# mise Tool versions, env and tasks

## CONCEPTS

mise manages tool versions, env variables and tasks from one mise.toml per project. Commit it so everyone gets the same setup.

**mise.toml** [tools] [env] [tasks]
↓ `mise install`
**Installed tools** in the mise data dir
↓ `activate or shims`
**PATH + env** per directory
↓ `mise run`
**Tasks** run with these tools
What mise does in a project

Activation (mise activate in your shell rc) updates PATH on every prompt. Shims suit IDEs and scripts that skip rc files; mise exec and mise run need neither.

## INSTALL AND ACTIVATE

**`curl -fsSL https://mise.run | sh`**
Install mise to ~/.local/bin

**`eval "$(mise activate bash)"`**
Activate in bash (put in ~/.bashrc)

**`eval "$(mise activate zsh)"`**
Activate in zsh (put in ~/.zshrc)

## TOOLS

**`mise use <tool>@<version>`**
Install and add to mise.toml

**`mise use -g <tool>@<version>`**
Same, in the global config

**`mise install`**
Install every tool the config lists

**`mise ls`**
List installed and active tools

**`mise ls-remote <tool>`**
Versions available to install

**`mise upgrade`**
Upgrade within configured ranges

## RUNNING WITH TOOLS

**`mise exec <tool>@<version> -- <cmd>`**
Run a command with that tool

**`mise x -- <cmd>`**
Run with the project's tools and env

**`mise shell <tool>@<version>`**
Use a version in this shell only

## ENVIRONMENT

**`mise set <KEY>=<value>`**
Set a variable in mise.toml

**`mise set`**
List variables and their sources

## TASKS

**`mise run <task>`**
Run a task and its dependencies

**`mise <task>`**
Shorthand for mise run <task>

**`mise tasks`**
List tasks

**Task fields in [tasks.<name>]**

| Field | Effect |
|---|---|
| `run` | Command, or array run in order |
| `description` | Shown in mise tasks |
| `depends` | Tasks that must succeed first |
| `alias` | Short name for mise run |
| `dir` | Working directory |
| `env` | Variables for this task only |
| `sources / outputs` | Skip when outputs are current |
| `hide` | Hide from the list, still runnable |
| `confirm` | Ask before running |

## CONFIG AND TRUST

**`mise trust`**
Trust the nearest untrusted config

**`mise doctor`**
Check the setup for problems