Bazaar-GTK

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Introduction

• Who we are
  – Szilveszter Farkas
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Bazaar – History

- Distributed VCS
- Started as “Bazaar-NG” in 2004
- bzr: From-scratch reimplementation of “baz”
  - Derived from arch
- Developers from community
  - Some core developers funded by Canonical
- Written in Python (>= 2.4)
- Test-driven development
Bazaar – Family history

Arch

Bazaar “baz”

ArchX

Bazaar-NG
Distributed Version Control

- Trivial to start – no need for a server
- No second-class citizens without commit access
- Offline access
- Cheap branching
- Smart merging
Bazaar – Goals

• Strong focus on correctness
• Strong focus on usability
• Portable
  – Has run fine on Windows and Mac since the early days
• Recently strong focus on performance
• Extensibility
Bazaar vs Mercurial

Bazaar

• Foreign branch support
• Smarter merging

Mercurial

• Fast
Bazaar vs Git

Bazaar

- Saner UI
- Portable
- History deterministic
- Smarter merging

Git

- Very fast
- Parallel imports supported better
Example workflow

bzr init .
bzr add *.py
bzr commit -m "Add initial files"

bzr co http://example.com/branch
cd branch && bzr up
Plugins

• bzcrtools (Experimental commands)
• bzcrt-gtk (GTK+ interface)
• bzcrt-svn (Subversion integration)
• bzcrt-dbus (DBUS interface)
• bzcrt-email (Sending commit notifications by email)
• ... and a lot more, listed on http://bazaar-vcs.org/PluginRegistry
Bazaar – Notable users

- Ubuntu
- Zope
- java-gnome
- Samba
- Drupal
- ... and lots of smaller projects
Integration

- visual studio integration
- eclipse
- tortoisebzr
- nautilus
GTK+

- Toolkit used by GNOME
- Cross-platform
- Accessible through a sane interface from Python
bzr-gtk

- Started as a collection of plugins merged together
  - bzrk (``bezerk'')
  - gannotate
  - gcommit
  - nautilus-bzr
  - olive
bzr-gtk – Running it

- Accessible in two ways:
  - Graphical shell (“olive”)
  - From command-line (g*)

- Runs on Windows
bzf-gtk – Authors

- Aaron Bentley
- Adeodato Simó
- Alexander Belchenko
- Dan Loda
- David Allouche
- Erik Bagfors
- Jamie Wilkinson
- Jeff Bailey
- Jelmer Vernooij

- John Arbash Meinel
- Michael Ellerman
- Richard Ferguson
- Robert Collins
- Scott James Remnant
- Stéphane Raimbault
- Szilveszter Farkas
- Vincent Ladeuil
- Wouter van Heyst
bzr-gtk – Goals

- GNOME HIG-compliant
- Usable by beginners and advanced users
  - Command-line may of course still be faster for advanced users...
- Complete
  - No need to use the command-line in order to use Bazaar
- Unique UI
  - Not a simple clone of the command-line interface
Demo?

- bzrk
- gannotate
- nautilus-bzr
- gcommit
Future Goals

• Match functionality provided by command-line interface
  – uncommit
  – merge directives
• nautilus-bzr
• ... what would you like to see?
More information

- http://bazaar-vcs.org/
- http://bazaar-vcs.org/BzrGtk
- Bugs: http://launchpad.net/bzr-gtk