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# Gitify your life - 14 years later

## web, blog, configs, data, and backups

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## The basics

# What is Git?

- Version control system
- Distributed
  - No need for central repository
  - Allows you to commit while offline
- Stores commits (parent commit reference, commit message, root tree object) and tree objects (blobs and other tree objects)
- Light-weight branches
- pre-/post-action hooks
- Full history in every checkout

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## etkeeper

*etkeeper is a collection of tools to let /etc be stored in a Git,  
Mercurial, Darcs, or Bazaar repository*

*<https://etkeeper.branchable.com>*

Minimal, quick overview

## In a word

- Implemented in POSIX shell
- Auto-commits /etc prior to and after all actions by package manager
- Hooks into apt, yum, pacman-g2, and cron
- Allows manual commits
- Various back-ends
  - Bazaar
  - Darcs
  - Git
  - Mercurial
- Easy way to recover from failures, misconfiguration or to clone machines

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## bup

*Highly efficient file backup system based on the Git packfile format*

<https://bup.github.io>

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## ikiwiki

*ikiwiki is a wiki compiler. It converts wiki pages into HTML pages suitable for publishing on a website*

<https://ikiwiki.info>

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## Hugo

*Currently don't have a personal website, but if I did, it would be  
in Git still*

<https://gohugo.io>

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## git-annex

*manage files with Git, without checking their contents in*

<https://git-annex.branchable.com>

Background

# What is git-annex?

- Based on Git
- Maintains metadata in Git, actual files in the annex
- Still allows you to check files into Git if you want to
- Written with low bandwidth and flaky connections in mind
- Superb data integrity, tracking, verification, and copying
- Supports special remotes such as HTTP, video hosting sites, S3, etc

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## metamonger

*Like metastore, but done right*

<https://github.com/RichiH/metamonger>

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## vcsh

*Version Control System for \$HOME  
(multiple Git repositories in \$HOME)*

*<https://github.com/RichiH/metamonger>*

Technical details

# What is vcsh?

- Implemented in POSIX shell
- Based on Git, but...
  - Git is unable to maintain several working copies in one directory
  - This is a safety feature...
  - ...which sucks if you want to keep your configs in Git
- vcsh uses fake bare Git repositories to work around this limitation
- Think of it as an extension to, or a wrapper around, Git
- Powerful and extensible hook system
- <https://github.com/RichiH/vcsh>

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## **mr (now *myrepos*)**

*a tool to manage all your version control repos*

<https://myrepos.branchable.com>

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Too many repos...?

## Tying it all together

- Run bulk pull, push, and custom commands all, some, or one of your repositories
- Supports Git, vcsh, Bazaar, CVS, Darcs, fossil, git-svn, Mercurial, Subversion, unison, and veracity
- Trivial to extend to support more VCSs
- If you want to try all this, why not `vcsh clone my mr` repository template and run `mr up` to pull my Zsh config via vcsh?

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## Zsh

*Best shell available. Period.*

<https://www.zsh.org>

Why is this in a Git talk?

## Not based on Git, but makes your life easier

- Extremely powerful tab completion for the tools in this talk (and others!)
- Versatile left *and* right prompts
- `vcs_info`
  - Displays information about the current VCS working copy in prompt
  - Lots of customization options
  - Supports Git, vcsh, Bazaar, codeville, CVS, Darcs, fossil, GNU Arch, Mercurial, monotone, Perforce, Subversion, and svk
- Can mimic Bash, Ksh, tcsh, etc.
- Too many other reasons to list (literally...)

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The End!

# Thanks!

Thank you for listening!

Questions? Ask now or catch me after this talk, both is fine.

See slide footer for further contact information.

<https://github.com/richih/talks>

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