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1	nix- (nix original command)	
\$	Snix-env –list-generations Snix-env -G 42 or Snix-env –switch-generations Snix-env –rollback Snix-env -e firefox Snix-env -e '.*' Snix-store –delete Snix-store –gc Snix-collect-garbage -d	on 42

# 2 nix (nix command improved)

\$nix-env nix profile

\$nix-env -iA firefox \$nix profile install firefox \$nix profile install nixpkgs#hello

\$nix-env -e firefox \$nix profile remove firefox

\$nix-env -q \$nix profile list \$nix-env -list-generations \$nix profile history \$nix-env -rollback \$nix profile rollback

\$nix-env -qa \$nix-env -qaPs

\$nix profile install \$nix profile remove \$nix profile rollback

\$nix profile list 
\$nix profile history

nix-env App profile manifest.nix , nix profile App manifest.json . nix profile App profile nix-env .

nix-store - q - tree 'realpath ./result/bin/S4 <math display="inline">nix-store - q - referrers-closure 'realpath ./result/bin/S4

#### 3 nixos

nixos-rebuild switch –rollbackflake.nix >flake.nix \$sudo nixos-rebuild switch –flake .#syryuhds –impure

### 4 flake

[flake.nix ]\$nix build nix build github:syryuauros/myflakes/masterflake.nix >flake.nix

\$nix run github:syryuauros/myflakes/master

\$ nix run nixpkgs#gnuplot

\$nix flake metadata github:edolstra/dwarffs

\$nix flake show github:edolstra/dwarffs

\$nix-store -q -referrers-closure 'realpath ./result/bin/S4

\$ nix registry add nixpkgs github:NixOS/nixpkgs/5272327b81ed355bbed5659b8d303cf2979b6953

\$nix-info -m

```
"https://github.com/<owner>/<project>/commit/<hash>" example
https://github.com/nixos/nixpkgs/commit/ede02b4ccb13557b95058d66146640a2b0bb198f
$nix build (default package ) $nix build .#s4 .#gnuplot (default package package .)
```

#### 4.1 flake override

```
ex) (openblas.override { singleThreaded = true;})
```

or let openblas-single-thread = openblas.override { singleThreaded = true; };

### 5 nix-shell

nix-shell -p 'lua.withPackages(ps: with ps; [ busted luafilesystem ])'

## 6 nixpkgs

#### 6.1 confirm packages for nix-build, nix-instantiate, nix-channel

- 1 \$\text{snixrepl} [\text{Ret}] \text{ nix-repl} > \text{l} \text{ nix-repl} > \text{keyword}(\text{ex:rust}) + \text{TAB}
- 2 /nix/var/nix/profiles/per-user/root/channels/nixos/pkgs/top-level/all-packages.nix
- 3 \$cd 'nix-instantiate -eval -E '<nixpkgs>'' [Ret] cat > all-packages.nix
- 4 \$NIX PATH, all-packages.nix

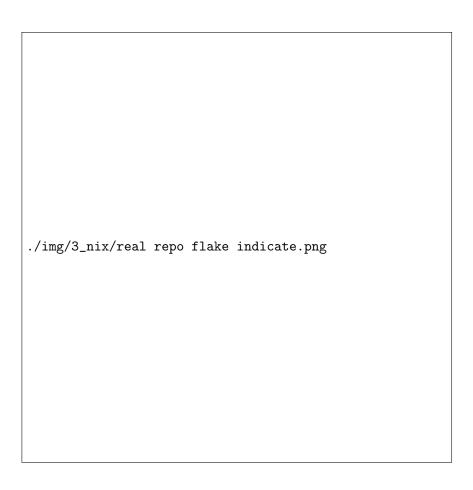
## 6.2 confirm packages for nix-env

- 1 \$nix-env -qa 'keyword.\*' or \$nix-env -qaPs 'keyword'
- 2  $\c^{-}/.nix$ -defexpr/channels\_root/nixos/pkgs/top-level, all-packages.nix

