Contribution workflow

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Communicating about pyMOR on GitHub

- ► Discussions
  - ► How to?
  - ► Should I open a PR to add this?
  - ► Why is my code not working as expected?
  - ► Feature requests
- ► Issues
  - ► Bug reports
  - ► Things that are missing
  - ► Reminders for things that should be done
- ► Pull requests
  - ► New features
  - ► Bug fixes
  - ► Changes to existing functionality

Contribution workflow

Contributing to pyMOR in 10 steps

1. Fork the pyMOR repository.
2. Checkout a new branch in your fork.
3. Create a virtual environment (python3 -m virtualenv venv).
4. ***Add your code here (now)***
5. Add tests for your code (maybe also a demo or even a tutorial) and run the tests locally
6. Commit and push your changes
7. Open a pull request on GitHub.
8. Add a label (pr:change, pr:deprecation, pr:fix, pr:new-feature, pr:removal).
9. Ask for reviews.
10. Make sure that the CI pipeline passes (see next slide).

Continuous Testing / Integration Setup

Some of the components of pyMOR's CI pipeline

► Linter checks.

► Checks for autosquashing of commits, PR labels, and merge conflicts.

► Tests in src/pymortests/ and demos in src/pymordemos/ are executed in several different settings.

► Tutorials in docs/source/ are used as additional tests.

► Documentation (available for inspection under https://docs.pymor.org/list.html) and wheels are built.

► Installation from different sources (wheels, from source, docker) is performed.

Important!

Important things to remember when contributing

► Format your code according to PEP8 (ruff and pre-commit hooks can help you).

► Document your code properly (to keep the good quality of our API Reference).

► Write useful commit messages, give keywords if possible, for instance [parameters] fix Mu.to_numpy for empty Mu

► Provide a meaningful description for your pull request.

► Make sure that all tests pass (otherwise your pull request cannot be merged).

Contributor acknowledgement

Acknowledgement for your contributions

- ▶ Every contributor will be mentioned on GitHub and in release notes.
- ▶ Copyright holders are "pyMOR developers and contributors".
- ▶ Everybody can become a main developer.
    - ▶ Guide the future development of pyMOR.
    - ▶ Direct push access to the GitHub repository.

Useful links

- ► pyMOR homepage: https://pymor.org/
- ► pyMOR documentation: https://docs.pymor.org/latest/index.html
- ► Developer documentation: https://docs.pymor.org/latest/developer_docs.html
- ► GitHub repository: https://github.com/pymor/pymor
- ► Discussions: https://github.com/pymor/pymor/discussions
- ► Issues: https://github.com/pymor/pymor/issues
- ► Pull requests: https://github.com/pymor/pymor/pulls

Thank you for your attention!