

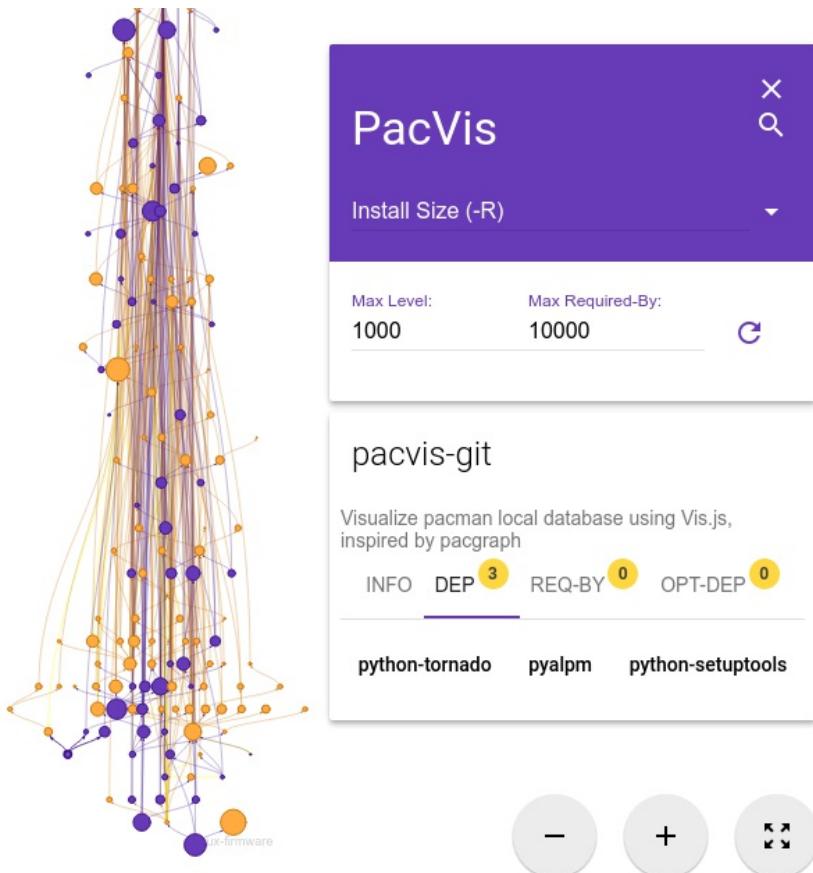
# PacVis: pacman



- 
- PacVis .....
  - PacVis .....
    - pactree .....
    - pacgraph .....  - PacVis .....
  - PacVis .....
  - PacVis .....
    - .....

- .....
  - .....
  - Linux
  - pacman -Qtd
- PacVis .....

## PacVis



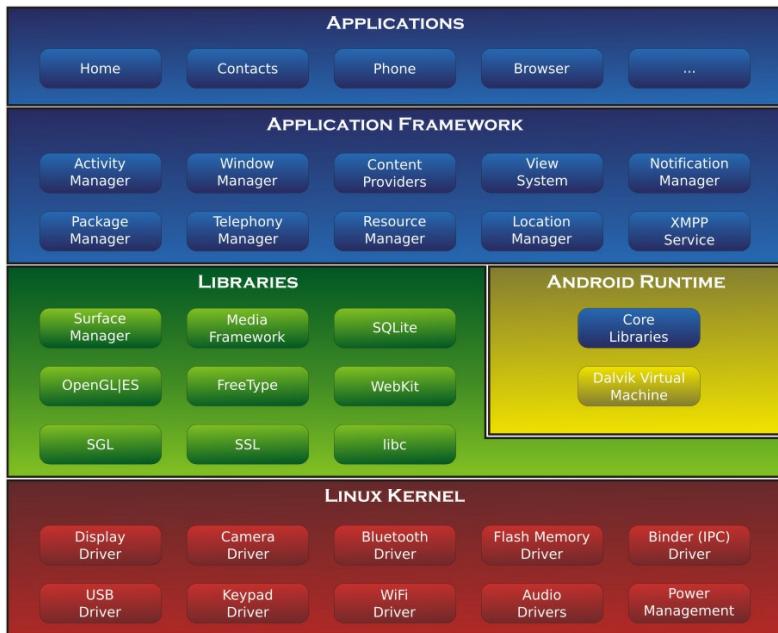
# PacVis

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Arch Linux Arch Linux Arch  
Linux Debian/Fedora/openSUSE  
Arch 3 10 Arch Linux PKGBUILD

Arch Linux Arch Linux ArchWiki  
pacstrap /mnt base /mnt  
base base  
pacman -Qtd

- 1.
- 2.
- 3.



