Git Annex

- What is Git Annex ?

  git-annex is not a backup system. It may be a useful
  component of an archival system, or a way to deliver
  files to a backup system. For a backup system that uses
  git and that git-annex supports storing data in, see
  bup.git-annex is not a filesystem or Dropbox clone.
  However, the git-annex assistant is addressing some of
  the same needs in its own unique ways. (There is also a
  FUSE filesystem built on top of git-annex, called
  ShareBox.)

  git-annex is not unison, but if you're finding unison's
  checksumming too slow, or its strict mirroring of
  everything to both places too limiting, then git-annex
  could be a useful alternative.

  git-annex is also not a folder mirroring system like
  syncthing (although syncthing could be supported as a
  special remote) or gut, but it can be used to sync files
  such a way, with certain limitations (for example, it
  doesn't like syncing .git directories so much).

  git-annex is also not a distributed file system like
  Bittorrent or ipfs but both are supported as special
  remotes with more work in making git-annex more
  distributed underway.

  git-annex is more than just a workaround for git
  scalability limitations that might eventually be fixed
  by efforts like git-bigfiles. In particular, git-annex's
  location tracking allows having many repositories with a
  partial set of files, that are copied around as desired.

  git-annex is not some flaky script that was quickly
  thrown together. I wrote it in Haskell because I wanted

it to be solid and to compile down to a binary. And it has a fairly extensive test suite. (Don't be fooled by "make test" only showing a few dozen test cases; each test involves checking dozens to hundreds of assertions.)

git-annex is not git-media, although they both approach the same problem from a similar direction. I only learned of git-media after writing git-annex, but I probably would have still written git-annex instead of using it. git-media uses git smudge filters (recently supported in git-annex as well; see unlocked files) and may be a tighter fit for certain situations. It lacks git-annex's support for widely distributed storage, using only a single backend data store. It also does not support partial checkouts of file contents, like git-annex does.

git-annex is similarly not git-fat, which also uses git smudge filters, and also lacks git-annex's widely distributed storage and partial checkouts.

Similarly, git-annex is not git-lfs, which also uses git smudge filters, and appears to lack git-annex's widely distributed storage and partial checkouts.

git-annex is also not boar, although it shares many of its goals and characteristics. Boar implements its own version control system, rather than simply embracing and extending git. And while boar supports distributed clones of a repository, it does not support keeping different files in different clones of the same repository, which git-annex does, and is an important feature for large-scale archiving.

git-annex is not the Mercurial largefiles extension. Although mercurial and git have some of the same problems around large files, and both try to solve them

in similar ways (standin files using mostly hashes of
the real content).

* To install on debian :
[crayon-6627b5d3275e7890082344/]
Repository Address :
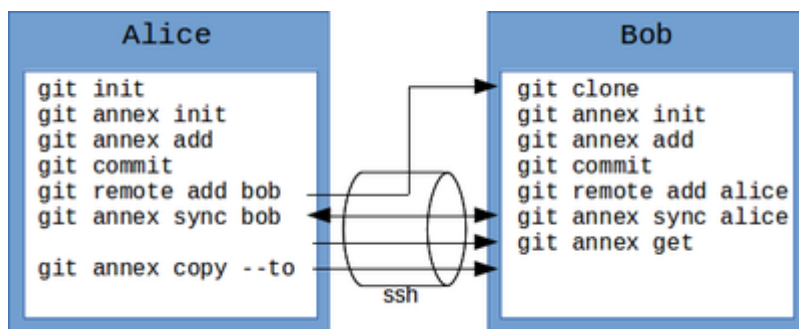https://downloads.kitenet.net/git-annex/linux/current/
History:
http://source.git-annex.branchable.com/?p=source.git;a=history
;f=doc/install/Debian.mdwn;hb=HEAD

Git Hosting Sites :
[crayon-6627b5d3275ed937327498/]

Alice und Bob synchronisieren über SSH ihre Repositories.

Command Line :
[crayon-6627b5d3275f0958849909/]

Example Git Remote :
[crayon-6627b5d3275f4576590152/]

References:
http://git-annex.branchable.com/

https://downloads.kitenet.net/git-annex/linux/current/

https://www.thomas-krenn.com/de/wiki/Git-annex