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# Istree Documentation

*Release 0.1.1*

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## Istree

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Istree is for ls what pstree is for ps, and some more ...

The idea struck when I had just started using leiningen for creating a clojure project. I wanted a way to see what all files/folders/things are created when leiningen creates a project. So I wrote this tool. It helps you visually see the folder hierarchy, and allows you to do some basic filtering on the tree.

- Free software: MIT license
- Documentation: <https://lstree.readthedocs.org>.

### 1.1 Features

- Show a folder (or many, if specified) in tree structure
- Show/hide hidden files
- Ignore empty directories
- Show (filter for) only certain files
- Ignore certain files/folders

### 1.2 Installation

Use pip to install Istree:

```
pip install lstree
```

### 1.3 Basic Usage

Istree when used without any arguments, shows the current tree for \$PWD:

```
tochukasui:hello-world$ lstree
|- ./
  |- doc/
    |- intro.md
  |- resources/
  |- src/
```

```
|- hello_world/
  |- core.clj

|- target/
  |- base+system+user+dev/
    |- classes/
      |- META-INF/
        |- maven/
          |- hello-world/
            |- hello-world/
              |- pom.properties

    |- stale/
      |- leiningen.core.classpath.extract-native-dependencies

  |- classes/
    |- META-INF/
      |- maven/
        |- hello-world/
          |- hello-world/
            |- pom.properties

    |- stale/
      |- leiningen.core.classpath.extract-native-dependencies

  |- hello-world-0.1.0-SNAPSHOT.jar

|- test/
  |- hello_world/
    |- core_test.clj

|- CHANGELOG.md
|- LICENSE
|- project.clj
|- README.md
```

Apparently this was a hello-world lein project after a *lein build*. Too much clutter. I don't care of about anything inside the target folder anyway. Let's cut it out:

```
tochukasui:hello-world$ lstree -i target
|- ./
  |- doc/
    |- intro.md

  |- resources/
  |- src/
    |- hello_world/
      |- core.clj

  |- test/
    |- hello_world/
      |- core_test.clj

  |- CHANGELOG.md
  |- LICENSE
  |- project.clj
  |- README.md
```



Much better. We ‘-i gnored’ the target folder. How about just focusing on the clojure source files?:

```
tochukasui:hello-world$ lstree -i target -f '*.clj'
|- ./
  |- doc/
  |- resources/
  |- src/
    |- hello_world/
      |- core.clj
  |- test/
    |- hello_world/
      |- core_test.clj
|- project.clj
```

Nice. But what are those ‘doc’ and ‘resources’ folders doing there? They don’t have any clj files; why clutter the view?:

```
tochukasui:hello-world$ lstree -i target -f '*.clj' --ignore-empty
|- ./
  |- src/
    |- hello_world/
      |- core.clj
  |- test/
    |- hello_world/
      |- core_test.clj
|- project.clj
```

Aha!

There are a few more useful tools Istree offers. For more info, check out the usage section of the documentation: <https://lstree.readthedocs.io/en/latest/usage.html>



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## Installation

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At the command line:

```
$ easy_install lstree
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv lstree  
$ pip install lstree
```



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## Usage

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lstrree is a command line utility to show a folder structure in tree form. This is useful when you are working on a project that involvs many files and folders.

Here is an example lstrree use:

```
tochukasui:testbed$ lstrree
|- ./
  |- emptydir/
  |- somedir/
    |- somefile.compiled
    |- somefile1
    |- somefile2
    |- somefile3

  |- datafile.xml
  |- ignore.me.compiled
  |- testfile
```

If you want to see hidden files, use -s:

```
tochukasui:testbed$ lstrree -s
|- ./
  |- .hiddendir/
    |- .hiddenfile
    |- .hiddenfile.compiled

  |- emptydir/
  |- somedir/
    |- somefile.compiled
    |- somefile1
    |- somefile2
    |- somefile3

  |- datafile.xml
  |- ignore.me.compiled
  |- testfile
```

For applying a wildcard filter to the folder contents, use -f options:

```
tochukasui:testbed$ lstrree -f '*.compiled' 'data*'
|- ./
  |- emptydir/
  |- somedir/
    |- somefile.compiled
```

```
|- datafile.xml
|- ignore.me.compiled
```

