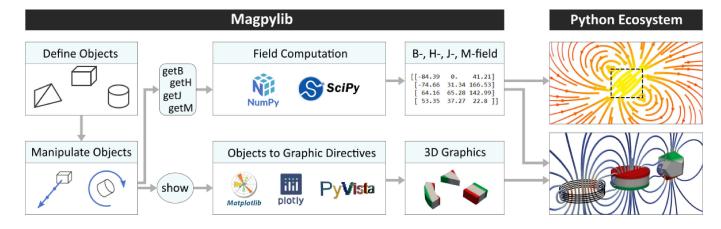
The Magpylib Documentation

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Magpylib is an **open-source Python package** for calculating static **magnetic fields** of magnets, currents and other sources. It uses **explicit expressions**, solutions to the macroscopic magnetostatic problems, implemented in **vectorized** form which makes the computation **extremely fast**. Make use of the open-source Python ecosystem for spectacular visualization.

How it works



In Magpylib, **sources** (magnets, currents, ...) and **observers** (sensors, position grids, ...) are created as Python objects with position and orientation attributes. These objects can be **grouped** and **moved** around. The system can be **viewed** graphically through various backends. The **magnetic field** is computed in the observer reference frame. Magpylib collects all inputs, and vectorizes the computation for maximal performance.

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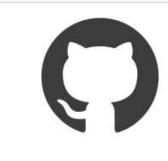
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Changelog

- 5.0.1 2024-04-12
- 5.0.0 2024-03-13
- 4.5.1 2023-12-28
- 4.5.0 2023-12-13
- 4.4.1 2023-11-09
- 4.4.0 2023-09-03
- 4.3.0 2023-06-25
- 4.2.0 2023-01-27
- 4.1.2 2023-01-15
- 4.1.1 2022-08-11
- 4.1.0 2022-08-08
- 4.0.4 2022-06-09
- 4.0.3 2022-05-13
- 4.0.2 2022-05-04
- 4.0.1 2022-04-29
- 4.0.0 2022-04-14
- 3.0.5 2022-04-26
- 3.0.4 2022-02-17
- 3.0.3 2022-02-17
- 3.0.2 2021-06-27

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3.0.0 - 2021-06-27

2.3.0b - 2020-01-17

2.1.0b - 2019-12-06

2.0.0b - 2019-11-29

1.2.1b0 - 2019-07-31

<u>1.2.0b0 - 2019-07-16</u>

1.1.1b0 - 2019-06-25

<u>1.1.0b0 - 2019-06-14</u>

1.0.2b0 - 2019-05-29

<u>1.0.1b0 - 2019-05-28</u>

1.0.0b0 - 2019-05-21

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