

# Why you should use Bazaar for maintaining your OSS project



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# DVCS: Concepts

- No central instance
- Every branch a full copy (incl. History)
- Disconnected operation
- Easy to create new branches
- Merging of revisions from other repos
- Multi-Protocol support (http, SSH, SMTP, local filesystem)

# DVCS: Benefits

- Empowering developers: local commits
- Encourages experimenting
- Easy collaboration: sharing and merging of patches
- Patches don't bit-rot

## DVCS: Benefits (2)

- Parallel development of new features
- Maintaining / tracking local modifications
- Faster: local operations vs. Network
- Every branch is a full backup

# Bazaar: Features



- <http://bazaar-vcs.org/>
- Multi-platform (Python)
- Ease of use:  
5 commands to get started
- Command Aliases  
(builtin & user-defined)
- Well-documented
- Commandline help

# Bazaar: Features (2)

- Centralized and decentralized workflows
- Shared repositories to save space
- No clutter: one single .bZR directory
- Various transport protocols (ssh, http, sftp, ftp, smtp)
- Extensive test suite included

# Bazaar: Features (3)

- Smart merging
- Renamed files and directories retain history
- Supports other VCSs (svn, hg, git)
- Hooks and Scripts
- Plugins (e.g. GUI extensions)
- Unicode file names
- Many 3<sup>rd</sup>-Party tools

# Launchpad



- <http://launchpad.net/>
- Project / code hosting
- Mailing lists / Answers (FAQs)
- Bug tracking / Blueprints
- Translations
- Tight integration with Bazaar

# Screenshot: bzd visualize

mysql-5.1 - revision history

File Edit View Go Revision Branch Help

Revision No	Summary	Committer	Date
2670.1.3	Merge from mysql-5.1.27 release tree.	Davi Arnaut	2008-07-22 19:41
2655.3.8	Bug#33812: mysql client incorrectly parsing DELIMITER	Davi Arnaut	2008-07-17 20:20
2655.3.7	Set version number to 5.1.27	mysqldev	2008-07-14 16:46
2670.1.2	merge	Sergei Gol...	2008-07-22 16:42
2646.18.7	auto merge	Kristofer P...	2008-07-22 13:33
1810.3751.3	merge 5.0->5.0-bugteam	Kristofer P...	2008-07-22 12:55
2646.18.6	Disabled two test cases in 5.1 because of random failures.	Kristofer P...	2008-07-22 13:04
2646.18.5	merge 5.1->5.1-bugteam	Kristofer P...	2008-07-22 12:56
2646.18.4		Kristofer P...	2008-07-22 12:41
1810.3751.2	Auto merge	Kristofer P...	2008-07-21 12:24
2646.18.3	auto-merge	Tatiana A. ...	2008-07-22 08:54
2646.25.4	BUG#38269: pushbuild gives valgrind error in ha_statistic...	Sven Sand...	2008-07-21 21:05
2646.25.3	Corrected merge mistake.	Kristofer P...	2008-07-21 16:41
2646.25.2	Auto merge	Kristofer P...	2008-07-21 14:00
2646.25.1	Manual merge	Kristofer P...	2008-07-21 11:18
1810.3751.1	Bug#37027 expire_logs_days and missing binlogs cause ...	Kristofer P...	2008-07-24 14:28
2646.18.2	auto-merge + post-merge fixies	Tatiana A. ...	2008-07-21 11:20

General Relations Per-file Bugs

**Revision Id:** davi.arnaut@sun.com-20080717182001-459akat8qx1e3nfx

**Committer:** Davi Arnaut <Davi.Arnaut@Sun.COM>

**Branch nick:** mysql-5.1.27-release

**Timestamp:** Thu 2008-07-17 15:20:01 -0300

**Bug#33812: mysql client incorrectly parsing DELIMITER**

Revert fix for this bug as it introduced a regression reported in Bug#38158.

# Screenshot: bzd gannotate

sql/mysql.cc (current) - gannotate

Back Forward

	Committer	Revno	
1767	monty@hundin.mysql.fi	1346.7.21	extern "C" sig_handler_end_thread_signal(int sig __attribute__((unused)))
1768	bk@work.mysql.com	2	{
1769			THD *thd=current_thd;
1770			DEBUG_ENTER("end_thread_signal");
1771	monty@hundin.mysql.fi	1174.1.8	if (thd && ! thd->bootstrap)
1772	monty@narttu.mysql.fi	1346.226.19	{
1773			statistic_increment(killed_threads, &LOCK_status);
1774	monty@mysql.com/narttu.y	2409.1.43	thread_scheduler.end_thread(thd,0); /* purecov: inspected */
1775	monty@narttu.mysql.fi	1346.226.19	}
1776	bk@work.mysql.com	2	DEBUG_VOID_RETURN; /* purecov: deadcode */
1777			}
1778			
1779			
1780	monty@mysql.com/narttu.y	2409.1.43	/*

General Relations Signature Per-file Bugs

Revision Id: sp1r-monty@mysql.com/narttu.mysql.fi-20070223111355-52518

Committer: monty@mysql.com/narttu.mysql.fi

Branch nick:

Timestamp: Fri 2007-02-23 13:13:55 +0200

Fixed compiler warnings  
Fixed compile-pentium64 scripts  
Fixed wrong estimate of update\_with\_key\_prefix in sql-bench  
Merge bk-internal.mysql.com:/home/bk/mysql-5.1 into mysql.com:/home/my/mysql-5.1  
Fixed unsafe define of uint4korr()  
Fixed that --extern works with mysql-test-run.pl  
Small trivial cleanups  
This also fixes a bug in counting number of rows that are updated when we have many simultaneous queries  
Move all connection handling and command execution main loop from sql\_parse.cc to sql\_connection.cc  
Split handle\_one\_connection() into reusable sub functions.  
Split create\_new\_thread() into reusable sub functions.  
Added thread\_scheduler; Preliminary interface code for future thread\_handling code.

Use 'my\_thread\_id' for internal thread id's  
Make thr\_alarm\_kill() to depend on thread\_id instead of thread  
Make thr\_abort\_locks\_for\_thread() depend on thread\_id instead of thread  
In store\_globals(), set my\_thread\_var->id to be thd->thread\_id.  
Use my\_thread\_var->id as basis for my\_thread\_name()  
The above changes makes the connection we have between THD and threads more soft.

Added a lot of DEBUG\_PRINT() and DEBUG\_ASSERT() functions  
Fixed compiler warnings  
Fixed core dumps when running with debug

# Related tools / Links

- Project Home Page: <http://bazaar-vcs.org/>
- LaunchPad: <https://launchpad.net>
- #bzd on [irc.freenode.net](http://irc.freenode.net)
- Planet Bazaar: <http://planet.bazaar-vcs.org/>
- BundleBuggy:  
<http://code.aaronbentley.com/bundlebuggy/>
- PQM (Patch Queue Management):  
<https://launchpad.net/pqm>

Thank you!  
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