L Download

files

Project links

Statistics

142

project via

BigQuery 2

Meta

(BSD)

>=3.7

GitHub statistics:

Stars: 4001

Forks: 857

Open issues:

! Open PRs: 2

View statistics for this

Libraries.io **᠘**, or by

License: BSD License

Author: Sebastian

Requires: Python

Maintainers

Thiel, Michael Trier ☑

ByronBates

mtrier

nvie

yarikoptic

Sebastian.Th

Classifiers

Environment

Console

Intended Audience

OSI Approved :: **BSD License**

Operating System MacOS :: MacOS

Microsoft :: Windows

POSIX

Programming

Python o Python::3 • Python:: 3.7

• Python :: 3.8

• Python :: 3.9

Python:: 3.10 Python::3.11

Language

Typing

Typed

OS Independent

Developers

License

Development Status

Production/Stable

iel

using our public dataset on Google

Homepage

I started working on GitPython in 2009, back in the days when Python was 'my thing' and I had great plans with it. Of course, back in the days, I didn't really know what I was doing and this shows in

beyond repair.

gitoxide, an implementation of 'git' in Rust.

GitPython

contributed

month

REQUIREMENTS

variable.

them for you.

safety of users, or contributed

many places. Somewhat similar to Python this happens to be

'good enough', but at the same time is deeply flawed and broken

By now, GitPython is widely used and I am sure there is a good reason for that, it's something to be proud of and happy about.

Latest version

Released: Jul 10, 2023

The community is maintaining the software and is keeping it

relevant for which I am absolutely grateful. For the time to come I

am happy to continue maintaining GitPython, remaining hopeful that one day it won't be needed anymore.

excited about it, and am happy to finally have the tools and probably the skills to scratch that itch of mine: implement git in a way that makes tool creation a piece of cake for most. If you like the idea and want to learn more, please head over to

More than 15 years after my first meeting with 'git' I am still in

It provides abstractions of git objects for easy access of repository data often backed by calling the git command-line program. **DEVELOPMENT STATUS**

• ...there will be no feature development, unless these are

• ...there will be no bug fixes, unless they are relevant to the

...issues will be responded to with waiting times of up to a

high-level like git-porcelain, or low-level like git-plumbing.

This project is in maintenance mode, which means that

GitPython is a python library used to interact with git repositories,

The project is open to contributions of all kinds, as well as new maintainers.

GitPython needs the git executable to be installed on the system and available in your PATH for most operations. If it is not in your PATH, you can help GitPython find it by setting the GIT_PYTHON_GIT_EXECUTABLE=<path/to/git> environment

 Git (1.7.x or newer) • Python >= 3.7

The list of dependencies are listed in ./requirements.txt and

./test-requirements.txt. The installer takes care of installing

INSTALL

If you have downloaded the source code:

python setup.py install

pip install GitPython

http://pypi.python.org/pypi/GitPython. If you like to clone from source, you can do it like so:

git submodule update --init --recursive

./init-tests-after-clone.sh

Leakage of System Resources

yourself when you see fit.

periodically.

RUNNING TESTS

should get along fine with MINGW's.

install -r test-requirements.txt

Limitations

Both commands will install the required package dependencies.

A distribution package can be obtained for manual installation at:

git clone https://github.com/gitpython-developers/G

or if you want to obtain a copy from the Pypi repository:

destructors (as implemented in the __del__ method) still ran deterministically. In case you still want to use it in such a context, you will want to

search the codebase for __del__ implementations and call these

Another way assure proper cleanup of resources is to factor out

GitPython into a separate process which can be dropped

GitPython is not suited for long-running processes (like daemons) as it tends to leak system resources. It was written in a time where

Windows support See Issue #525.

have executed the ./init-tests-after-clone.sh script in the repository root. Otherwise you will encounter test failures. On Windows, make sure you have git-daemon in your PATH. For MINGW-git, the git-daemon.exe exists in

Git\mingw64\libexec\git-core\|; CYGWIN has no daemon, but

Ensure testing libraries are installed. In the root directory, run: pip

Important: Right after cloning this repository, please be sure to

To lint, run: pre-commit run --all-files To typecheck, run: mypy -p git To test, run: pytest

different supported python versions upon submitting a pull request (or on each push if you have a fork with a "main" branch and actions enabled).

Please have a look at the contributions file.

Configuration for flake8 is in the ./.flake8 file.

./pyproject.toml.

Contributions

INFRASTRUCTURE

Issue Tracker

User Documentation

Questions and Answers

How to make a new release

file was updated

Commit everything

• Run make release

Configurations for mypy, pytest and coverage.py are in

The same linting and testing will also be performed against

• Post reproducible bugs and feature requests as a new issue. Please be sure to provide the following information if posting bugs: • GitPython version (e.g. import git;

git.__version__)

Update/verify the version in the VERSION file

Please post on stackoverflow and use the gitpython tag

Python version (e.g. python --version)

• The encountered stack-trace, if applicable

• Update/verify that the doc/source/changes.rst changelog

Close the milestone mentioned in the changelog and create a

incrementing the patch level, and possibly by appending –

• Run git tag -s <version> to tag the version in Git

new one. Do not reuse milestones by renaming them.

dev. Probably you want to git push once more.

Please only use releases from pypi as you can verify the

This script shows how to verify the tarball was indeed created by

curl https://files.pythonhosted.org/packages/09/bc/ curl https://files.pythonhosted.org/packages/09/bc/ gpg --verify gitpython-signature.asc gitpython.whl

gpg: Signature made Fr 4 Sep 10:04:50 2020 CST

gpg: Good signature from "Sebastian Thiel (YubiKey

using RSA key 27C50E7F590947D72

aka "Sebastian Thiel (In Rust

• set the upcoming version in the VERSION file, usually be

• Enough information to allow reproducing the issue

Note that what follows is deprecated and future releases won't be signed anymore. More details about how it came to that can be found in this issue.

respective source tarballs.

the authors of this project:

which outputs

gpg:

using:

it:

How to verify a release (DEPRECATED)

You can verify that the keyid indeed matches the release-signature key provided in this repository by looking at the keys details: gpg --list-packets ./release-verification-key.asc

You can verify that the commit adding it was also signed by it

git show --show-signature ./release-verification-k

If you would like to trust it permanently, you can import and sign

> sign > save

gpg --import ./release-verification-key.asc

gpg --edit-key 4C08421980C9

Projects using GitPython

PyDriller

Prowl

Buster

git-ftp

Git-Pandas

PyGitUp

PyJFuzz

GitViper

• Git Gud

LICENSE

Help

Installing packages 🖸

Uploading packages 🖸

User guide 🛂

Project name retention 🖸

FAQs

Contributing to PyPI

Bugs and feedback

Contribute on GitHub

Translate PyPI 🛂

Omniwallet

New BSD License. See the LICENSE file.

Loki

Kivy Designer

Python Taint

Status: Service Under Maintenance 🖸 Developed and maintained by the Python community, for the Python community. Donate today!

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