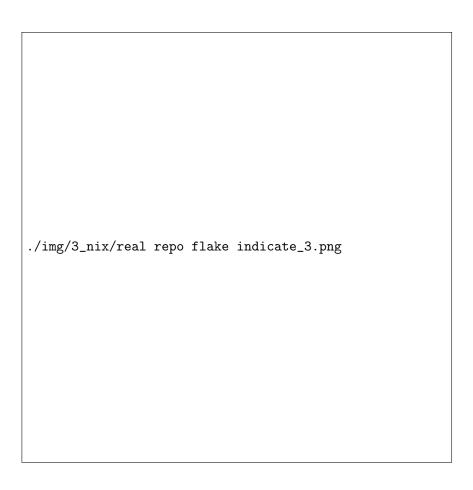
#### 6.3 confirm packages for flakes

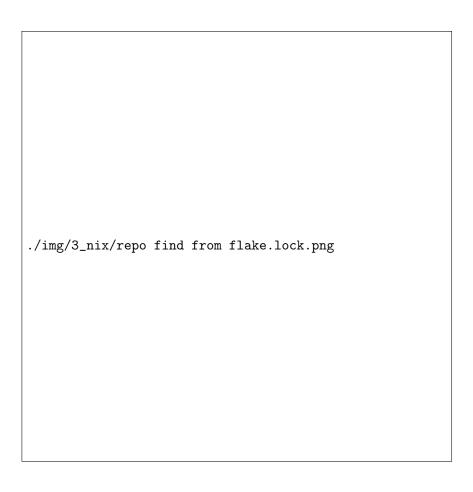
1 flake.lock » "nixpkgs" "rev" term » github.com/[owner]/[repo]/tree/[rev]

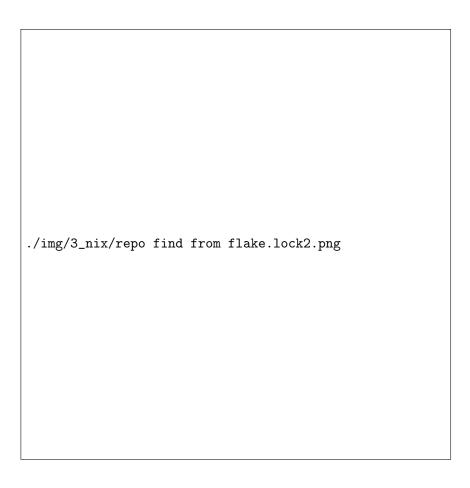
1	nix repi
7.1	${f nix}{-}{f repl}{>}$
	:help TAB :doc keyword
8	pictures
	./img/3_nix/flake input url.png

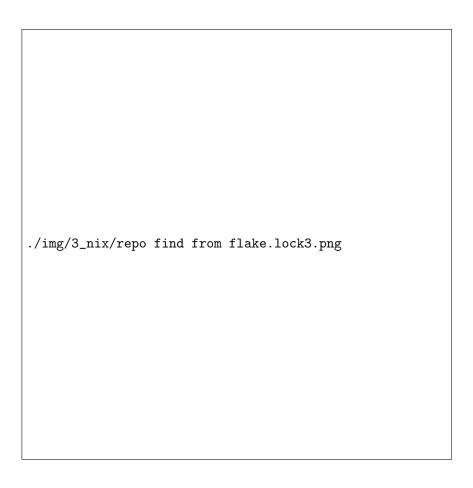


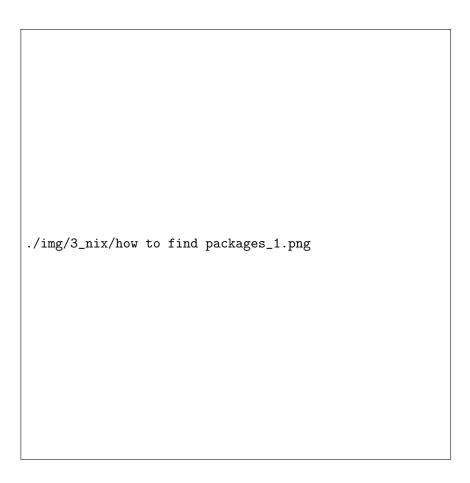














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