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Autolysis

An automated data analysis package.

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- Documentation
Installation

At the command line:

$ easy_install autolysis

Or, if you have virtualenvwrapper installed:

$ mkvirtualenv autolysis
$ pip install autolysis
To use Autolysis in a project:

```python
import autolysis
```
Contributing

• **Report Bugs** on the [issues page](https://github.com/gramener/autolysis/issues) with detailed steps to reproduce the bug, and your Anaconda version

• **Fix Bugs** on the [issues page](https://github.com/gramener/autolysis/issues) for anything tagged “bug”.

• **Implement features** on the [issues page](https://github.com/gramener/autolysis/issues) for anything tagged “feature”.

• **Write Documentation**, either as part of the official Autolysis docs, in docstrings, or in blog posts.

### 4.1 Setup

• The **master** branch holds the latest stable version.

• The **dev** branch has the latest development version

• Any other branches are temporary feature branches

Autolysis runs on Python 2.7+ and Python 3.4+ in Windows and Linux. To set up the development environment on Ubuntu, run this script:

```
```

To manually set up the development environment, follow these steps.

1. Install **Anaconda** (version 2.4 or higher)

2. Install `git` and `make`. On Windows, use `git` and `make`, or use cygwin.

3. Clone the **Autolysis repo**:
   ```
   git clone git@github.com:gramener/autolysis.git
cd autolysis
git checkout dev
   ```

4. Install development requirements, and also this branch in editable mode. This “installs” the autolysis folder in development mode. Changes to this folder are reflected in the environment:

```
pip install -r requirements.txt  # Base requirements
pip install -r requirements-dev.txt  # Additional development requirements
pip uninstall autolysis  # Uninstall prior autolysis repo
pip install -e  # Install this repo as autolysis
```

Any changes made to the `autolysis` repo will automatically be reflected when you import the package.

5. Install MySQL and PostgreSQL. Ensure that you can connect using the following SQLAlchemy strings:
4.2 Contributing to autolysis

1. Create a branch for local development to make local changes:

   `$ git checkout -b <branch-name>`

2. When you’re done making changes, check that your changes pass flake8 and the tests, as well as provide reasonable test coverage:

   `make release-test`

To run a subset of tests:

   `python -m unittest tests.test_types`

**Note:** This uses the `python.exe` in your PATH. To change the Python used, run:

   `export PYTHON=/path/to/python`  # e.g. path to Python 3.4+

3. Commit your changes and push your branch:

   `$ git add .`
   `$ git commit -m "Your detailed description of your changes."`
   `$ git push --set-upstream origin <branch-name>`

4. Submit a pull request through the code.gramener.com website.

5. To delete your branch:

   `git branch -d <branch-name>`
   `git push origin --delete <branch-name>`

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 2.7, 3.4 and 3.5

4.4 Release

When releasing a new version of Autolysis:

1. Test the dev branch by running:

   `python tests/test_types.py`
export PYTHON=/path/to/python2.7
make release-test
export PYTHON=/path/to/python3.4
make release-test
export PYTHON=/path/to/python3.5
make release-test

2. Build and upload the release:

   make release

3. Update the following and commit:
   - docs/HISTORY.rst – add release notes
   - README.rst – update the version number

4. Merge with master, create an annotated tag and push the code:

   git checkout master
   git merge dev
   git tag -a v1.x.x
   # Annotate with a one-line summary of features
   git push --follow-tags
5.1 Development Lead

• S Anand <s.anand@gramener.com>

5.2 Contributors

• S Kathirmani <kathir.mani@gramener.com>
• Pratap Vardhan <pratap.vardhan@gramener.com>
6.1 0.1.0 (2016-1-23)

- autolysis.types implements type detection
Indices and tables

- genindex
- modindex
- search