Towards reproducibility: pinning Nixpkgs

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In various Nix examples, you'll often see the following:

```
1 { pkgs ? import <nixpkgs> {} }:
2
3 ...
```



information on lookup paths in Nix language basics.
revision of Nixpkgs. Find more

This is a **convenient** way to quickly demonstrate a Nix expression and get it working by importing Nix packages.

However, the resulting Nix expression is not fully reproducible.

Pinning packages with URLs inside a Nix expression

To create **fully reproducible** Nix expressions, we can pin an exact version of Nixpkgs.

The simplest way to do this is to fetch the required Nixpkgs version as a tarball specified via the relevant Git commit hash:

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Skip to main content

```
3
4 ...
```

Picking the commit can be done via status.nixos.org, which lists all the releases and the latest

When choosing a commit, it is recommended to follow either

- the **latest stable NixOS** release by using a specific version, such as nixos-21.05, or
- the latest **unstable release** via nixos-unstable.

Next steps

- For more examples and details of the different ways to pin nixpkgs, see Pinning Nixpkgs.
- Automatically managing remote sources with npins