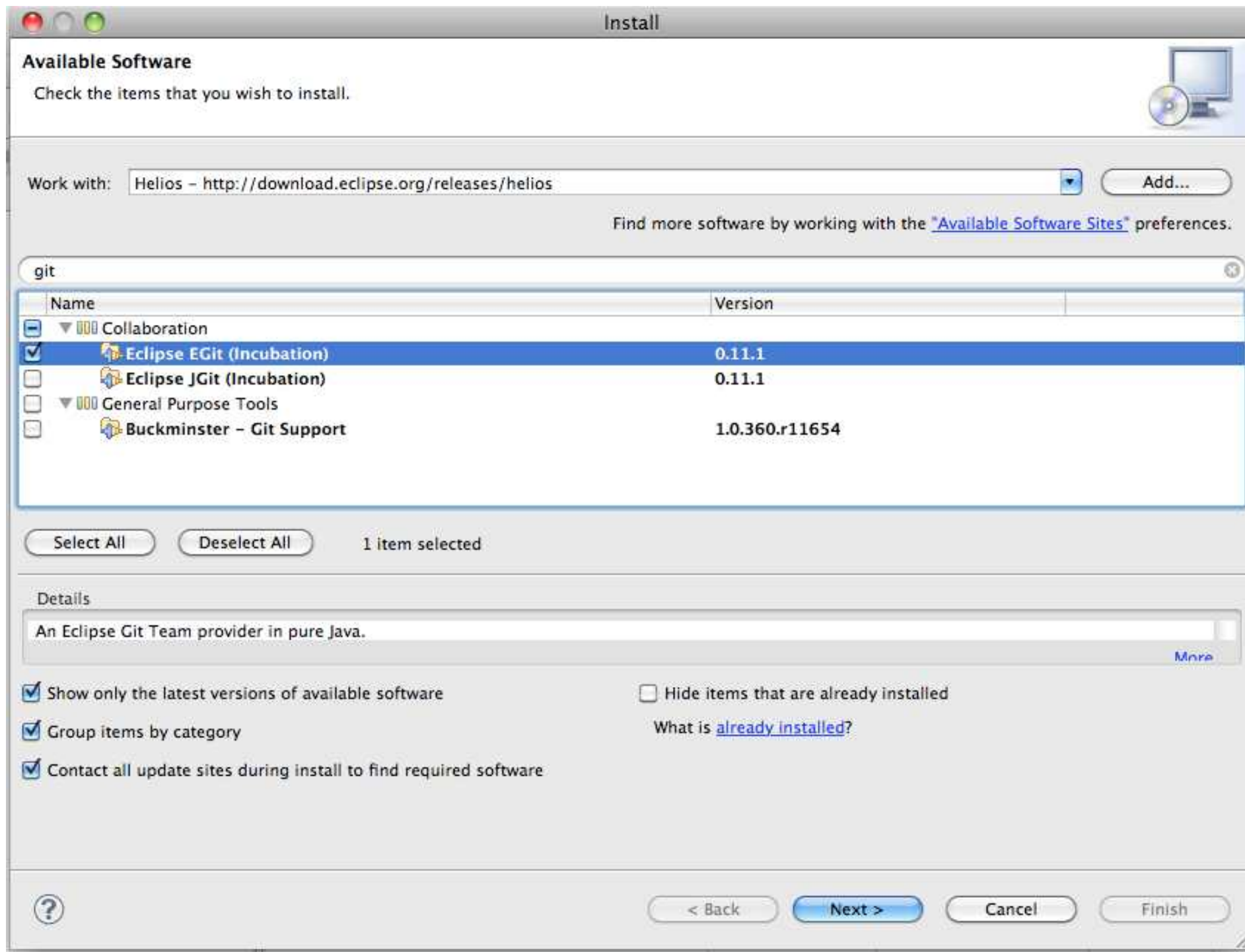


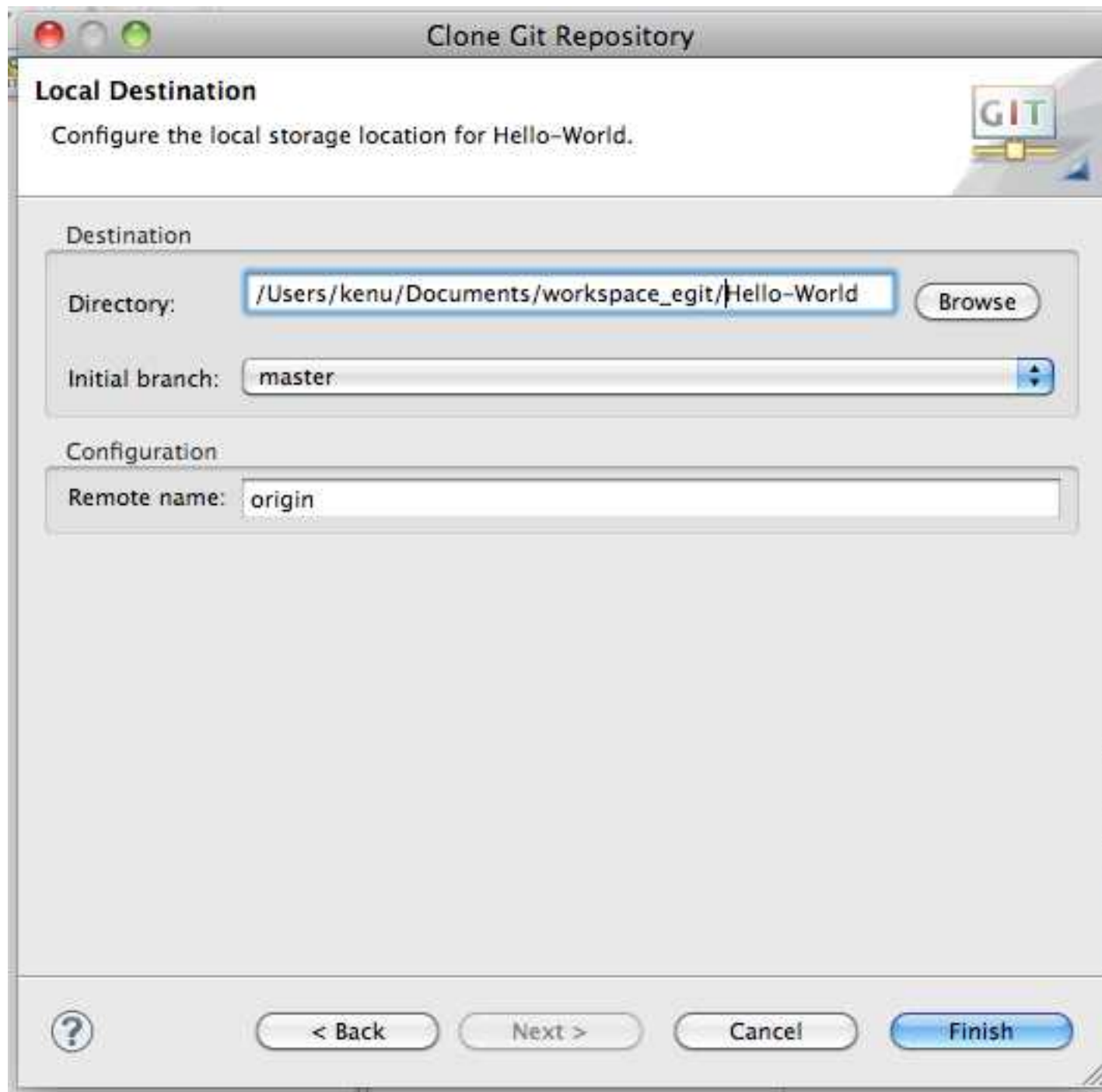
Committers

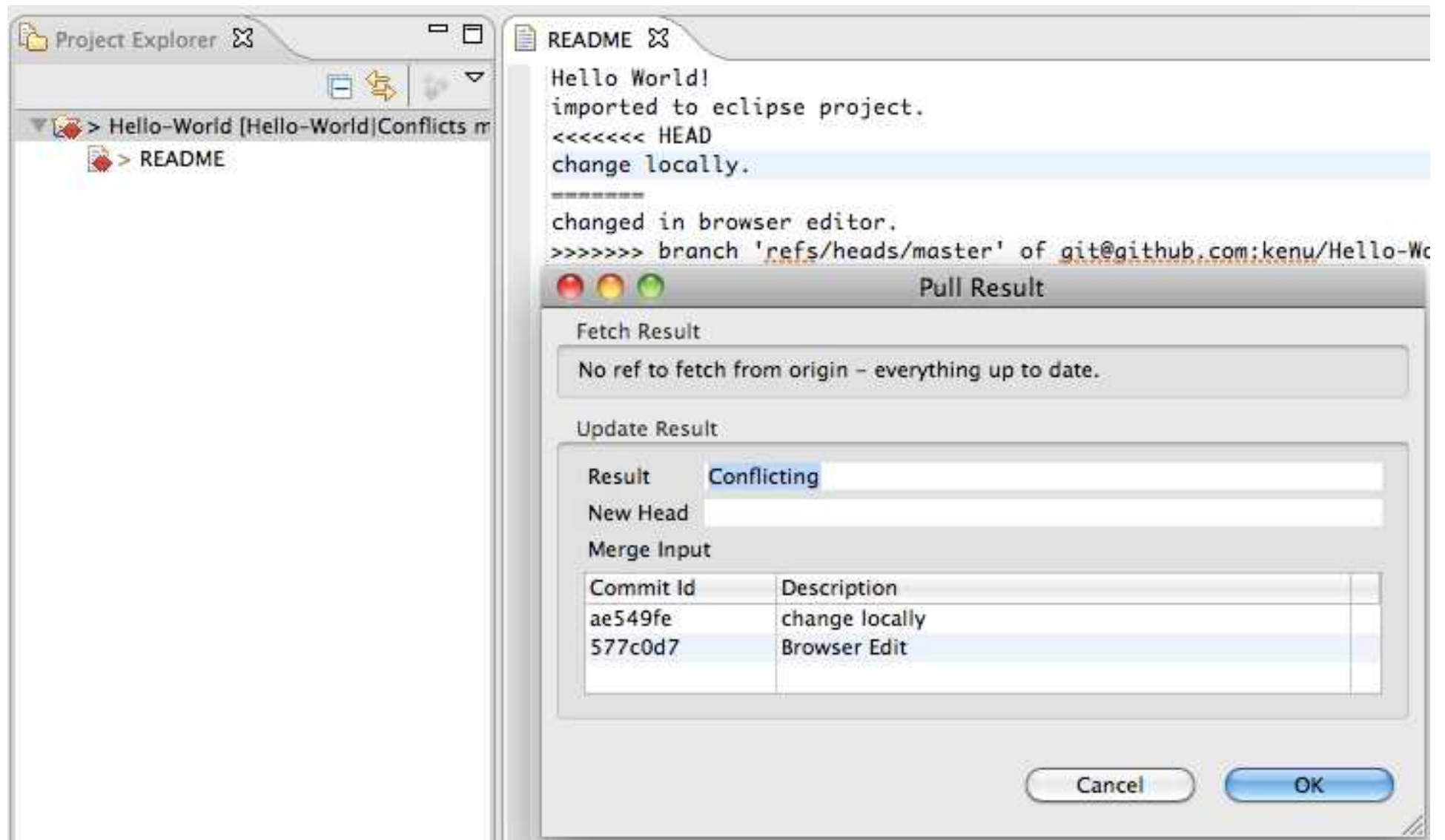
- Benjamin Muskalla (Tasktop)
- Chris Aniszczyk (Red Hat)
- Christian Halstrick (SAP)
- Dariusz Luksza (Independent)
- Gunnar Wagenknecht (Ageto)
- Jens Baumgart (SAP)
- Mathias Kinzler (SAP)
- Matthias Sohn (SAP)
- Mik Kersten (Tasktop)
- Mykola Nikishov (Independent)
- Remy Suen (IBM)
- Robin Rosenberg (Dewire)
- Shawn Pearce (Google)
- Stefan Lay (SAP)

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

