

tag2upload

A project to:

Improve traceability, reproducibility and fidelity of Debian source code

Provide proper, usable source code in git form to downstreams and users

Make uploading massively more convenient

When maintainers opt in

but without changes to their existing git workflows

Without insisting that anyone has to

**stop using .dscs if they like that kind of thing
or do anything else differently**

Project by Ian Jackson and Sean Whitton

Talk at Cambridge Minidebconf 2023

`ijackson@chiark.greenend.org.uk`

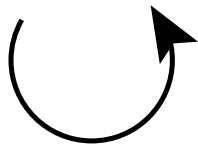
`irc.oftc.net Diziet`

`spwhitton@spwhitton.name`

Debian source code management and dataflow, 1993

AD-HOC | **FULLY STANDARDISED**

*maintainer's
working tree*



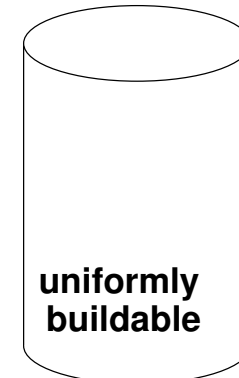
emacs/vi
cp -r
diff/patch
rsync

dpkg-buildpackage
signchanges

apt-get source

**PRINCIPAL SOURCE
CODE LOCATION**

ftp.d.o



dput
.dsc
.changes

apt → *User
(or
down
stream)*

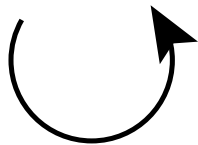
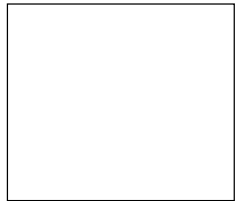


AD-HOC | FULLY STANDARDISED

L I E S

Source code is in git now!

maintainer's working tree



emacs/vi
cp -r
diff/patch
rsync

Terribly clumsy

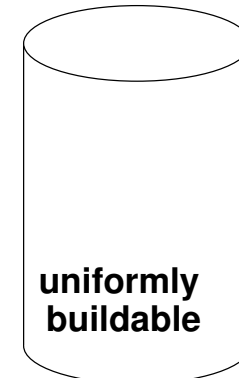
dpkg-buildpackage
signchanges

apt-get source

NO LONGER TRUE!