*Android*

macOS

Android Linux

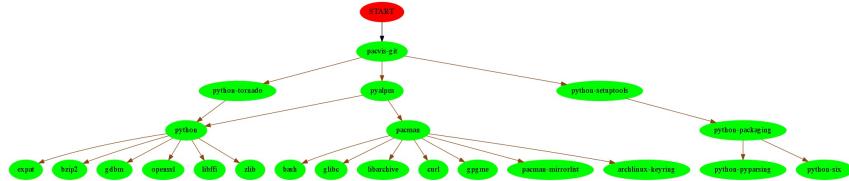
Linux Linux Linux

PacVis

PacVis PacVis PacVis

pactree

```
pactree ..... pacman ..... pactree  
--graph pactree ..... dot dot  
  
pactree pacvis-git -d3 --graph | dot -  
Tpng >pacvis-pactree.png
```



```
1 $ pactree pacvis-git -d3
2 pacvis-git
3   |-python-tornado
4     \-python
5       |-expat
6       |-bzip2
7       |-gdbm
8       |-openssl
9       |-libffi
10      \-zlib
11    |-pyalpm
12      \-python
13      \-pacman
14        |-bash
15        |-glibc
16        |-libarchive
17        |-curl
18        |-gpgme
19        |-pacman-mirrorlist
20        \-archlinux-keyring
21    |-python-setuptools
22      \-python-packaging
23        |-python-pyparsing
24        \-python-six
25 $ pactree pacvis-git -d3 --graph | dot -Tpng >pacvis-pactree.png
```

(Tree) ..... PacVis bash/python  
pactree pacman pactree dot

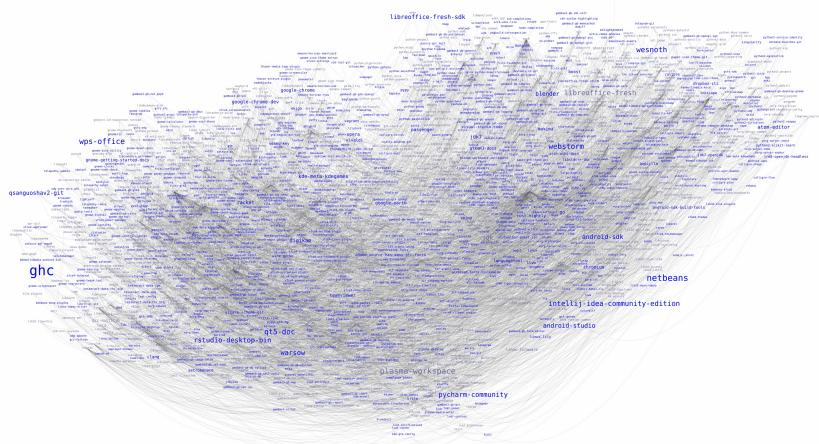
pactree PacVis pacman alpm  
pactree C PacVis pacman pyalpm  
alpm Python pactree alpm PacVis