For ignoring files and directories, use `-i` option:

```
tochukasui:testbed$ lstree -i somefile* 'data*'
|- ./
  |- emptydir/
  |- somedir/
  |- ignore.me.compiled
  |- testfile
```

To ignore empty folder, there is `--ignore-empty` option:

```
tochukasui:testbed$ lstree -i somefile* 'data*' --ignore-empty
|- ./
  |- ignore.me.compiled
  |- testfile
```

For help, use `-h`:

```
tochukasui:testbed$ lstree -h
usage: lstree [-h] [-s] [--terse] [-i [IGNORE [IGNORE ...]]]
             [-f [FILTER [FILTER ...]]] [--ignore-empty] [--tab TAB]
             [folders [folders ...]]

positional arguments:
  folders                folders to draw tree for

optional arguments:
  -h, --help            show this help message and exit
  -s, --show-hidden    list hidden files and folders
  --terse              make it terse, visual pleasure is not desired
  -i [IGNORE [IGNORE ...]], --ignore [IGNORE [IGNORE ...]]
                      ignore any file or folder that matches these wildcards
  -f [FILTER [FILTER ...]], --filter [FILTER [FILTER ...]]
                      filter and show *ONLY FILES* that match these
                      wildcards
  --ignore-empty       ignore any empty folder (after filtering)
  --tab TAB            how many spaces per tab. more the spaces, more spread
                      out the tree
```

Specifying `--terse` gets rid of all new lines that are added to space out the tree:

```
tochukasui:testbed$ lstree -s --terse
|- ./
  |- .hiddendir/
    |- .hiddenfile
    |- .hiddenfile.compiled
  |- emptydir/
  |- somedir/
    |- somefile.compiled
    |- somefile1
    |- somefile2
    |- somefile3
  |- datafile.xml
  |- ignore.me.compiled
  |- testfile
```

While `-tab` option allows you to shrink or spread out the tree horizontally:

```
tochukasui:testbed$ lstree -s --terse --tab 6
|- ./
  |- .hiddendir/
    |- .hiddenfile
    |- .hiddenfile.compiled
  |- emptydir/
  |- somedir/
    |- somefile.compiled
    |- somefile1
    |- somefile2
    |- somefile3
  |- datafile.xml
  |- ignore.me.compiled
  |- testfile
tochukasui:testbed$
```





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## Contributing

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Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

You can contribute in many ways:

### 4.1 Types of Contributions

#### 4.1.1 Report Bugs

Report bugs at <https://github.com/shreyas/lstree/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

#### 4.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” is open to whoever wants to implement it.

#### 4.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “feature” is open to whoever wants to implement it.

#### 4.1.4 Write Documentation

lstree could always use more documentation, whether as part of the official lstree docs, in docstrings, or even on the web in blog posts, articles, and such.

#### 4.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/shreyas/lstree/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## 4.2 Get Started!

Ready to contribute? Here's how to set up *lstree* for local development.

1. Fork the *lstree* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/lstree.git
```

3. Install your local copy into a virtualenv. Assuming you have `virtualenvwrapper` installed, this is how you set up your fork for local development:

```
$ mkvirtualenv lstree
$ cd lstree/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass `flake8` and the tests, including testing other Python versions with `tox`:

```
$ flake8 lstree tests
$ python setup.py test
$ tox
```

To get `flake8` and `tox`, just `pip` install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

## 4.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in `README.rst`.
3. The pull request should work for Python 2.6, 2.7, 3.3, 3.4 and 3.5, and for PyPy. Check [https://travis-ci.org/shreyas/lstree/pull\\_requests](https://travis-ci.org/shreyas/lstree/pull_requests) and make sure that the tests pass for all supported Python versions.

## 4.4 Tips

To run a subset of tests:

```
$ python -m unittest tests.test_lstree
```



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**Credits**

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## 5.1 Development Lead

- Shreyas Kulkarni <shyran@gmail.com>

## 5.2 Contributors

None yet. Why not be the first?



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**History**

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**6.1 0.1.0 (2016-05-01)**

- First release on PyPI.





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## Indices and tables

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- `genindex`
- `modindex`
- `search`