# chezmoi Dotfile manager

**START HERE**

**`chezmoi init <user>`**
Clone your dotfiles repo

**`chezmoi apply`**
Write changes to $HOME

**`chezmoi add <file>`**
Start managing a file

**`chezmoi status`**
What would change?

**`chezmoi edit <file>`**
Edit the source copy

**`chezmoi update`**
Pull and apply

**`chezmoi diff`**
Preview changes

**`chezmoi cd`**
Shell into the source dir

**Source dir** ~/.local/share/chezmoi → `templates + data` → **Target state** computed per machine → `chezmoi apply` → **Destination** your home dir → `chezmoi add / re-add` → **Source dir** back into the repo

## CONCEPTS

chezmoi keeps a source directory (a git repo) and copies it into your home directory; your real dotfiles are never symlinks unless you ask.

Always run chezmoi diff (or apply -n -v) before apply on a new machine: apply overwrites files in $HOME.

## SETUP

**`chezmoi init`**
Create an empty source directory

**`chezmoi init <user>`**
Clone github.com/<user>/dotfiles

**`chezmoi init --apply <user>`**
Clone and apply in one step

**`chezmoi cd`**
Open a shell in the source dir

## MANAGE FILES

**`chezmoi add <file>`**
Start managing a file or dir

**`chezmoi add --template <file>`**
Add as a template

**`chezmoi re-add`**
Pull edited $HOME files back into source

**`chezmoi edit <file>`**
Edit a managed file's source

**`chezmoi edit --apply <file>`**
Edit and apply on exit

## INSPECT AND APPLY

**`chezmoi diff`**
Show what apply would change

**`chezmoi apply`**
Make $HOME match the source

**`chezmoi apply -n -v`**
Dry run with verbose output

**`chezmoi status`**
Two-column change summary

*First column: changed since chezmoi last wrote it. Second: what apply would do.*

**`chezmoi managed`**
List managed targets

**`chezmoi update`**
Pull the repo, then apply

**`chezmoi git -- <args>`**
Run git in the source dir

*Put git flags after -- so chezmoi does not parse them.*

## TEMPLATES AND DATA

**`chezmoi data`**
Show template data as JSON

**`chezmoi execute-template '<tmpl>'`**
Render a template string

### Template variables

| Variable | Value |
|---|---|
| `.chezmoi.os` | linux, darwin, windows |
| `.chezmoi.arch` | amd64, arm64 |
| `.chezmoi.hostname` | Short hostname |
| `.chezmoi.username` | Current user |
| `.chezmoi.homeDir` | Home directory |
| `.chezmoi.sourceDir` | Source directory |

## TEMPLATES AND DATA (cont.)

### OS-specific block

```
{{ if eq .chezmoi.os "darwin" -}}
export BROWSER=open
{{ else -}}
export BROWSER=xdg-open
{{ end -}}
```

## SOURCE NAMING

### Source prefixes

| Name | Effect |
|---|---|
| `dot_zshrc` | Target .zshrc |
| `private_` | No group/world access |
| `executable_` | Mark executable |
| `readonly_` | Remove write bits |
| `symlink_` | Create a symlink |
| `exact_` | Delete unmanaged children |
| `encrypted_` | Stored encrypted |
| `create_` | Write only if missing |
| `modify_` | Script that edits a file |
| `remove_` | Delete the target |

### Suffixes and scripts

| Name | Effect |
|---|---|
| `file.tmpl` | Contents are a template |
| `run_<name>` | Run script on every apply |
| `run_once_<name>` | Run once per content |
| `run_onchange_<name>` | Run when content changes |
| `before_ / after_` | Script ordering vs files |

**`.chezmoiignore`**
Targets to skip (template, per machine)

## SECRETS AND EXTERNALS

Config must set encryption = "age" (or "gpg") at the top of chezmoi.toml before --encrypt works.

## GLOBAL FLAGS

**`-n / --dry-run`**
Never modify anything

**`-v / --verbose`**
Show diffs and commands

## RECIPES

### New machine in one line

```
chezmoi init --apply <user>
chezmoi status
# later: pick up changes
chezmoi update
```

### Track a new dotfile

```
chezmoi add ~/.config/nvim
chezmoi edit ~/.config/nvim/init.lua
chezmoi diff
chezmoi apply
```

### Commit and push the source

```
chezmoi cd
git add -A
git commit -m "Update dotfiles"
git push
```

### Per-machine git identity

```
# dot_gitconfig.tmpl
[user]
  name = {{ .name | quote }}
  email = {{ .email | quote }}
```