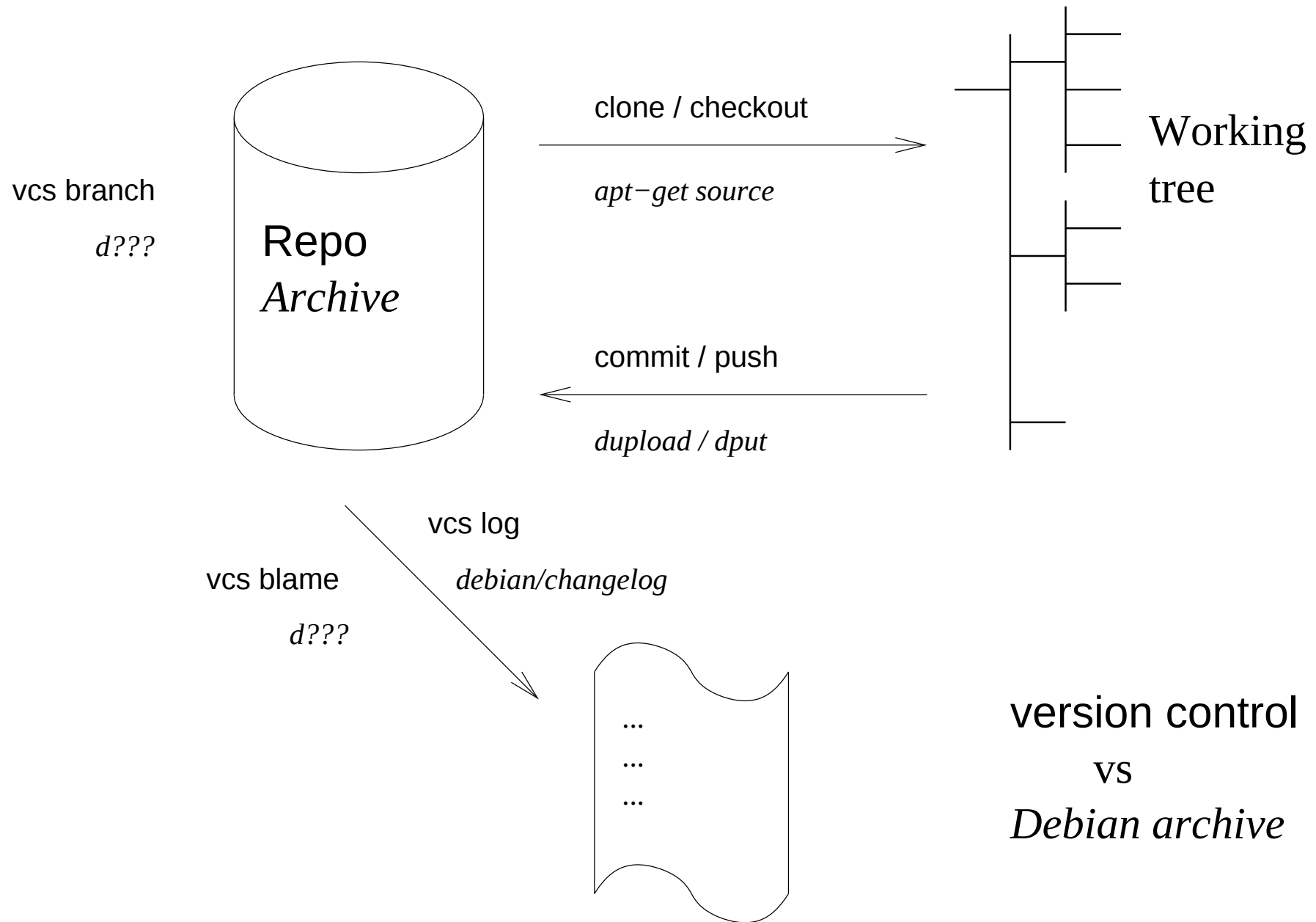


dggit

Debconf 2014, Portland

Ian Jackson

`ijackson@chiark.greenend.org.uk`



NAME

dggit – git integration with the Debian archive

SYNOPSIS

```
dggit [dggit-opts] clone [dggit-opts] package [suite] [./dir|/dir]
dggit [dggit-opts] fetch|pull [dggit-opts] [suite]
dggit [dggit-opts] build|sbuild|build-source [build-opts]
dggit [dggit-opts] push [dggit-opts] [suite]
dggit [dggit-opts] rpush build-host:build-dir [push args...]
dggit [dggit-opts] action ...
```

