# pre-commit Git hook manager

## CONCEPTS

Hooks only see staged files on commit. A fresh config does nothing until you run --all-files once.

**git commit** staged files
↓ hook script
**pre-commit** reads config
↓ filters files
**Hooks** cached envs
↓ exit code
**Commit** or abort

A hook that edits files counts as a failure: review the changes, git add them and commit again.

## INSTALL & SETUP

**pip install pre-commit**
Install with pip

**pre-commit install**
Install the git pre-commit hook

## RUNNING

**pre-commit run**
Run hooks on staged files

**pre-commit run --all-files**
Run on every tracked file

**pre-commit run** *<hook-id>*
Run a single hook

**pre-commit run** *<hook-id>* **--all-files**
One hook on all files

**pre-commit run --from-ref** *<ref>* **--to-ref** *<ref>*
Run on files changed between refs

## SKIPPING

**SKIP=***<id>*,*<id>* **git commit**
Skip hooks by id

**git commit --no-verify**
Skip all git hooks

## UPDATING & CACHE

**pre-commit autoupdate**
Bump every rev to the latest tag

## CONFIG FILE

### Top-level keys

| Key | Meaning |
|---|---|
| `repos` | list of hook sources (required) |
| `default_stages` | stages hooks use by default |
| `default_install_hook_types` | what install sets up |
| `default_language_version` | e.g. python: python3.12 |
| `files / exclude` | global regex filters |
| `fail_fast` | stop after first failing hook |
| `minimum_pre_commit_version` | refuse older versions |

### Hook keys

| Key | Meaning |
|---|---|
| `id` | which hook (required) |
| `args` | extra arguments before filenames |
| `files / exclude` | regex on file paths |
| `types / types_or` | filter by file type |
| `stages` | git stages it runs on |
| `additional_dependencies` | extra packages for the env |
| `always_run` | run even without matching files |
| `pass_filenames` | local hooks: pass files or not |
| `language_version` | override the runtime version |

## LOCAL & META HOOKS

**repo: local**
Hooks defined in your own repo

## CI

**pre-commit run --all-files --show-diff-on-failure**
Typical CI step