

How to use **apt-repos** to inspect multiple apt repositories?

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...the speaker = the author:

Christoph Lutz

2005 – 2011:

→ LiMux Office Team

2015 – 2019:

→ LiMux Developer

2020 – Nowadays:

→ still using apt-repos in the context of my new job in a commercial company

...the tool **apt-repos**:

written for Munich's
LiMux Project

<https://github.com/chrlutz/apt-repos>

Useful for maintainers of
debian based Linux distris
to inspect
apt repositories

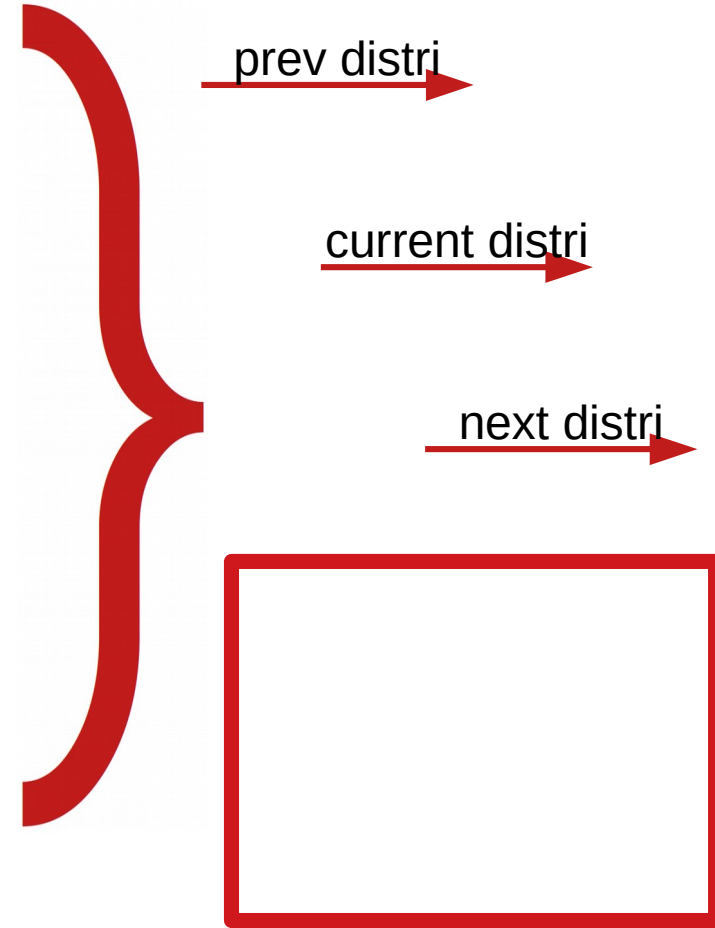
LGPL v2.1



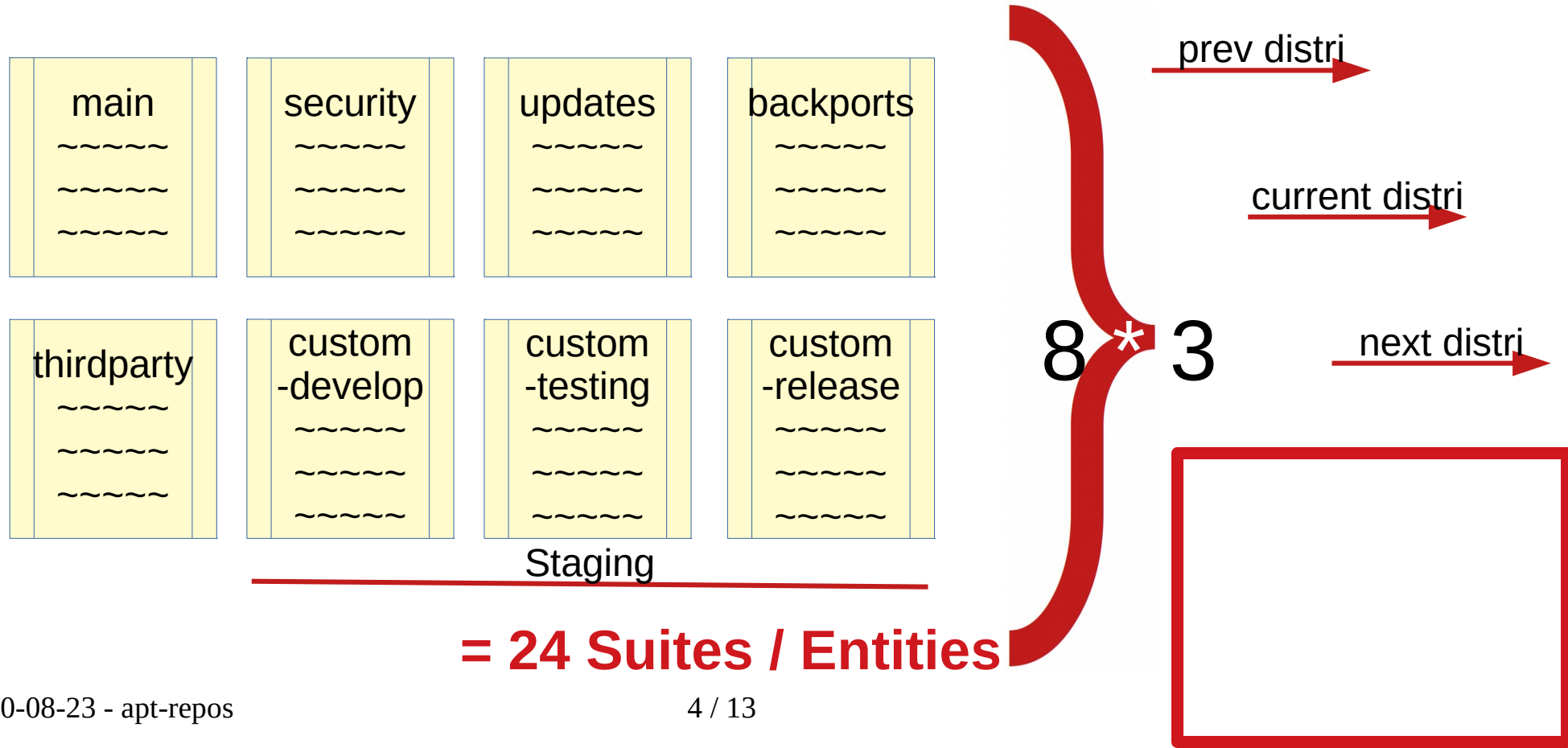
What you might want to inspect

as maintainer of a debian based Linux Distribution:

- Content of used **Upstream-Suites** (main-, security-, updates- and backports-Suites) and further **PPAs**
- **Business specific third party packages**
- **Custom, derived and adjusted** packages
- Packages & Versions in suites reflecting different **development stages** (eg. develop, testing, production)
- Different **mirrors** of the same things



What you might want to inspect



Questions you might want to answer



- Which **suites** do we have in our current distribution?
- **Where is** ,git' and in which version?
- **From which** upstream repository did we import ,anacron'?
- Which update packages do we provide (**list a repo/suite**)?
- Is my mirror of ,buster-updates' **up to date (compare suites)**?
- Is there a **changelog** for my custom repository?



Manually browse the APT-Repository Structure

<http://deb.debian.org/debian>

/dists/ → [Packages.gz](#)

/pool/

→ No efficient enough!



How to answer? Approach 2

Use inspection provided by your repository management tool? e.g.

- **DAK:** `dak ls ...`
- **Aptly:** `aptly repo --with-packages list ...`
- **Reprepro:** `reprepro list ...`
- **Debmirror?** → just mirroring, no inspection?

Issues:

- Typically needs to be run on the repository server
--> Most repos are open! Want to inspect from anywhere!
- Different tools, syntax and switches for inspection...
- **...why can't we just use a tool to inspect the generic apt repository structure?**



How to answer? Approach 3

libapt-pkg(5)