# pacgraph

pacgraph

29726MB

android-ndk



pacgraph Arch Linux Trusted User  
keenerd PacVis Python pactree  
pacgraph dot

pacgraph pacgraph

pacgraph GUI pacgraph-tk tk  
GUI

pacgraph pactree

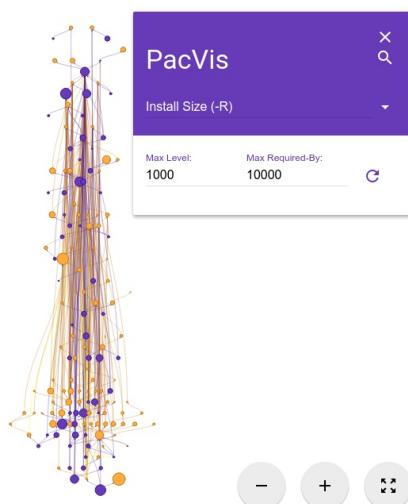
pacgraph pacgraph  
pacgraph

# PacVis

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PacVis

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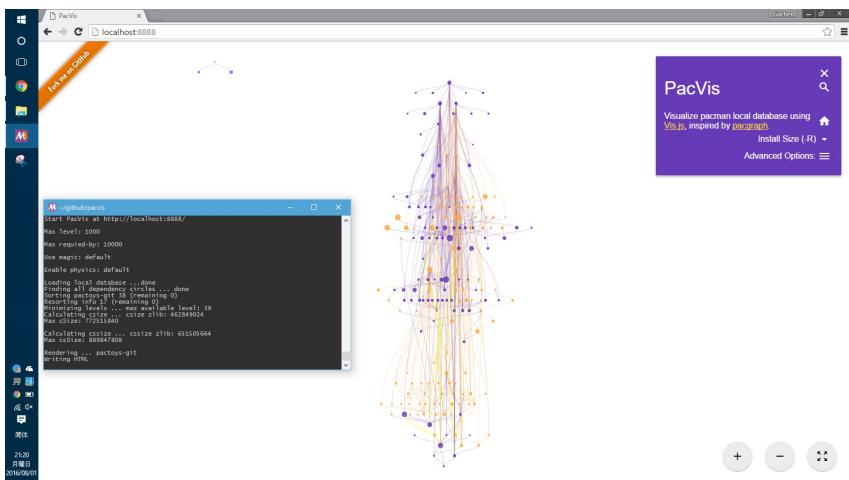


AUR pacvis [pacvis-git](#) pacvis  
aurhelper aur PKGBUILD

```
1 ~$ git clone aur@aur.archlinux.org:pacvis-git.git
2 ~$ cd pacvis-git
3 ~/pacvis-git$ makepkg -si
4 ~/pacvis-git$ pacvis
5 Start PacVis at http://localhost:8888
```

