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SciPy provides fundamental numerical algorithms for scientific computing: statistics, numerical optimization, linear algebra, special functions, integration, interpolation, signal and image processing, and more. SciPy is a foundational building block for scientific and numerical computing in Python.

## USE CASES

The EHT Collaboration is making significant use of SciPy's optimization functionality in their black hole imaging pipelines.

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Netflix uses SciPy for statistical analysis, machine learning, and operations.

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SciPy is used by over 40% of machine learning projects on GitHub.

## PLANNED FEATURES

- + We would like SciPy modules to be able to support execution on GPUs, via use of CuPy. The statistics, signal processing and optimization modules are good candidates to start with.
- + Speed improvements and the ability to parallelize algorithms are beneficial to most science domains and use cases; we want to expand support for multiprocessing and Python compilers like Pythran and Numba.
- + We would like to provide binary installers (wheels) for new hardware platforms - in particular ARM64, macOS M1 and PowerPC.

## PROJECT NEEDS

A community manager (part-time)	\$40,000
A new website to replace the current scipy.org	\$30,000
GPU support for SciPy submodules	\$75,000



For more information on SciPy, including our governance structure and project roadmap, please visit

<https://scipy.org/>

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