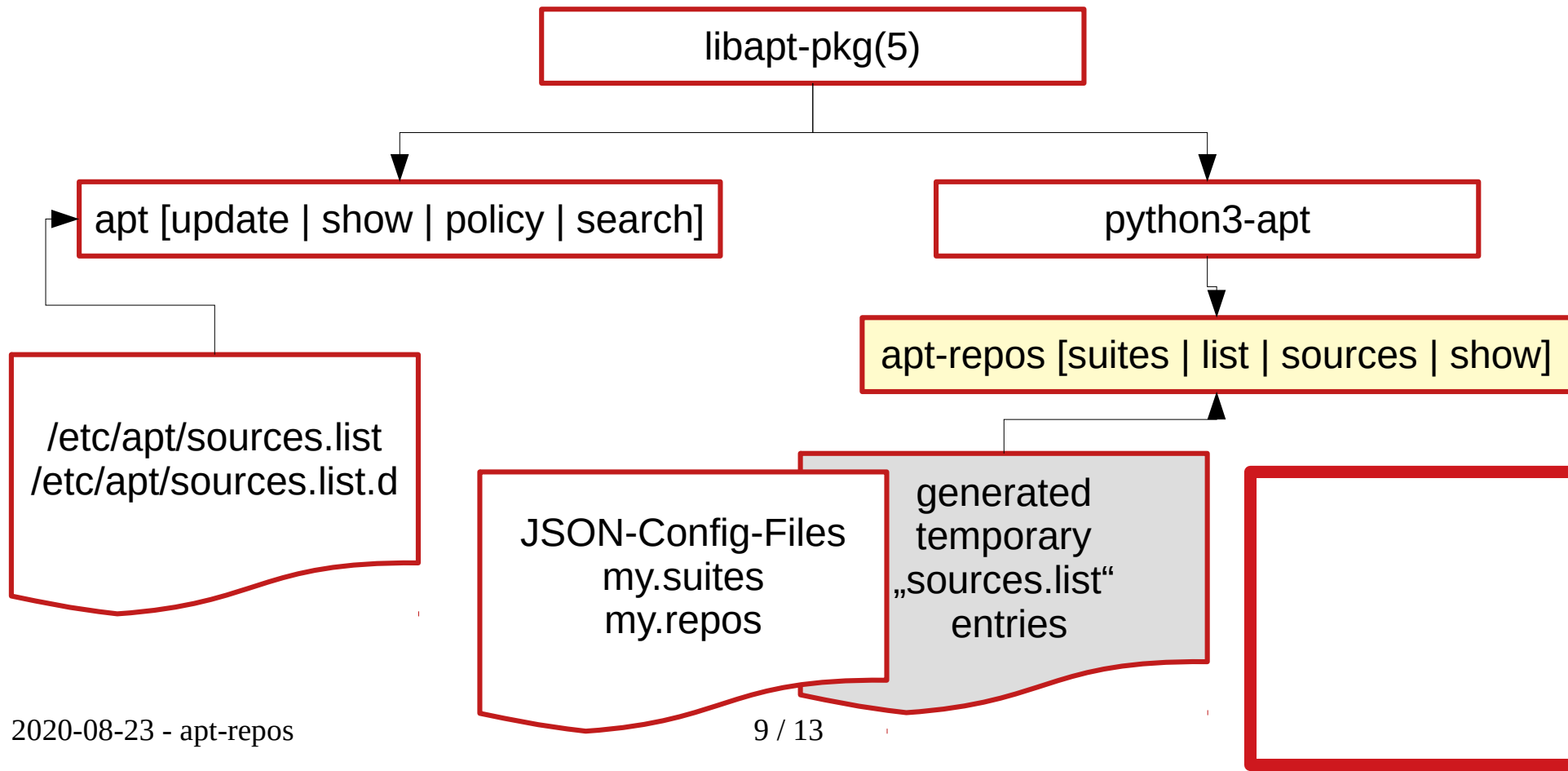
apt [update | show | policy | search]

APT can do that, but...

/etc/apt/sources.list
/etc/apt/sources.list.d

...want to add 24 suites to your
sources.list and modify your
local system?

How to answer? apt-repos!





- Which **suites** do we have for our current distribution?
→ apt-repos suites
- **Where is** ,git' and in which version?
→ apt-repos ls -s debian: git
- **From which** upstream repository did we import ,anacron'?
→ apt-repos ls -s : anacron
- Which update pkgs do we provide (**list a suite**)?
→ apt-repos ls -s ubuntu:focal-updates -r .



- Is my mirror of ,buster-updates' **up to date (compare suites)**?
→ `apt-repos ls -s ref:suite,dest:suite -r . -di s [-dt meld]`
- Is there a **changelog** for my custom repository?
→ `apt-repos ls -s my:suite -r . --format=list >git-versioned.list`
- What's the **source name** of my custom package?
→ `apt-repos ls custom-package`
- Which other **packages** derive **from that source**?
→ `apt-repos ls src:custom-src`



Thanks for listening
and have fun at the conference!

