

Bazaar VCS

Not your daddy's version control system

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What is Bazaar?

- Friendly
- Smart
- Fast
- Efficient
- Lightweight
- Extensible
- Embeddable
- Safe
- Free

Friendly & Smart

- “Version Control for Human Beings”
- No more renaming nightmares

Fast & Efficient

- Operation speeds comparable to Subversion, Git, Mercurial
- Disk space efficiency
 - 22% better than Mercurial
 - 15% better than Git

Lightweight

- No dedicated server needed
- Publish over FTP, SFTP, SSH
- Use locally without a server

Extensible & Embeddable

- Python API with plugin system
- “Pluggable” custom storage format support

Safe & Free

- Sponsored by Canonical
- Large open-source community
- GNU GPL 2.0
- GNU project⁴

Distributed VCS

In A Nutshell

- No central repository
- Each working copy is its own repository
- Operations performed on working copy

“Open System”

- Working copy = branch = fork
- Cross-branch merging by patches
- Selective cross-branch change “pulling”
- Openly accessible

Open System DVCS

- Bazaar
- Darcs
- Git
- Mercurial
- Monotone
- SVK

BZR 101

Create a “Repository”

```
$ cd foo
```

```
$ bzr init
```

```
$ bzr add
```

```
$ bzr commit -m “Initial import”
```

Changing Files

```
$ bzip diff
```

```
$ bzip mv bar baz
```

```
$ bzip rm fubar
```

```
$ bzip commit -m "Description of changes"
```

```
$ bzip log
```

Publishing with FTP

```
$ bzip push --create-prefix ftp://  
username@example.com/public_html/foo
```

Publishing to Launchpad

```
$ bzip push bzip+ssh://  
username@bazaar.launchpad.net/  
~username/+junk/foo
```

Branching Out

```
$ bzr branch http://www.example.com/foo
```

```
$ bzr branch http://bazaar.launchpad.net/  
~john.doe/+junk/foo
```

Updating a Branch

```
$ bzr merge
```

```
$ bzr diff
```

```
$ bzr commit -m "Merge from main branch"
```

```
$ bzr send -o bar.patch
```

Further Reading

- <http://bazaar-vcs.org>
- <http://bazaar-vcs.org/Documentation>
- <http://doc.bazaar-vcs.org/bzr.dev/en/user-guide/index.html>

References

- (2) <http://bazaar-vcs.org>
- (4) <http://bazaar-vcs.org/Benchmarks>
- (4) <http://bazaar-vcs.org/Benchmarks/SpaceEfficiency>
- (7) <https://launchpad.net/bzr/+announcement/276>
- (9) http://en.wikipedia.org/wiki/Revision_control#Distributed_revision_control
- (10) http://en.wikipedia.org/wiki/Revision_control#Open_systems
- (12) Adapted from <http://doc.bazaar-vcs.org/bzr.dev/en/mini-tutorial/index.html>