DESCRIPTION

dggit treats the Debian archive as a version control system, and bidirectionally and git. The git view of the package can contain the usual upstream git hist commits representing uploads done by other developers not using dggit. The canonical location known as **dggit-repos** which lives outside the Debian archiv

The usual workflow is: 1. clone or fetch; 2. make and commit changes in g dggit sbuild or dggit build-source, or generate the source and binary packages do pre-upload tests of the proposed upload; 5. run dggit push.

```
dggit clone package [suite] [./dir|/dir]
    Consults the archive and dggit-repos to construct the git view of histo
    default) in a new directory (named ./package by default); also, dow
    balls.

    The suite's git tip is left on the local branch dggit/suite ready for w
    dggit remote tracking branch. The origin remote will be set up to pc
    tree for the distro to which suite belongs.
```

Demo

```
dg̃it clone dg̃it experimental  
cd dg̃it  
emacs -nw debian/changelog  
debcommit -a  
dg̃it sbuild -c build  
[ pgp thing ]  
dg̃it push  
[ pgp thing ]
```

```
ian@zealot:~/junk/e$ dgit clone dgit sid dgit.git
fetching existing git history
```

```
...
From git+ssh://git.debian.org/git/dgit-repos/repos/dgit
```

```
...
downloading http://ftp.debian.org/debian//pool/main/d/dgit/dgit_0.22.dsc...
```

```
...
dgit ok: ready for work in dgit.git
```

```
ian@zealot:~/junk/e$ cd dgit.git
```

```
ian@zealot:~/junk/e/dgit.git$ git checkout b2e1996507c2a614cdec9ec328a35c5db7456e04
```

```
HEAD is now at b2e1996... Remove leftover debugging print
```

```
ian@zealot:~/junk/e/dgit.git$
```

dgit_0.22.dsc:

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA256

Format: 1.0

Source: dgit

...

Files:

91ddd8468f65e3a4f2af0dea20919af6 169827 dgit_0.22.tar.gz

Dgit: b2e1996507c2a614cdec9ec328a35c5db7456e04

-----BEGIN PGP SIGNATURE-----

...

```
ian@zealot:~/junk/e$ dget -u http://ftp.debian.org/debian//pool/main/d/dgit/dgit_0.22.dsc
```

```
dget: retrieving http://ftp.debian.org/debian//pool/main/d/dgit/dgit_0.22.dsc
```

```
...
dpkg-source: info: extracting dgit in dgit-0.22
```

```
dpkg-source: info: unpacking dgit_0.22.tar.gz
```

```
ian@zealot:~/junk/e$ diff --exclude=.git -ruN dgit-0.22 dgit.git
```

```
ian@zealot:~/junk/e$ echo $?
```

```
0
```

```

$ dgit clone libavg
canonical suite name for unstable is sid
fetching existing git history
remote: Counting objects: 2469, done.
remote: Compressing objects: 100% (1427/1427), done.
remote: Total 2469 (delta 1012), reused 2468 (delta 1012)
Receiving objects: 100% (2469/2469), 15.93 MiB | 171 KiB/s, done.
Resolving deltas: 100% (1012/1012), done.
From git+ssh://git.debian.org/git/dgit-repos/repos/libavg
* [new ref]      refs/dgit/sid -> dgit/dgit/sid
* [new tag]      debian/1.8.0-1 -> debian/1.8.0-1
downloading http://ftp.debian.org/debian/pool/main/liba/libavg/libavg_1.8.1-1.d
sc...
last upload to archive has NO git hash
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 10.5M  100 10.5M    0     0   294k      0  0:00:36  0:00:36 --:--:--  661k
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 8612  100 8612    0     0  14125      0  --:--:--  --:--:--  --:--:--  37938
dpkg-source: info: extracting libavg in libavg-1.8.1
dpkg-source: info: unpacking libavg_1.8.1.orig.tar.gz
dpkg-source: info: unpacking libavg_1.8.1-1.debian.tar.xz
dpkg-source: info: applying foreign.patch
synthesised git commit from .dsc 1.8.1-1
HEAD is now at d20f4a6 New upstream release. Closes: #721047
HEAD is now at 22c8cf0 Record libavg (1.8.1-1) in archive suite sid
dgit ok: ready for work in libavg
$ 

