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/egit)
- [http://eclipse.org/jgit](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
  o new GarbageCollectCommand
  o RmCommand supports --cached
  o PullCommand supports --rebase and --no-rebase
  o Status and CleanCommand support cleaning directories
  o CheckoutCommand supports checkout 'ours' and 'theirs'
  o MergeCommand supports --no-ff
  o RebaseCommand supports interactive 'edit' and 'reword' command

• JGit command line
  o new `archive` command (zip and tar)
  o new `reflog` and `status` command
  o 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 New and Noteworthy
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

Lively discussion on mailing lists and EGit forum show a growing community:
Bugzilla (as of 2011-12-09)

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

• EGit
  o 691 bugs open, 257 enhancements
  o 76 bugs & 21 enhancements fixed since last release
## Features EGit 2.2

<table>
<thead>
<tr>
<th>Git Commands</th>
<th>EGit UI &amp; Team API Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>add, format-patch, shortlog</td>
<td>History View</td>
</tr>
<tr>
<td>remote, show-branch</td>
<td>Repositories View</td>
</tr>
<tr>
<td>grep, stash, repack, verify-tag</td>
<td>Staging View</td>
</tr>
<tr>
<td>init, status, replace, whatchanged</td>
<td>Compare Editor (3 way)</td>
</tr>
<tr>
<td>log, submodule, annotate</td>
<td>Merge Editor (2 way)</td>
</tr>
<tr>
<td>tag, blame, daemon</td>
<td>Apply Patch</td>
</tr>
<tr>
<td>mv, config</td>
<td>Create Patch</td>
</tr>
<tr>
<td>fast-export, count-objects</td>
<td>Mylyn Integration</td>
</tr>
<tr>
<td>fast-import, difftool</td>
<td>Synchronize View</td>
</tr>
<tr>
<td>filter-branch, fsck</td>
<td>Gerrit Integration</td>
</tr>
<tr>
<td>rebase, mergetool</td>
<td></td>
</tr>
<tr>
<td>reset, pack-refs</td>
<td></td>
</tr>
<tr>
<td>prune, merge-tree</td>
<td></td>
</tr>
<tr>
<td>rm, reflog</td>
<td></td>
</tr>
</tbody>
</table>

**EGit UI & Team API Support**

- **supported**
- **partial**
- **missing**
- **irrelevant**

---

EGit / JGit Release Review | © 2012 by Chris Aniszczyk, Shawn Pearce and Matthias Sohn, made available under the EPL v1.0
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


- 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


Themes

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