



MAX PLANCK INSTITUTE  
FOR DYNAMICS OF COMPLEX  
TECHNICAL SYSTEMS  
MAGDEBURG



COMPUTATIONAL METHODS IN  
SYSTEMS AND CONTROL THEORY

# pyMOR Contribution Workflow

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1<sup>st</sup> pyMOR School  
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## 1. GitHub

## 2. License

## 3. Contributing

- Reporting issues

- Development environment

- Documentation and testing

- GitHub pull requests

- Attribution

- Becoming a main developer



# pyMOR is available on GitHub



## You can contribute to it



# And not just to pyMOR:

numpy / numpy



257,277



467



11,939



3,895



Issues 1,712



Pull requests 212



Actions



Projects 3



Wiki



Security



Insights

The fundamental package for scientific computing with Python. <https://www.numpy.org/>

numpy

python

21,435 commits

19 branches

159 releases

827 contributors

BSD-3-Clause

scipy / scipy



129,636



319



6,335



2,975



Issues 1,078



Pull requests 238



Projects 0



Wiki



Security



Insights

Scipy library main repository <https://scipy.org/scipylib/>

21,894 commits

20 branches

108 releases

768 contributors

BSD-3-Clause

python / cpython



1,096



27,000



11,880



Pull requests 963



Actions



Security



Insights

The Python programming language <https://www.python.org/>

105,597 commits

7 branches

0 packages

399 releases

1,039 contributors

View license



- pyMOR uses **2-clause BSD license**<sup>1</sup>
- copyright holders are “pyMOR developers and contributors”
- as a user, you are agreeing to the license
- as a contributor, you are agreeing to your contribution being published under pyMOR’s license (and confirming that you have copyright over your code or permission from the copyright holder)<sup>2</sup>

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<sup>1</sup><https://opensource.org/licenses/BSD-2-Clause>

<sup>2</sup><https://github.com/pymor/pymor/blob/master/CONTRIBUTING.md#license>



- GitHub issues<sup>3</sup>: reporting bugs, feature requests, etc.
  - good place to find what to contribute
- pymor-dev mailing list<sup>4</sup>: for discussions, questions, etc.

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<sup>3</sup><https://github.com/pymor/pymor/issues>

<sup>4</sup><http://listserv.uni-muenster.de/mailman/listinfo/pymor-dev>



- create a virtual environment (using pip or conda)
- make an editable installation of pyMOR using `pip install -e .` (see `README.md`<sup>5</sup> for more details)

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<sup>5</sup><https://github.com/pymor/pymor/blob/master/README.md>



README.md:

- `make doc` to build Sphinx documentation
- `make test` to run all tests
- `make full-test` to include style checks
- `py.test src/pymortests/the_module.py` to run specific tests
- `flake8` for style checks (usually done by an IDE)





- fork<sup>6</sup> the pyMOR GitHub repository
- work in a new branch
- create a pull request<sup>7</sup>

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<sup>6</sup><https://help.github.com/en/articles/working-with-forks>

<sup>7</sup>[https:](https://help.github.com/en/articles/creating-a-pull-request-from-a-fork)

[//help.github.com/en/articles/creating-a-pull-request-from-a-fork](https://help.github.com/en/articles/creating-a-pull-request-from-a-fork)



- `AUTHORS.md`<sup>8</sup>
- Zenodo<sup>9</sup>

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<sup>8</sup>`https:`

`//github.com/pymor/pymor/blob/master/CONTRIBUTING.md#attribution`

<sup>9</sup>`https://zenodo.org/record/3416527`



- pyMOR main developer = owner of the pyMOR GitHub organization<sup>10</sup>
- see CONTRIBUTING.md<sup>11</sup> for details

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<sup>10</sup><https://github.com/pymor>

<sup>11</sup><https://github.com/pymor/pymor/blob/master/CONTRIBUTING.md#license>