

eigene Vivek/DiffDRR

github.com/eigenvivek/DiffDRR

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eigenvivek Merge pull request #62 from eigen...9b73d442 days ago249 commits

.github/workflows	Rename python-package-conda.yml to CI.yml	12 days ago
diffdrv	Fix GIF whitespace	12 days ago
experiments	Add figures for NM	2 days ago
figures	Add figures for NM	2 days ago
notebooks	Add example of failure to converge	2 days ago
test	Add tests for two modules	14 days ago
.gitattributes	Create .gitattributes	2 months ago
.gitignore	Unhide data folder	25 days ago
LICENSE	Initial commit	2 months ago
Makefile	Rename module src->diffdrv	22 days ago
README.md	Update	2 days ago
environment.yml	Change order of channels	26 days ago
setup.py	Rename module src->diffdrv	22 days ago
tox.ini	Initial commit	2 months ago

README.md

DiffDRR

Paper [arxiv.2208.12737](#)License [MIT](#)CI [passing](#)Code style [black](#)

DiffDRR is a package for differentiable DRR synthesis and optimization

- Overview
- Installation Guide

About

Auto-differentiable digitally reconstructed radiographs in PyTorch.

medical-imagingraytracingdifferentiable-programmingdigitally-reconstructed-radiograph

ReadmeMIT license8 stars3 watching0 forks

Releases

No releases published
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Packages

No packages published
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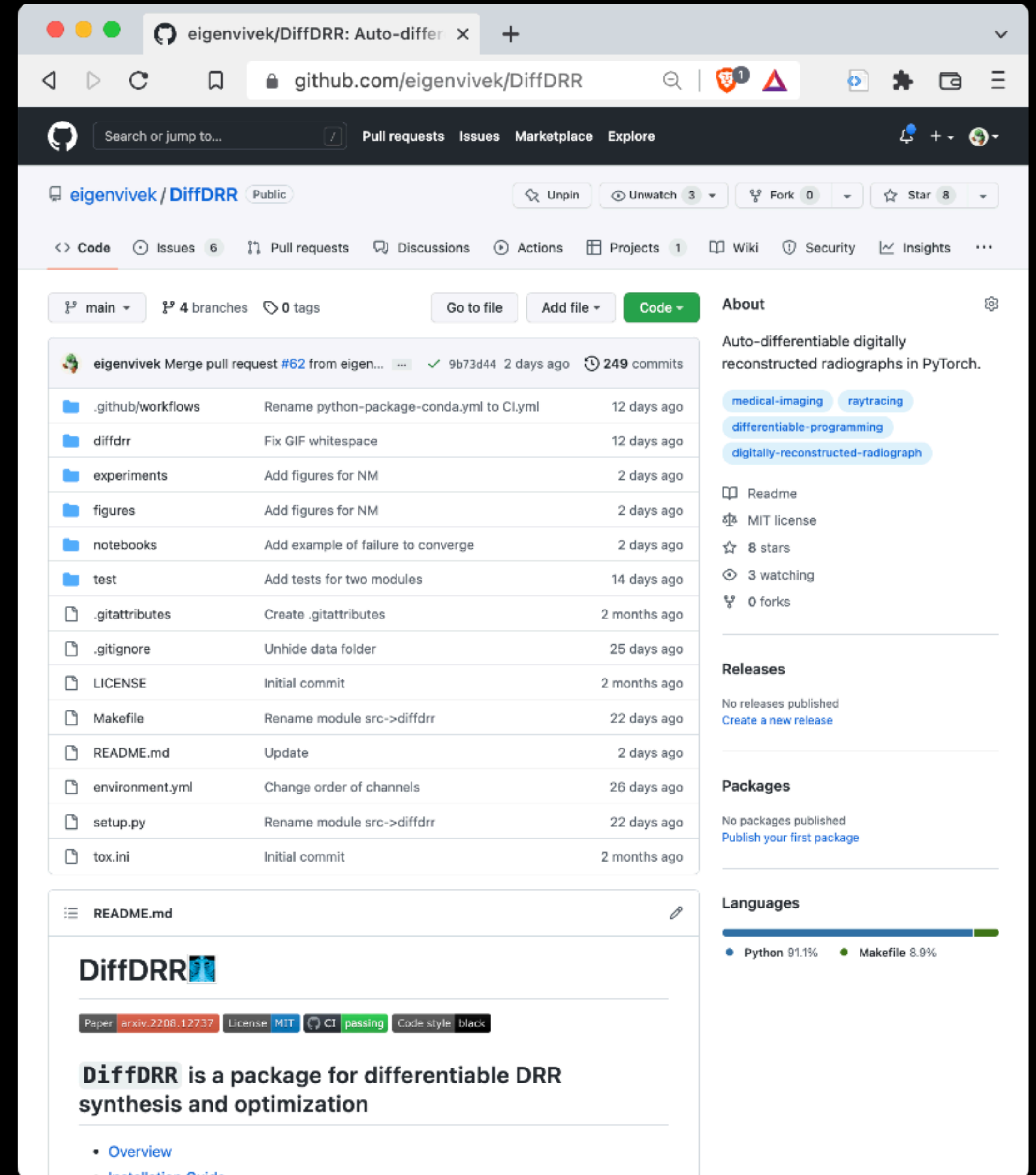
Languages

Python 91.1%Makefile 8.9%

Why use DiffDRR?

 [eigenvivek/DiffDRR](https://github.com/eigenvivek/DiffDRR)

- GPU-accelerated
- Auto-differentiable
- Deep learning-compatible



The screenshot shows the GitHub repository page for `eigenvivek/DiffDRR`. The repository is public and has 8 stars, 3 watchers, and 0 forks. It contains 4 branches and 0 tags. The repository description is "Auto-differentiable digitally reconstructed radiographs in PyTorch." The repository includes a README, MIT license, and 8 stars. The repository also has a "Releases" section with no releases published and a "Packages" section with no packages published. The repository is primarily Python (91.1%) and Makefile (8.9%).

The repository structure is as follows:

File/Folder	Description	Last Commit
<code>.github/workflows</code>	Rename python-package-conda.yml to CI.yml	12 days ago
<code>diffdr</code>	Fix GIF whitespace	12 days ago
<code>experiments</code>	Add figures for NM	2 days ago
<code>figures</code>	Add figures for NM	2 days ago
<code>notebooks</code>	Add example of failure to converge	2 days ago
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<code>tox.ini</code>	Initial commit	2 months ago

The README.md file contains the following information:

DiffDRR

Paper: [arxiv:2208.12737](https://arxiv.org/abs/2208.12737) License: MIT CI: passing Code style: black

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DRRs are used to solve imaging problems...