# Contributing

## TL;DR

\* Fork the project from https://github.com/pivotal/LicenseFinder

\* Create a feature branch.

\* Make your feature addition or bug fix. Please make sure there is appropriate test coverage.

\* Rebase on top of master.

\* Send a pull request with commit messages tagged with an entry specified here: https://keepachangelog.com/en/1.0.0/.

## Running Tests

You can use the [LicenseFinder docker image](https://hub.docker.com/r/licensefinder/license\_finder/) to run the tests by using the `dlf` script.

There are 2 sets of tests to run in order to confirm that License Finder is working as intended:

```

./dlf rake spec

./dlf bundle exec rake features

```

The `spec` task runs all the unit test and the `features` task will run all the feature test.

Note that the feature test needs to be wrapped in `bundle exec`, or else it

will use the gem version installed inside the docker image.

## Useful Tips

To build the docker image simply call `docker build .` or explicitly pass the `Dockerfile`. Prebuilt versions of the

dockerfile can also be found on [Dockerhub](https://hub.docker.com/r/licensefinder/license\_finder/tags/).

To launch the docker image and interact with it via bash:

```

docker run -v $PWD:/scan -it licensefinder/license\_finder /bin/bash -l

```

`-v $PWD:/scan` will mount the current working directory to the /scan path.

## Adding Package Managers

There are a few steps to adding a new package manager.

The main things which need to be implemented are mentioned in [Package Manager](https://github.com/pivotal/LicenseFinder/blob/master/lib/license\_finder/package\_manager.rb).

[Here](https://github.com/pivotal/LicenseFinder/compare/v2.0.0...v2.0.1) is how

support was added for `rebar`, an `erlang` package manager.

There are feature tests and unit tests for each currently supported package manager.

\* [Feature test example](https://github.com/pivotal/LicenseFinder/blob/master/features/features/package\_managers/gvt\_spec.rb)

\* [Unit test example](https://github.com/pivotal/LicenseFinder/blob/master/spec/lib/license\_finder/package\_managers/gvt\_spec.rb)

## Adding Licenses

Add new licenses to `lib/license\_finder/license/definitions.rb`. There are

existing tools for matching licenses; see, for example, the MIT license, which

can be detected in many different ways.

## Adding Reports

If you need `license\_finder` to output additional package data, consider

submitting a pull request which adds new columns to

`lib/license\_finder/reports/csv\_report.rb`.

It is also possible to generate a custom report from an ERB template. Use this

[example](https://gist.github.com/mainej/b190d2f138c2b9e2e20a) as a starting

point. These reports will have access to the helpers in

[`LicenseFinder::ErbReport`](https://github.com/pivotal/LicenseFinder/blob/master/lib/license\_finder/reports/erb\_report.rb).

If you need a report with more detailed data or in a different format, we

recommend writing a custom ruby script. This

[example](https://gist.github.com/mainej/48ac616844505d50f510) will get you

started.

If you come up with something useful, consider posting it to the Google Group

[license-finder@googlegroups.com](license-finder@googlegroups.com).

## Development Dependencies

To successfully run the test suite, you will need the following installed:

- NPM (requires Node)

- Yarn (requires Node)

- Bower (requires Node and NPM)

- Maven (requires Java)

- Gradle (requires Java)

- Pip (requires python)

- Rebar (requires erlang)

- GoDep, GoWorkspace, govendor, Glide, Dep, and Gvt (requires golang)

- CocoaPods (requires ruby)

- Bundler (requires ruby)

- Carthage (requires homebrew)

- Mix (requires Elixir)

- Conan

- NuGet

- dotnet

The [LicenseFinder docker image](https://hub.docker.com/r/licensefinder/license\_finder/) already contains these dependencies.

If you run `rake check\_dependencies`, you'll see exactly which package managers you're missing.

### Python

For the python dependency tests you will want to have virtualenv

installed, to allow pip to work without sudo. For more details, see

this [post on virtualenv][].

[post on virtualenv]: http://hackercodex.com/guide/python-development-environment-on-mac-osx/#virtualenv

You'll need a pip version >= 6.0.

### JRuby

If you're running the test suite with jruby, you're probably going to

want to set up some environment variables:

```

JAVA\_OPTS='-client -XX:+TieredCompilation -XX:TieredStopAtLevel=1' JRUBY\_OPTS='-J-Djruby.launch.inproc=true'

```

### Gradle

You'll need a gradle version >= 1.8.