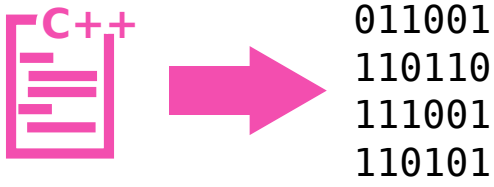
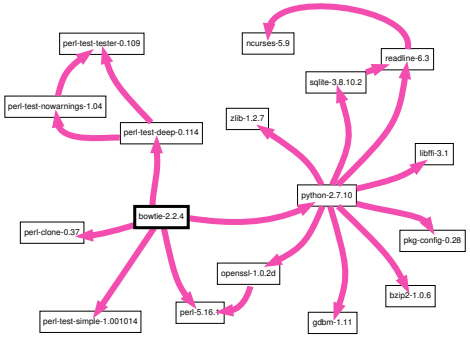
Reproducible user-controlled package management

with GNU Guix

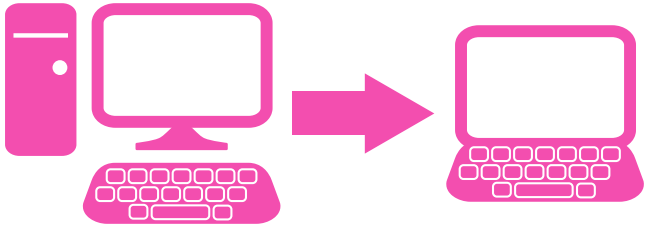
Reproducibility



Reproducible builds



Keep stack constant