PRINCIPAL SOURCE CODE LOCATION

ftp.d.o

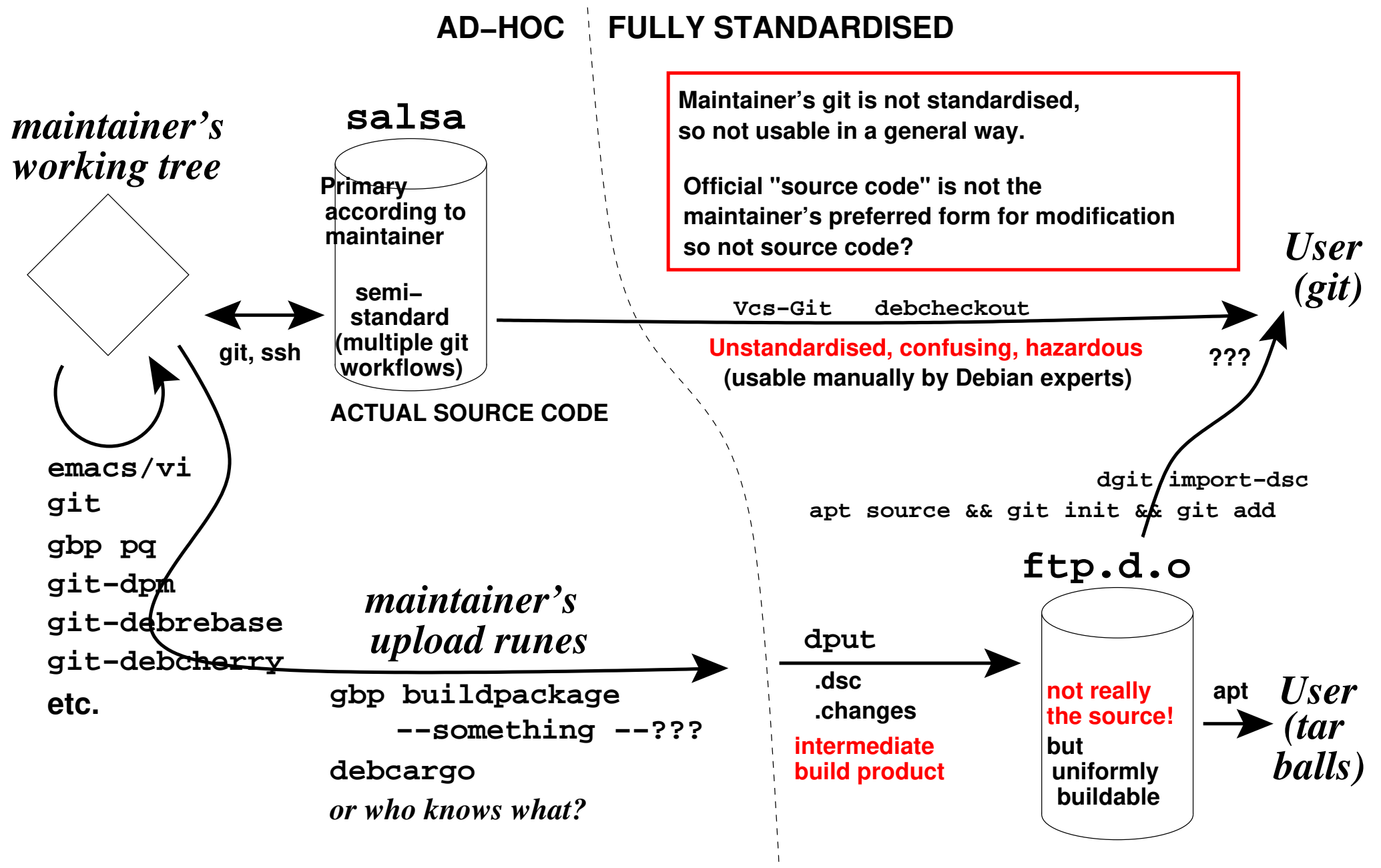


dput
.dsc
.changes

apt → *User (or downstream)*

Very few Debian contributors are still working like this

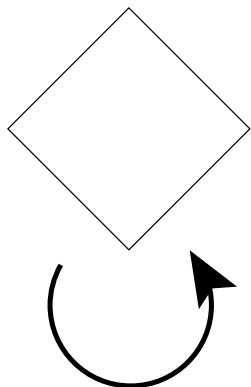
Debian source code management and dataflow – reality in 2023 for most packages



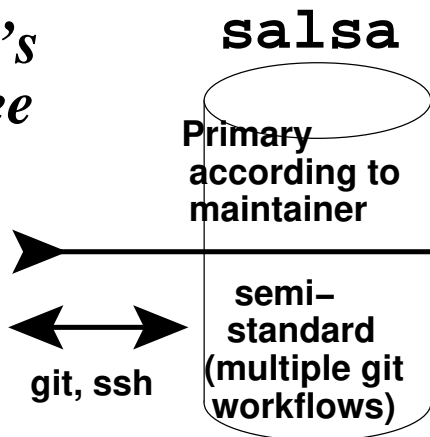
Debian source code management and dataflow, with tag2upload (2024?)

AD-HOC **FULLY STANDARDISED**

*maintainer's
working tree*

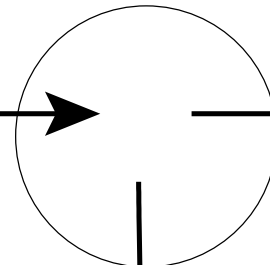


emacs/vi
git
gbp pq
git-dpm
git-debbase
git-debcherry
etc.



