

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

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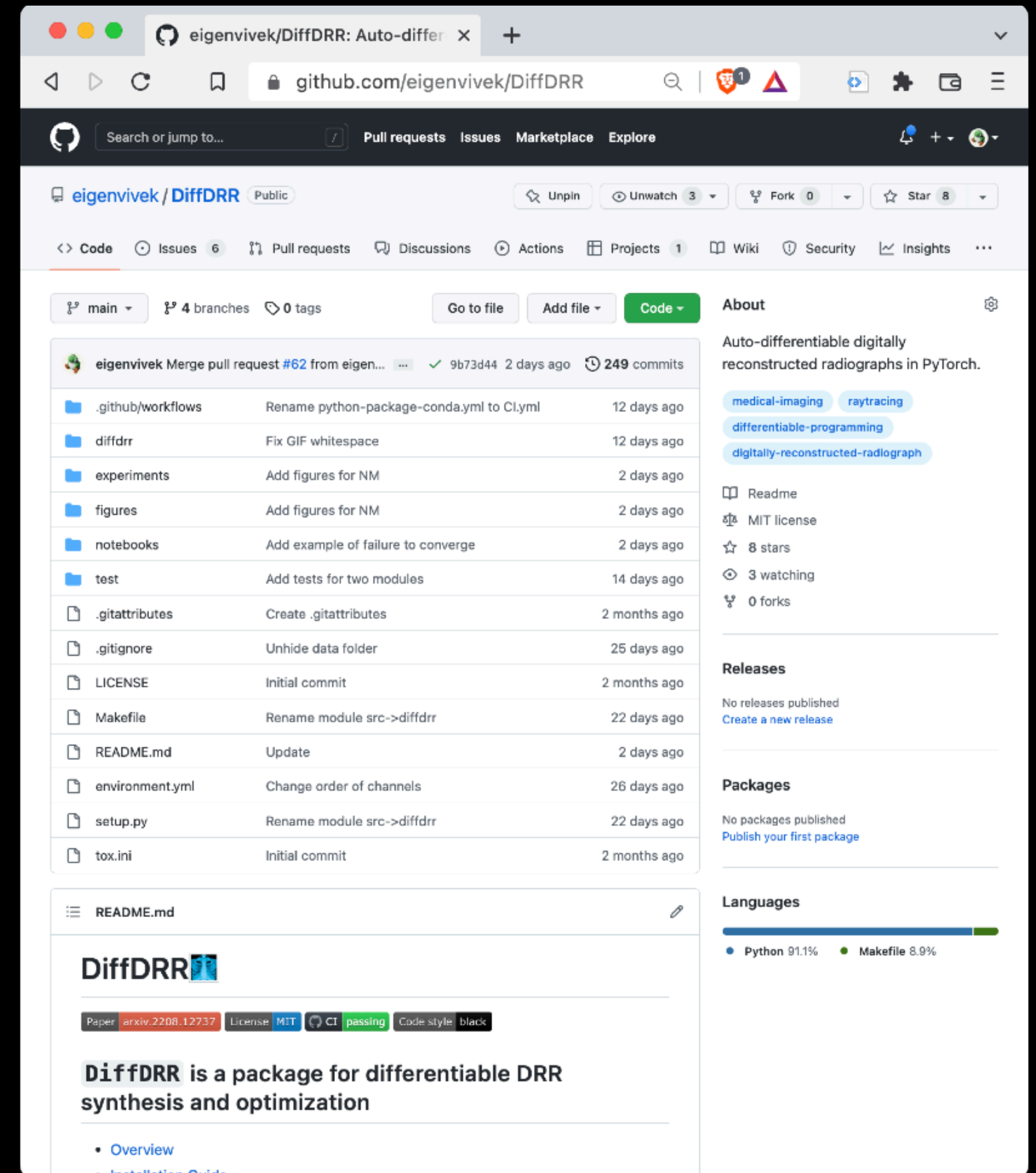
Languages

Python91.1%Makefile8.9%

Why use DiffDRR?

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

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



The screenshot shows the GitHub repository page for `eigenivivek/DiffDRR`. The repository is public and has 8 stars, 3 watchers, and 0 forks. It contains 4 branches and 0 tags. The file list shows various folders and files, including `.github/workflows`, `diffdrv`, `experiments`, `figures`, `notebooks`, `test`, `.gitattributes`, `.gitignore`, `LICENSE`, `Makefile`, `README.md`, `environment.yml`, `setup.py`, and `tox.ini`. The `README.md` file is selected, showing the title `DiffDRR` and a description: "DiffDRR is a package for differentiable DRR synthesis and optimization". The repository also includes a paper link (arxiv.2208.12737), a license (MIT), and CI status (passing). The right sidebar shows the repository's description: "Auto-differentiable digitally reconstructed radiographs in PyTorch." and a list of tags: `medical-imaging`, `raytracing`, `differentiable-programming`, and `digitally-reconstructed-radiograph`.

DRRs are used to solve imaging problems...