```

File Edit View Help

 dgit/sid — remotes/dgit/dgit/sid Record libavg (1.8.1-1) in archi	Dimitri John Ledkov <xnox@ubuntu	2014-06-24 20:05:13
 libavg (1.8.1-1) unstable; urgency=medium	Dimitri John Ledkov <xnox@ubuntu	2014-06-24 20:05:13
 debian/1.8.0-1 New upstream release. Closes: #721047	Dimitri John Ledkov <dimitri.ledkov	2014-02-20 16:10:52
 libavg (1.7.1-4) unstable; urgency=low	Dmitrijs Ledkovs <xnox@debian.org	2013-09-24 09:14:03

debian/patches/auto-0.11-1nmu1-85fe079e4cfabd405ca738ff8a89dfad19f17800-1391881523

Description: Automatically generated patch (0.11-1nmu1)

Last (up to) 3 git changes, FYI:

.
commit 85fe079e4cfabd405ca738ff8a89dfad19f17800
Author: Ian Jackson <ijackson@chiark.greenend.org.uk>
Date: Sat Feb 8 17:45:05 2014 +0000

.
debian: finalise changelog for 0.11-1nmu1

.
commit c0818e59eab55ace2b177d0ea88682c81d2830aa
Author: Ian Jackson <ijackson@chiark.greenend.org.uk>
Date: Sat Feb 8 17:22:45 2014 +0000

.
Tests: Sort the keywords in the graph output

.
They come out in hash order which is not necessarily stable.
Fixes FTBFS with perl 5.18 (Debian #711446, CPAN #85950).

.
Signed-off-by: Ian Jackson <ijackson@chiark.greenend.org.uk>

.
commit bcedbb978208ce08d35e8f317fed5b34695ac1ab
Author: Ian Jackson <ijackson@chiark.greenend.org.uk>
Date: Sat Feb 8 17:18:34 2014 +0000

.
Tests: Provide a TestUtils.pl containing broken-out launder() function

.
The code for laundering font sizes was duplicated between the tests.
Instead, break it out into a common function launder() in a new file
t/TestUtils.pl (which exists just for the tests).

.
Signed-off-by: Ian Jackson <ijackson@chiark.greenend.org.uk>

.
squash! Tests: Provide a Test.pm containing

Author: Ian Jackson <ijackson@chiark.greenend.org.uk>

--- libgraph-writer-graphviz-perl-0.11.orig/MANIFEST

+++ libgraph-writer-graphviz-perl-0.11/MANIFEST

@@ -14,3 +14,4 @@ README

;
(

dggit access to Debian for various classes of user

	DD	DM	anonymous
fetch/ clone	✓ ^{†,‡}	Needs projectb data service #727702, #720590, †	Needs projectb data service #727702, #720590 Needs move to new git server #720175, DSA RT#5218
push	✓ ^{†,‡}	Needs move to new git server #720173, DSA RT#5218	Not desirable

Notes

†. User must have alioth account; requirement will be abolished after move to new git server.

‡. | ssh 'iwj@mirror.ftp-master.debian.org' 'export LANG=C; psql -A service=projectb -c '\'

```
SELECT source.version, component.name, files.filename, files.sha256sum
```

```
FROM source
```

```
JOIN src_associations ON source.id = src_associations.source
```

```
JOIN suite ON suite.id = src_associations.suite
```

```
JOIN dsc_files ON dsc_files.source = source.id
```

```
...
```

dggit 0.22 in unstable/testing

<http://manpages.debian.org/man1/dggit>

Ian Jackson

ijackson@chiark.greenend.org.uk

Questions?

<http://www.chiark.greenend.org.uk/~ijackson/2014/debconf-dggit-talk/>

<http://www.chiark.greenend.org.uk/~ijackson/2014/debconf-dggit-talk/talk.txt>

<http://www.chiark.greenend.org.uk/~ijackson/2014/debconf-dggit-talk/slides.pdf>

<git://git.chiark.greenend.org.uk/~ijackson/talk-2014-debconf-dggit.git>