Git conflict 해법

merge tool

HEAD option

TEAM > Add

TEAM > Commit

git pull? git fetch?

git pull == git fetch; git merge;

Jenkins & Git

Jenkins - old Hudson

업데이트 설치
가능 설치됨 고급

사용가능	이름 ↓	버전	Previously installed version	Pinned
☒	Static Analysis Utilities This plug-in provides utilities for the static code analysis plug-ins.	1.19	Downgrade to 1.19	
☒	Jenkins Continuous Integration game The continuous integration build game.	1.18	Downgrade to 1.17	
☒	Jenkins CVS Plug-in Integrates Jenkins with CVS version control system.	1.3	Downgrade to 1.2	Unpin 
☒	FindBugs Plug-in This plug-in collects the FindBugs analysis results of the project modules and visualizes the found warnings.	4.23	Downgrade to 4.11	
☒	Jenkins GIT plugin This plugin integrates GIT with Jenkins.	1.1.6		
☒	Github plugin This plugin integrates Github to Jenkins.	0.4		
☒	Maven Integration plugin	1.409		
☒	Hudson Support Subscription Notification Plugin This plugin notifies the support subscription offering.	1.2		
☒	Jenkins SSH Slaves plugin	0.16	Downgrade to 0.15	Unpin 
☒	Jenkins Subversion Plug-in	1.25		

