## cargo lintcheck

Runs clippy on a fixed set of crates read from lintcheck/lintcheck\_crates.toml and saves logs of the lint warnings into the repo. We can then check the diff and spot new or disappearing warnings.

From the repo root, run:

```
cargo run --target-dir lintcheck/target --manifest-path lintcheck/Cargo.toml
```

cargo lintcheck

By default the logs will be saved into lintcheck-logs/lintcheck\_crates\_logs.txt.

You can set a custom sources.toml by adding --crates-toml custom.toml or using LINTCHECK\_TOML="custom.toml" where custom.toml must be a relative path from the repo root.

The results will then be saved to lintcheck-logs/custom\_logs.toml.

## Configuring the Crate Sources

The sources to check are saved in a toml file. There are three types of sources.

1. Crates-io Source

```
bitflags = {name = "bitflags", versions = ['1.2.1']}
```

Requires a "name" and one or multiple "versions" to be checked.

2. git Source

```
puffin = {name = "puffin", git_url = "https://github.com/EmbarkStudios/puffin", git_has
```

Requires a name, the url to the repo and unique identifier of a commit, branch or tag which is checked out before linting. There is no way to always check HEAD because that would lead to changing lint-results as the repo would get updated. If git\_url or git\_hash is missing, an error will be thrown.

3. Local Dependency

```
clippy = {name = "clippy", path = "/home/user/clippy"}
```

For when you want to add a repository that is not published yet.

## Command Line Options (optional)

```
bitflags = {name = "bitflags", versions = ['1.2.1'], options = ['-Wclippy::pedantic', '-Wcl:
```

It is possible to specify command line options for each crate. This makes it possible to only check a crate for certain lint groups. If no options are specified, the lint groups clippy::all, clippy::pedantic, and clippy::cargo are checked. If an empty array is specified only clippy::all is checked.

**Note:** -Wclippy::all is always enabled by default, unless -Aclippy::all is explicitly specified in the options.

## Fix mode

You can run ./lintcheck/target/debug/lintcheck --fix which will run Clippy with --fix and print a warning if Clippys suggestions fail to apply (if the resulting code does not build).

This lets us spot bad suggestions or false positives automatically in some cases.

Please note that the target dir should be cleaned afterwards since clippy will modify the downloaded sources which can lead to unexpected results when running lintcheck again afterwards.