

# Gitify your life - 14 years later

web, blog, configs, data, and backups

Richard Hartmann,  
@RichiH@chaos.social

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# 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

## etckeeper

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

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

# 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

## bup

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

*`https://bup.github.io`*

## ikiwiki

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

*`https://ikiwiki.info`*

## Hugo

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

*`https://gohugo.io`*

## git-annex

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

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



# 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

# metamonger

*Like metastore, but done right*

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

## vcsh

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

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

# 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>

## mr (now *myrepos*)

*a tool to manage all your version control repos*

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

# 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`?

# 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...)



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>

@RichiH@chaos.social