[Jenkins](#) » [github](#) » #1 [프로젝트로 돌아가기](#) [상태](#) [변경사항](#) [콘솔 출력](#) [Edit Build Information](#)

콘솔 출력

```
Started by user kenu
Checkout:workspace / /web/local/java/hudson/.hudson/jobs/github/workspace - hudson.remoting.LocalChannel@773de2bd
Using strategy: Default
Checkout:workspace / /web/local/java/hudson/.hudson/jobs/github/workspace - hudson.remoting.LocalChannel@773de2bd
Cloning the remote Git repository
Cloning repository origin
ERROR: Error cloning remote repo 'origin' : Could not clone git://github.com/kenu/Hello-World.git
ERROR: Cause: Error performing command: git clone -o origin git://github.com/kenu/Hello-World.git
/web/local/java/hudson/.hudson/jobs/github/workspace
Cannot run program "git": java.io.IOException: error=2, No such file or directory
Trying next repository
ERROR: Could not clone repository
FATAL: Could not clone
hudson.plugins.git.GitException: Could not clone
    at hudson.plugins.git.GitSCM$2.invoke(GitSCM.java:880)
    at hudson.plugins.git.GitSCM$2.invoke(GitSCM.java:812)
    at hudson.FilePath.act(FilePath.java:756)
    at hudson.FilePath.act(FilePath.java:738)
    at hudson.plugins.git.GitSCM.checkout(GitSCM.java:812)
    at hudson.model.AbstractProject.checkout(AbstractProject.java:1174)
    at hudson.model.AbstractBuild$AbstractRunner.checkout(AbstractBuild.java:523)
    at hudson.model.AbstractBuild$AbstractRunner.run(AbstractBuild.java:418)
    at hudson.model.Run.run(Run.java:1362)
    at hudson.model.FreeStyleBuild.run(FreeStyleBuild.java:46)
    at hudson.model.ResourceController.execute(ResourceController.java:88)
    at hudson.model.Executor.run(Executor.java:145)
```



Jenkins

Jenkins » [github](#)

 [Back to Dashboard](#)

 [Status](#)

 [Changes](#)

 [Workspace](#)

 [Wipe Out Workspace](#)

 [Build Now](#)

 [Delete Project](#)

 [Configure](#)

 **Build History** [\(trend\)](#)

 #2 [2011. 4. 30 오후 9:12:14](#)

 #1 [2011. 4. 30 오후 8:49:38](#)

 [RSS for all](#)  [RSS for failures](#)



 [.git](#)

 [.project](#) 204  [view](#)

 [README](#) 85  [view](#)

 [\(all files in zip\)](#)

Jenkins

Jenkins » github » #2

 [프로젝트로 돌아가기](#)

 [상태](#)

 [변경사항](#)

 [콘솔 출력](#)

 [Edit Build Information](#)

 [Git Build Data](#)

 [이전 빌드](#)



빌드 #2 (2011. 4. 30 오후 9:12:14)



No changes.



사용자 [kenu.heo](#)에 의해 시작됨



Revision: 4678e8f2a77e0d567c4cf4cce8d712522f0b6bc9

- origin/master

Jenkins » github » #2

[프로젝트로 돌아가기](#)

[상태](#)

[변경사항](#)

[콘솔 출력](#)

[Edit Build Information](#)

[Git Build Data](#)

[이전 빌드](#)

콘솔 출력

```
Started by user kenu
Checkout:workspace / /web/local/java/hudson/.hudson/jobs/github/workspace - hudson.remoting.LocalChannel@773de2bd
Using strategy: Default
Checkout:workspace / /web/local/java/hudson/.hudson/jobs/github/workspace - hudson.remoting.LocalChannel@773de2bd
Cloning the remote Git repository
Cloning repository origin
Fetching upstream changes from git://github.com/kenu/Hello-World.git
Seen branch in repository origin/master
Commencing build of Revision 4678e8f2a77e0d567c4cf4cce8d712522f0b6bc9 (origin/master)
Checking out Revision 4678e8f2a77e0d567c4cf4cce8d712522f0b6bc9 (origin/master)
No change to record in branch origin/master
Finished: SUCCESS
```



summary

- 소스 저장소의 진화
- github의 프로젝트 호스팅
- 브라우저에서 가능한 코딩
- 도구 Egit 이전에 개념부터
- 개발자 트위터 github.com

References

<http://github.com/>

<http://help.github.com/>

<http://www.eclipse.org/egit>

Git, 분산버전관리시스템, 트라비스 스위스굿, 인사이트