

## Bazaar-GTK



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*LUGRadio Live 2007*  
07-07-07



## 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 ( $\geq 2.4$ )
- 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

- bzrtools (Experimental commands)
- bZR-gtk (GTK+ interface)
- bZR-svn (Subversion integration)
- bZR-dbus (DBUS interface)
- bZR-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
- tortoisebvr
- 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



## bzr-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>



:wq