asdf Multi-tool version manager

CONCEPTS

asdf is one version manager for many tools. Each tool comes from a plugin; versions are pinned per directory in a .tool-versions file.

Plugin knows the tool
↓ install
Installed version in the data dir
↓ set
.tool-versions per directory
↓ shim
Command resolved version

Shims in PATH pick the version by looking up from the current directory. After installing a package that adds executables, run asdf reshim if a command is not found.

Version 0.16 removed asdf global and asdf local; use asdf set instead. Older releases still use the old commands.

PLUGINS

`asdf plugin add <name>`
Add a plugin from the official list

`asdf plugin add <name> <git-url>`
Add a plugin from a Git repo

`asdf plugin list`
List installed plugins

`asdf plugin list all`
Browse all registered plugins

`asdf plugin update --all`
Update every plugin

`asdf plugin remove <name>`
Remove a plugin and its versions

INSTALL VERSIONS

`asdf list all <name>`
List all available versions

`asdf list all <name> <prefix>`
Filter available versions

`asdf install <name> <version>`
Install a specific version

`asdf install <name> latest`
Install the latest stable

INSTALL VERSIONS (cont.)

`asdf install <name> latest:<prefix>`
Latest matching a prefix

`asdf install <name>`
Install the version in .tool-versions

`asdf install`
Install everything in .tool-versions

`asdf latest <name>`
Show the latest stable version

`asdf uninstall <name> <version>`
Remove an installed version

SELECT VERSIONS

`asdf set <name> <version>`
Pin version in ./.tool-versions

`asdf set -u <name> <version>`
Pin in the home .tool-versions

`asdf set -p <name> <version>`
Pin in the nearest parent file

`asdf current`
Show versions in use here

`asdf current <name>`
Show version of one tool

`asdf list <name>`
List installed versions

`asdf where <name> [<version>]`
Print the install path

`asdf which <command>`
Print the path to an executable

SHIMS AND UTILITIES

`asdf reshim <name> <version>`
Rebuild shims for a version

`asdf version`
Print the asdf version

.tool-versions lines

Line	Meaning
`nodejs 22.4.0`	Exact version
`python 3.12.4 3.11.9`	First found wins, rest fallback
`ruby latest`	Resolved at use time
`golang system`	Use the system binary
`# note`	Comment