

# A Birds-Eye View of Version Control with

# Pijul

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@hannotify



Yay,  
Git!

SanDisk

Designed in California  
[le.com](http://le.com)

EMTEC

Transcend

8GB



Dang it,  
Git!

[dangitgit.com](http://dangitgit.com)

prehistory

scm classic times

middle ages

the Renaissance

1982

1990

1992

1994

1995

2000

2005

2010

rcs

cvs

perforce

svn

bitkeeper

bazaar  
git

dvcs age

clearcase

accurev

darcs  
hg

embrace branching,  
merging and  
distributed...

pvcs

vss

welcome to hell

scm redone...

plastic

laggards

tfs



# Introducing Pijul

# pi · jul

or *crotophaga sulcirostris*, a bird  
known to do collaborative nest  
building.

# Features

- distributed version control
- simple, because of its basis on a sound theory of patches
- fast, because it aims to fix the Darcs performance issues
- interactive recording

# Quick facts

- written in Rust
- bootstrapped since April 2017
- free code hosting at <https://nest.pijul.com>

# Patch-oriented design

- A patch is an intuitive atomic unit of work.
- It focuses on *changes*, instead of *differences between snapshots* (i.e. Git commits).
- Applying or unapplying a patch *doesn't change* its identity.
- The end result of applying several patches is always the same, regardless of the order in which they

# GIT

one line  
two line  
three line

two line  
one line  
four line

two line  
four line  
four line

two line  
four line  
four line

# Pijul

+ one line  
+ two line  
+ three line

- one line  
+ one line  
- three line  
+ four line

- one line  
+ four line

two line  
four line  
four line

# If commits were bank transactions

	snapshot	patch
<b>initial balance</b>	100	+100
<b>salary</b>	400	+300
<b>heating</b>	0	-400

# Demo

- Up and running
- Recording patches
- Reordering patches

# Pijul's current status

- v1.0-beta  
<https://pijul.org/posts/2022-01-08-beta>

# Now what?

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# When Do I Use Pijul?

- For a hobby project, so you can get the feel of it
- If your team members currently struggle with Git
- If you spend too much time on rebasing, merging and conflict resolution
- If you can self-host or use the Pijul Nest

**Try Pijul for a change!**

[https://pijul.org/manual/working\\_with\\_others.html](https://pijul.org/manual/working_with_others.html)

# Thank you! 😊

[nest.pijul.com/hannotify/a-birds-eye-view-of-version-control-with-](http://nest.pijul.com/hannotify/a-birds-eye-view-of-version-control-with-pijul)

pijul

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[hanno.codes](http://hanno.codes)

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