<http://localhost:8888/> PacVis  
demo: <https://pacvis.farseerfc.me/>

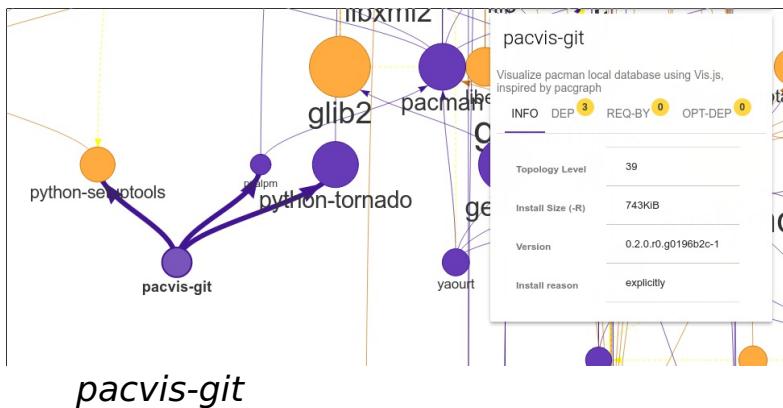
# Windows msys2 PacVis



PacVis pyalpm tornado pacman  
Windows msys2 msys2 tornado

# PacVis

PacVis Google Maps



pacvis-git pyalpm, python-tornado  
python-setuptools pyalpm pacman



PacVis pacvis-git 39  
pyalpm 38 pyalpm pacman 37  
PacVis pacgraph

PacVis Dep Req-By

## **Max Level**

PacVis PacVis PacVis

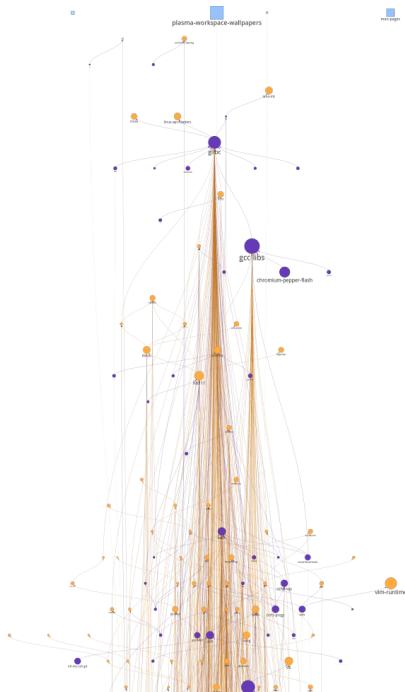
## **Max Required-By**

PacVis PacVis glibc gcc-libs  
PacVis

# PacVis

KDE PacVis

17M



glibc

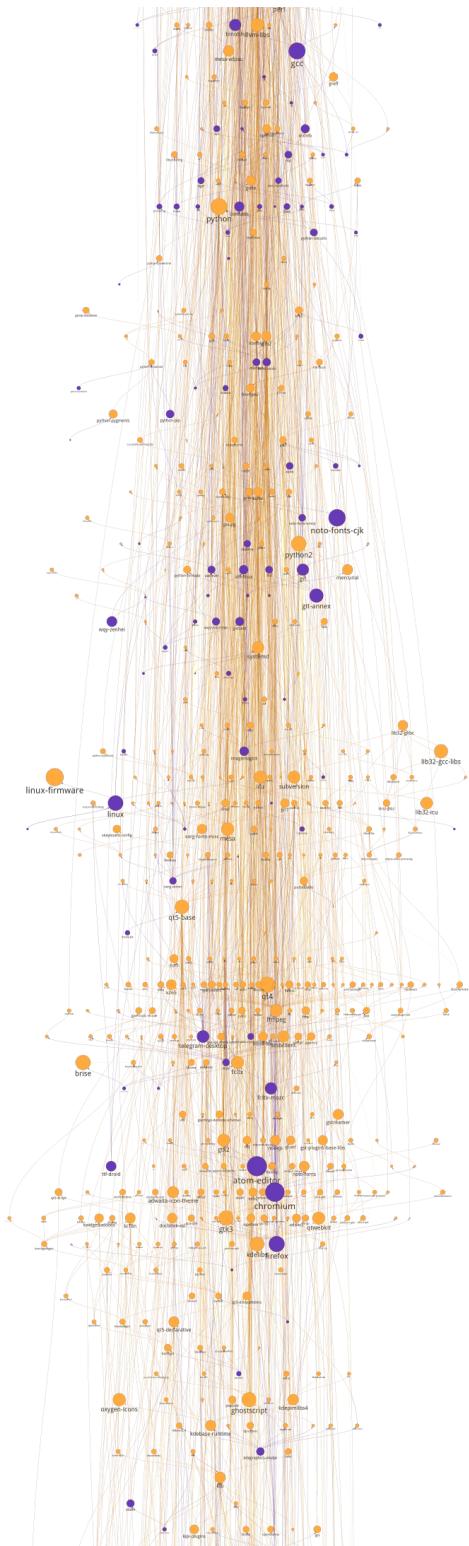
gcc-libs

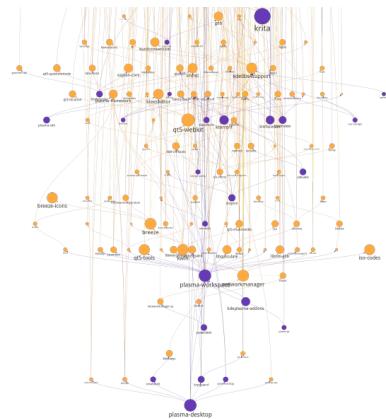
libx11

bash

vim

perl





krita

# plasma-framework

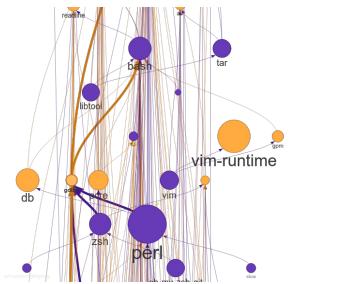
# plasma-workspace

# plasma-desktop

# PacVis glibc

- glibc C
  - Bash/Perl/Python
  - coreutils/gcc/binutils
  - pacman / systemd
  - gtk{2,3}/qt{4,5} GUI toolkit
  - chromium GUI
  - Plasma/Gnome

zsh gdbm bash zsh bash  
python Arch Linux python3 python2  
pypy



*zsh gdbm bash*

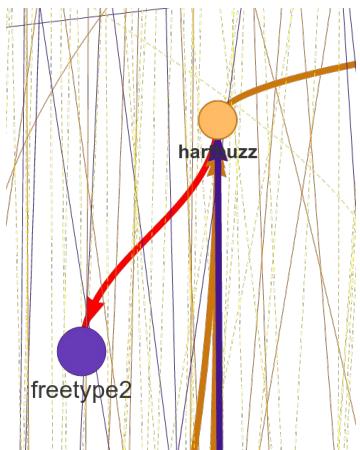
*qt5-base < qt4 < gtk2 < gtk3 qt5*

*qt4 gtk qt*

*freetype2 harfbuzz freetype2*

*harfbuzz OpenType KDE kio*

*kinit FUSE KDE*



*freetype2 harfbuzz*

*PacVis*



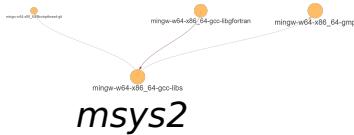
# Linux

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glibc glibc syscall glibc  
GNU GNU/Linux Linux demo  
Linux mkinitcpio

# pacman -Qtd

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msys2 PacVis

pacman -Qtd  
pacman -Qtd

# PacVis

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# PacVis

1. optdeps optdeps
2. provides PacVis alpm
3. (core/extr/community/...)
4. pactree/pacgraph

PacVis issue .....