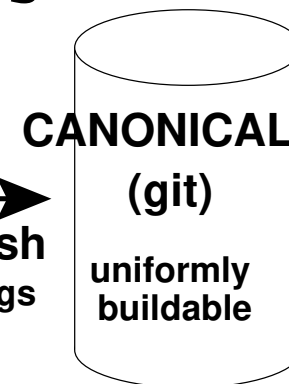
signed
git tag
git objects
(webhook)

*tag2upload
service*



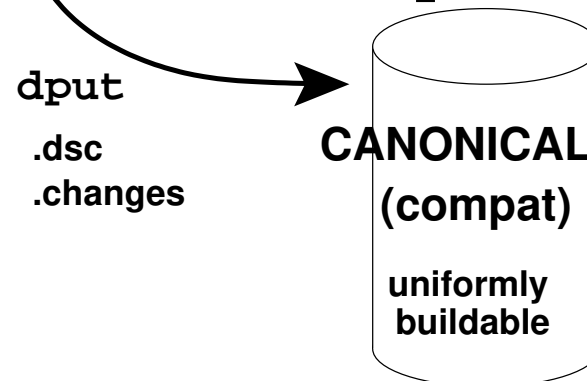
outputs
REPRODUCIBLE
RELIABLE
TRACEABLE back to maintainer's git

git.d.d.o



*User
(git)*
git https

ftp.d.o



*User
(tar
balls)*
apt

Note: tarballs+patches .dsc upload process retained
tag2upload is opt-in (but super convenient)

tag2upload current status (November 2023)

design

canonical git source code server

tag creation utility `git-debpush`

robot for automatic .dsc creation

independent security review

approval in principle

privsep improvements (from review)

webhook receiver / job runner

deployment in a test mode

enable as a beta service

user feedback, tidy rough edges

recommend for general use

complete

already exists, in production

implemented, documented, tested

implemented, documented, tested

complete, minor recommendations

pending

we are awaiting the approval

planned, needs discussion with DSA

VM etc. not yet requested from DSA

blocked

blocked

blocked

demo

tag2upload current status (November 2023)

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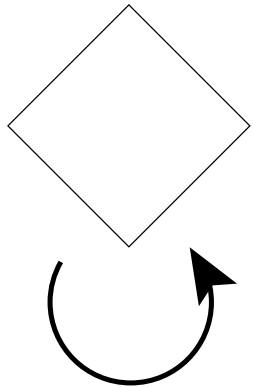
blocked

blocked

Debian source code management and dataflow, with tag2upload (2024?)

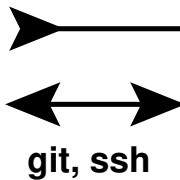
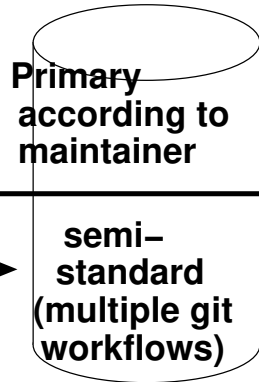
AD-HOC **FULLY STANDARDISED**

maintainer's working tree



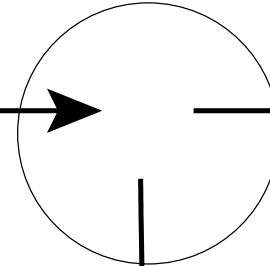
emacs/vi
git
gbp pq
git-dpm
git-debbase
git-debcherry
etc.

salsa



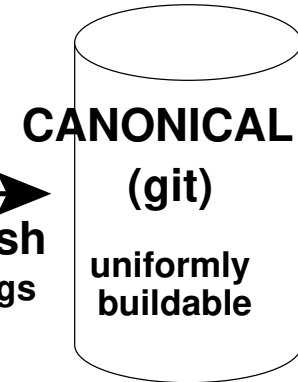
signed
git tag
git objects
(webhook)

tag2upload service



outputs
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RELIABLE
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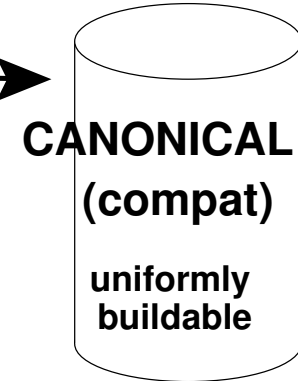
git.d.d.o



git push
signed tags

User (git)
git https

ftp.d.o



dput
.dsc
.changes

apt
User (tar balls)

Note: tarballs+patches .dsc upload process retained
tag2upload is opt-in (but super convenient)