



EGit and JGit 1.3 Release Review

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About



EGit is an Eclipse Team provider for Git. 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 for the JGit Java implementation of Git.

JGit is an EDL (BSD) licensed, lightweight, pure Java library implementing Git.

Introduction



EGit and JGit are Technology sub projects.

- <http://eclipse.org/egit>
- <http://eclipse.org/jgit>

This release is the 10th release for both projects at Eclipse.org, and the goal is to build an Eclipse community around Git.

Main use cases can now be done using EGit without using native Git.

Committer Diversity



There are many individuals and companies involved with EGit (16 committers) and JGit (10 committers)

- Ageto
- Dewire
- GitHub
- Google
- IBM
- Twitter
- SAP
- Tasktop

JGit Features



- Git Porcelain API
 - **New Commands**
 - StashListCommand to list stashed changes
 - SubmoduleAddCommand, SubmoduleInitCommand, SubmoduleStatusCommand, SubmoduleSyncCommand, SubmoduleUpdateCommand to enable working with submodules
 - **Updated Commands**
 - CloneCommand can now clone submodules
 - DiffCommand new options: custom source and destination prefix, number of context lines, progress monitor
 - LogCommand new options: max. number of commits to display, commits to skip before output starts
- Complete list of improvements in [New and Noteworthy](#)
- Many bug fixes

EGit Features



- **Branch status decoration** shows number of commits local branch is ahead or behind remote tracking branch
- **Re-designed Import/Clone Wizard** provides extension point to integrate with Repository providers (URI, GitHub, Gerrit)
- **Submodule support** to clone and display submodules
- **Branch project tracking** keep track of which projects were opened on which branch
- Find complete list of improvements in [New and Noteworthy](#)
- Many bug fixes

GitHub Connector Features



- GitHub Java API now supports the [v3 events API](#)
- [Apache HttpComponents](#) is no longer a dependency of the GitHub Java API
- GitHub is now an option in the EGit clone & import wizard

Non Code Aspects



User Guide and extensive Contributor Guide

- http://wiki.eclipse.org/EGit/User_Guide
- http://wiki.eclipse.org/EGit/GitHub/User_Guide
- http://wiki.eclipse.org/JGit/User_Guide
- http://wiki.eclipse.org/EGit/Contributor_Guide
- <http://wiki.eclipse.org/EGit/GitHub/ContributorGuide>

Lively discussion on mailing lists and EGit forum show a growing community:

- <http://dev.eclipse.org/mhonarc/lists/jgit-dev/maillist.html>
- <http://dev.eclipse.org/mhonarc/lists/egit-dev/maillist.html>
- http://www.eclipse.org/forums/index.php?t=thread&frm_id=48

Bugzilla (as of 2011-2-07)



- JGit

- 73 bugs open, 41 enhancements
- 7 bugs (4 enhancements) fixed since last release

- EGit

- 534 bugs open, 212 enhancements
- 27 bugs (4 enhancements) fixed since last release

Features EGit 1.3

supported

partial

missing

irrelevant

add	format-patch	shortlog	relink	rev-parse
am	gc	show	remote	show-branch
archive	grep	stash	repack	verify-tag
bisect	init	status	replace	whatchanged
branch	log	submodule	annotate	tree compare
bundle	merge	tag	blame	.gitignore
checkout	mv	config	cherry	daemon
cherry-pick	notes	fast-export	count-objects	visual merge tool
clean	pull	fast-import	difftool	HTTP support
clone	push	filter-branch	fsck	Mylyn integration
commit	rebase	mergetool	get-tar-commit-id	Staging view
describe	reset	pack-refs	help	Synchronize view
diff	revert	prune	merge-tree	History view
fetch	rm	reflog	rerere	Repositories view

Committers - JGit



- Chris Aniszczyk (Twitter)
- Christian Halstrick (SAP)
- Gunnar Wagenknecht (Ageto)
- Kewin Sawicki (GitHub)
- Mathias Kinzler (SAP)
- Matthias Sohn (SAP)
- Robin Rosenberg (Dewire)
- Sasa Zivkov (SAP)
- Shawn Pearce (Google)
- Stefan Lay (SAP)

Committers - EGit



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

Community



Significant new code contributions from the community in 1.3

Gerrit Code Review: <http://egit.eclipse.org>

- JGit

- no new CQs in this release

- EGit

- no new CQs in this release

IP Logs



- JGit

- https://bugs.eclipse.org/bugs/show_bug.cgi?id=370263

- EGit

- https://bugs.eclipse.org/bugs/show_bug.cgi?id=370261

Schedule



- 2.0 - June 2012 (Juno)
 - garbage collector
 - submodule support
 - stash support
 - cleanup exception handling in JGit
 - include in all relevant EPP packages for Juno
 - ship with SDK by default

Project Plan



Available at

- <http://eclipse.org/projects/project-plan.php?projectid=technology.egit>
- <http://eclipse.org/projects/project-plan.php?projectid=technology.jgit>

Themes

- Usability
- Enable use without command-line git
- Documentation Improvements
- Building a Community