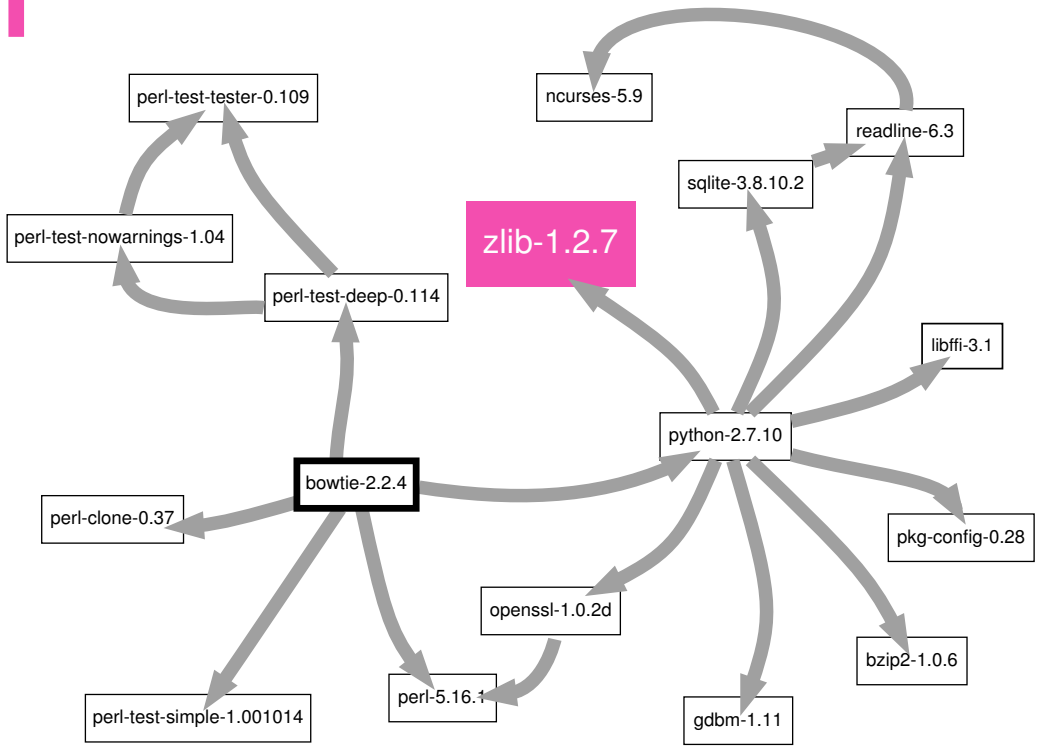
Rebuild environment

Beyond reproducibility

Cheap exploration

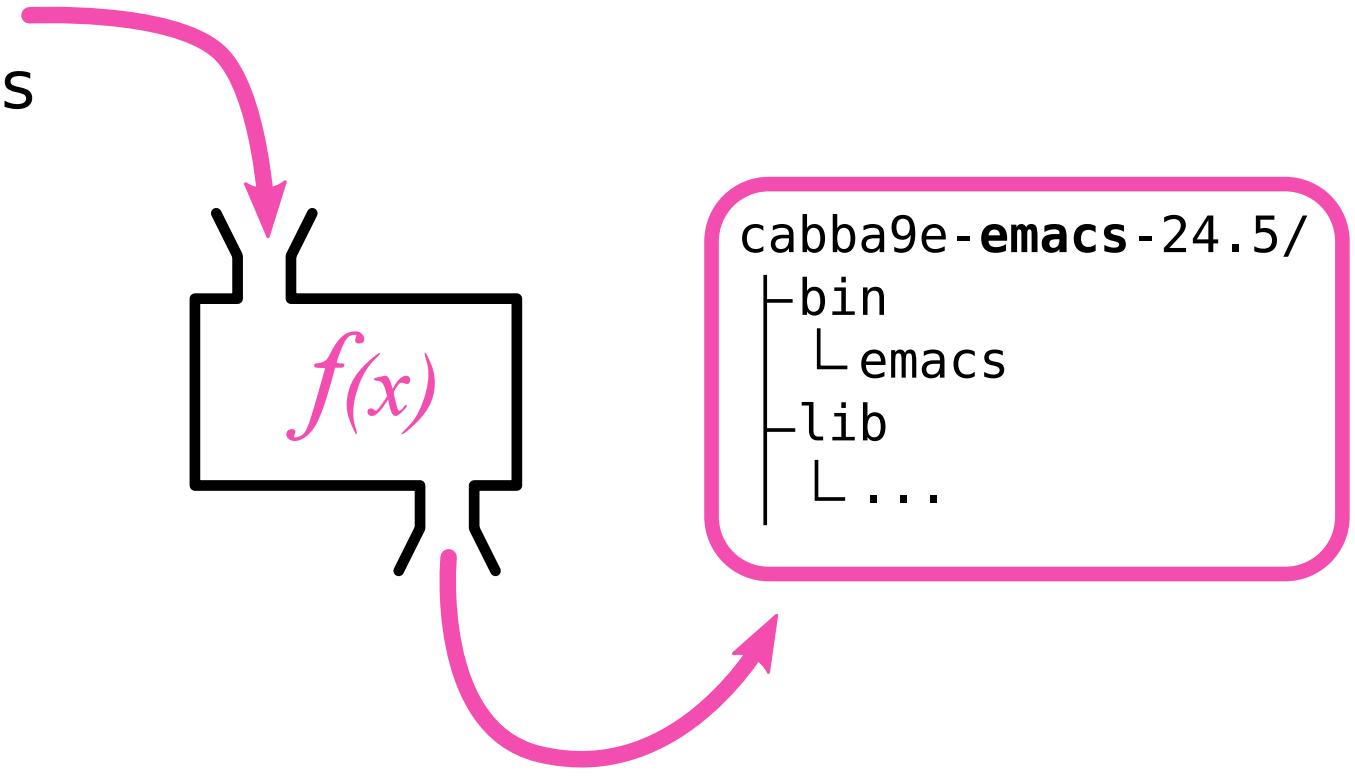
Change parts

No black boxes

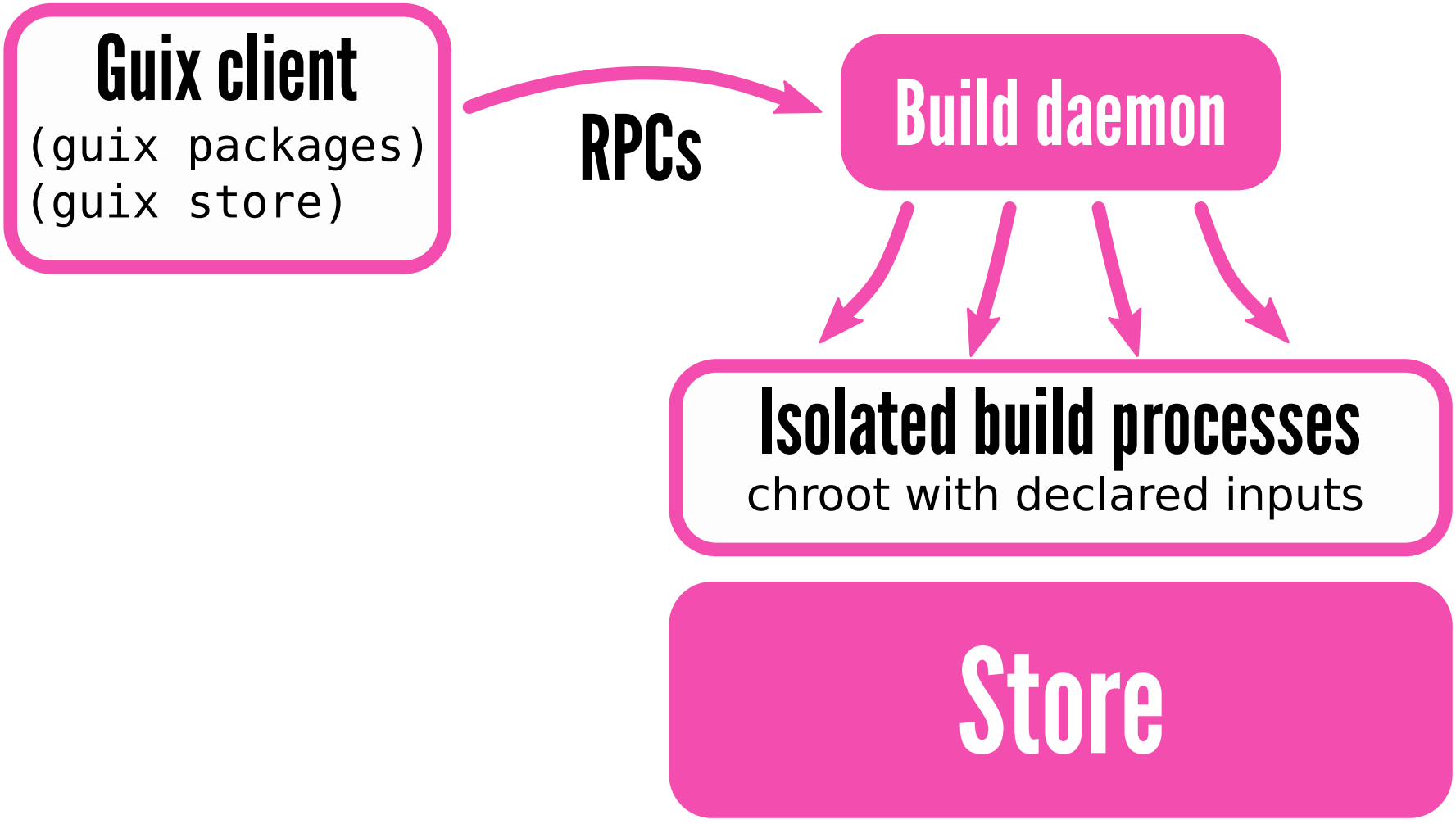


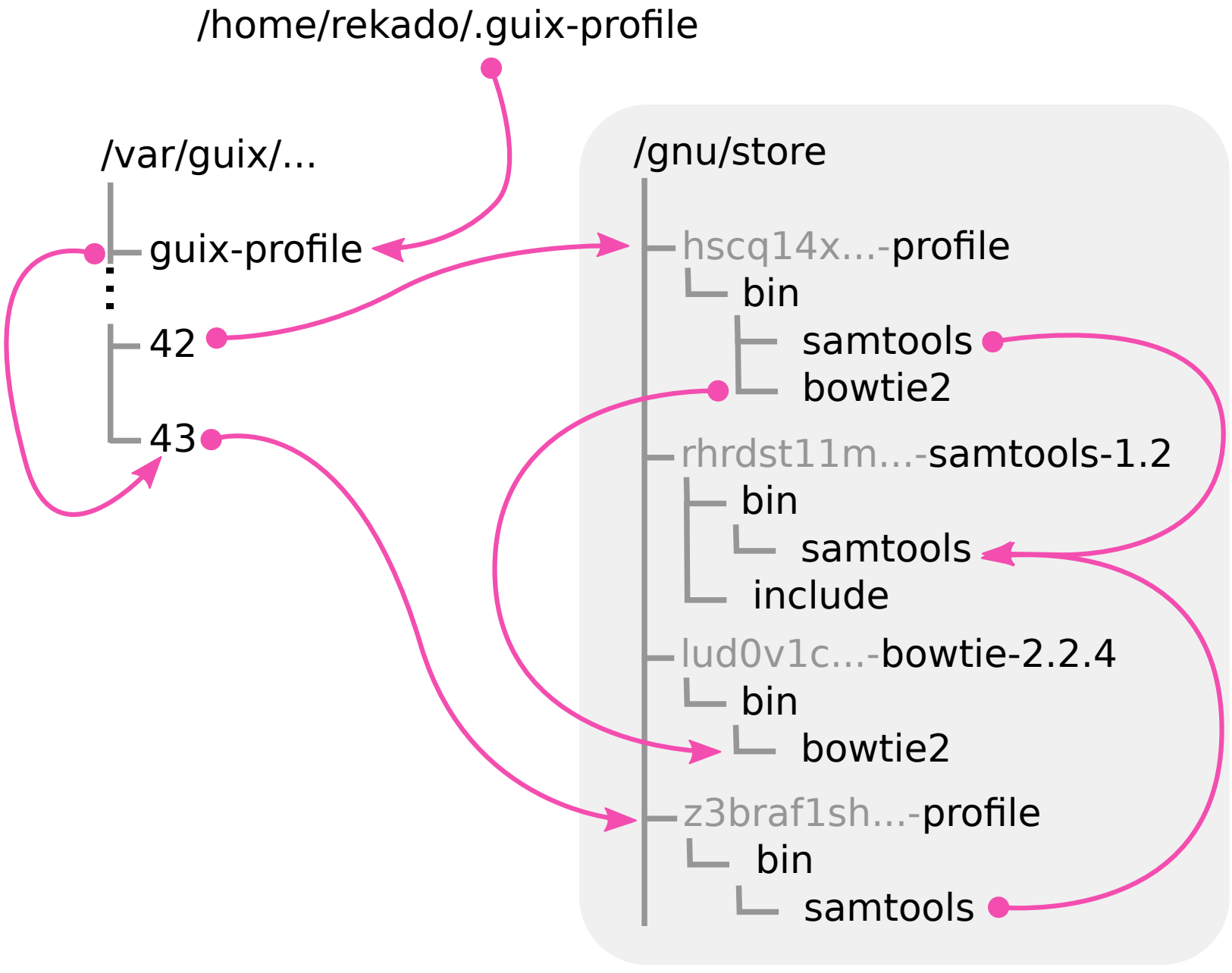
Functional packaging

headers
sources
build tools
libraries
...



GNU Guix


Guix client
(guix packages)
(guix store)
RPCs
Build daemon
Isolated build processes
chroot with declared inputs
Store


/home/rekado/.guix-profile
/var/guix/...
guix-profile
42
43
/gnu/store
hscq14x...-profile
bin
samtools
bowtie2
rhrdst11m...-samtools-1.2
bin
samtools
include
lud0v1c...-bowtie-2.2.4
bin
bowtie2
z3braf1sh...-profile
bin
samtools

Learn more!

#guix on irc.freenode.net

http://gnu.org/s/guix

http://arxiv.org/abs/1506.02822v2

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