# tinyobj Documentation

Release 0.1.0

**Brian Hicks** 

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a tiny dict -> object mapper

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# **Features**

• TODO

# 1.1 Contents:

# 1.1.1 Installation

At the command line either via easy\_install or pip:

```
$ easy_install tinyobj
$ pip install tinyobj
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv tinyobj
$ pip install tinyobj
```

# 1.1.2 **Usage**

Say you have a dictionary that looks sort of like this:

```
{
    'username': 'rabbit',
    'password': 'some-hash',
    'active': True
}
```

you'd define a schema like so:

```
from tinyobj import TinyObj, fields

class User(TinyObj):
    username = fields.TextField()
    password = fields.TextField()
    active = fields.BoolField()
```

and then initialize it:

```
user = User(username='rabbit', password='some-hash', active=True)
# or
```

```
user = User(doc_from_db)
assert user.username == 'rabbit'
assert user.password == 'some-hash'
assert user.active == True

You can get a dictionary of fields back (for saving) with to_dict:
assert user.to_dict() == doc_from_db
```

# 1.1.3 Fields

Fields are the validation/cleaning mechanic of **tinyobj**. Each is responsible for receiving a value (from the database, for example), cleaning it, and returning the cleaned value. A reference to the original value is not kept at this time, so reserializing the data for your specific use case is left as an exercise to the reader.

The base object is Field, of which TinyObj will detect subclasses to use as fields:

```
class tinyobj.fields.Field
  base for other fields

clean (value)
      clean a value, returning the cleaned value

initialize (value=())
      initialize returns a cleaned value or the default, raising ValueErrors as necessary.
```

#### **Subclasses**

```
tinyobj implements a number of fields to do validation, etc.
```

class tinyobj.fields.NoValidationField

doesn't validate at all, but returns the value passed (defaulting to None)

# 1.1.4 Contributing

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

You can contribute in many ways:

# **Types of Contributions**

#### **Report Bugs**

Report bugs at https://github.com/BrianHicks/tinyobj/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.

#### **Fix Bugs**

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

#### **Implement Features**

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

#### **Write Documentation**

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

#### **Submit Feedback**

The best way to send feedback is to file an issue at https://github.com/BrianHicks/tinyobj/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 :)

#### **Get Started!**

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

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

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

3. Create a branch for local development:

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

Now you can make your changes locally.

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4. When you're done making changes, check that your changes pass style and unit tests, including testing other Python versions with tox:

```
$ tox
```

To get tox, just pip install it.

5. 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
```

6. Submit a pull request through the GitHub website.

# **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, and 3.3, and for PyPy. Check https://travisci.org/BrianHicks/tinyobj under pull requests for active pull requests or run the tox command and make sure that the tests pass for all supported Python versions.

# **Tips**

To run a subset of tests:

```
$ py.test test/test_tinyobj.py
```

# 1.1.5 Credits

## **Development Lead**

• Brian Hicks <bri>drian@brianthicks.com>

#### **Contributors**

None yet. Why not be the first?

# 1.1.6 History

# 0.1.0 (2014-02-24)

• First release on PyPI.

# 1.2 Feedback

If you have any suggestions or questions about tinyobj feel free to email me at brian@brianthicks.com.

If you encounter any errors or problems with **tinyobj**, please let me know! Open an Issue at the GitHub https://github.com/BrianHicks/tinyobj main repository.

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