EGit and JGit 2.2
Release Review

Chris Aniszczyk (zx@twitter.com)
Shawn Pearce (sop@google.com)
Matthias Sohn (matthias.sohn@sap.com)

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 13th 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 (19 committers) and JGit (12 committers)

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

JGit Features

- JGit Porcelain API
  - new GarbageCollectCommand
  - RmCommand supports --cached
  - PullCommand supports --rebase and --no-rebase
  - Status and CleanCommand support cleaning directories
  - CheckoutCommand supports checkout 'ours' and 'theirs'
  - MergeCommand supports --no-ff
  - RebaseCommand supports interactive 'edit' and 'reword' command
- JGit command line
  - new **archive** command (zip and tar)
  - new **reflog** and **status** command
  - merge supports --squash and --no-ff
- Many bug fixes

Complete list of improvements in [New and Noteworthy](#)

EGit Features

- One-click commit + push in commit dialog and staging view
- Allow 'Push to Gerrit' to push to refs/drafts
- Enable three-way mode of the compare editor
- Propagate project team decoration up to working set
- 'Show In' support in Staging View and Commit Viewer
- Staging View
  - Staging via drag and drop from package explorer to staging view
  - Enable delete of files with delete key
  - Add ignore action for untracked files

Performance improvements
- IndexDiffCache refreshes incrementally speeding up staging view and decorators

- Many bug fixes
- minimum supported Eclipse platform version for EGit 2.2 is 3.7.2

Find complete list of improvements in <u>New and Noteworthy</u>

GitHub Connector Features

- Add service support for Markdown API
- Add service support for commit status API
- Support requesting all commit comments
- Show info message that anonymous cannot submit tasks

- Some bug fixes

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 2011-12-09)

- JGit
  - 97 bugs open, 50 enhancements
  - 10 bugs & 12 enhancements fixed since last release

- EGit
  - 691 bugs open, 257 enhancements
  - 76 bugs & 21 enhancements fixed since last release

Features EGit 2.2

Git Commands					EGit UI & Team API Support
add	format-patch	shortlog	relink	rev-parse	History View
am	gc	show	remote	show-branch	Repositories View
archive	grep	stash	repack	verify-tag	Staging View
bisect	init	status	replace	whatchanged	Compare Editor (3 way)
branch	log	submodule	annotate	.gitignore	Merge Editor (2 way)
bundle	merge	tag	blame	daemon	Apply Patch
checkout	mv	config	cherry		Create Patch
cherry-pick	notes	fast-export	count-objects		Mylyn Integration
clean	pull	fast-import	difftool		Synchronize View
clone	push	filter-branch	fsck		Gerrit Integration
commit	rebase	mergetool	get-tar-commit-id		
describe	reset	pack-refs	help		
diff	revert	prune	merge-tree		
fetch	rm	reflog	rerere		

supported | partial | missing | irrelevant

Committers - JGit

- Chris Aniszczyk (Twitter)
- Christian Halstrick (SAP)
- *Colby Ranger (Google) - **New***
- *David Borowitz (Google) **- New***
- Gunnar Wagenknecht (Ageto)
- Kevin 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)
- Dani Megert (IBM)
- Dariusz Luksza (Independent)
- Gunnar Wagenknecht (Ageto)
- Jens Baumgart (SAP)
- Kevin Sawicki (GitHub)
- Mathias Kinzler (SAP)
- Matthias Sohn (SAP)
- Mik Kersten (Tasktop)
- Mykola Nikishov (Independent)
- Remy Suen (IBM)
- Robin Rosenberg (Dewire)
- Robin Stocker (Independent)
- Shawn Pearce (Google)
- Stefan Lay (SAP)
- Tomasz Zarna (Tasktop)

Community

Significant new code contributions from the community in 2.2

Gerrit Code Review: http://git.eclipse.org/r/

- JGit
  - CQ 6908, Marc Strapetz (Syntevo): RevWalk support for shallow clones
  - CQ 6769, Francois Rey and Robin Rosenberg (Dewire): Added new Status CLI command 'jgit status'
- EGit
  - no new CQs this release

IP Logs

- JGit
  - https://bugs.eclipse.org/bugs/show_bug.cgi?id=396211
- EGit
  - https://bugs.eclipse.org/bugs/show_bug.cgi?id=396212

Schedule

- 2.3 - February 2013 (Juno SR2)
- 2.4 or 3.0 - June 2013 (Kepler)

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