

Scientific Python

By maintainers, for maintainers



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Pamphile T. Roy



tupui

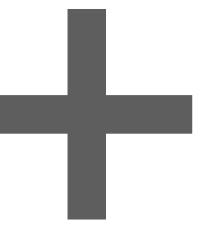


PamphileRoy



Quansight

NUMFOCUS
OPEN CODE = BETTER SCIENCE



Scientific Python

Community | developed
| owned



SPEC as Scientific PEP

<https://scientific-python.org/specs>

- >>> Scientific Python Ecosystem Coordination documents
- >>> Community guidelines and recommendations
- >>> Steering committee
- >>> Ideas?

SPEC 0 - Minimum Supported Versions

SPEC 1 - Lazy Loading for Submodules

SPEC 2 - API Dispatch

SPEC 3 - Accessibility

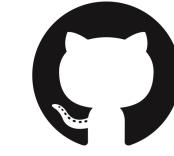
SPEC 4 - Typing

SPEC 5 - Math formatting

SPEC 6 - Common CLI for developers

A modern Theme

scientific-python/scientific-python-hugo-theme



>>> Hugo template

>>> Fast

>>> Flexible

>>> Landing page

>>> Developers needed

Install Documentation Download Community About Us Contribute



Fundamental algorithms for scientific computing in Python

GET STARTED

Join us at SciPy 2022 July 11th - 17th! 2022-06-27

FUNDAMENTAL ALGORITHMS
SciPy provides algorithms for optimization, integration, interpolation, eigenvalue problems, algebraic equations, differential equations, statistics and many other classes of problems.

BROADLY APPLICABLE
The algorithms and data structures provided by SciPy are broadly applicable across domains.

FOUNDATIONAL
Extends NumPy providing additional tools for array computing and provides specialized data structures, such as sparse matrices and k-dimensional trees.

PERFORMANT
SciPy wraps highly-optimized implementations written in low-level languages like Fortran, C, and C++. Enjoy the flexibility of Python with the speed of compiled code.

EASY TO USE
SciPy's high level syntax makes it accessible and productive for programmers from any background or experience level.

OPEN SOURCE
Distributed under a liberal BSD license, SciPy is developed and maintained publicly on GitHub by a vibrant, responsive, and diverse community.

Install Documentation Learn Community About Us Contribute



The fundamental package for scientific computing with Python

GET STARTED

POWERFUL N-DIMENSIONAL ARRAYS
Fast and versatile, the NumPy vectorization, indexing, and broadcasting concepts are the de-facto standards of array computing today.

NUMERICAL COMPUTING TOOLS
NumPy offers comprehensive mathematical functions, random number generators, linear algebra routines, Fourier transforms, and more.

INTEROPERABLE
NumPy supports a wide range of hardware and computing platforms, and plays well with distributed, GPU, and sparse array libraries.

PERFORMANT
The core of NumPy is well-optimized C code. Enjoy the flexibility of Python with the speed of compiled code.

EASY TO USE
NumPy's high level syntax makes it accessible and productive for programmers from any background or experience level.

OPEN SOURCE
Distributed under a liberal BSD license, NumPy is developed and maintained publicly on GitHub by a vibrant, responsive, and diverse community.

Calendars at a glance

<https://scientific-python.org/calendars>

>>> Projects calendars

< > today

JUL 17 – 23, 2022

month week list

>>> Add yours!

Monday	July 18, 2022
9:00am - 10:00am	● NumPy Documentation Team meeting
Tuesday	July 19, 2022
3:00pm - 4:00pm	● scikit-image Community Call (Americas/Oceania)
Wednesday	July 20, 2022
11:00am - 12:00pm	● NumPy Community Call
Thursday	July 21, 2022
10:00am - 11:00am	● NetworkX Community Call (Americas/Oceania)
9:00pm - 10:00pm	● Weekly Matplotlib Call
Friday	July 22, 2022
7:00pm - 8:00pm	● Monthly SciPy New Contributor Meeting

Know your audience with Analytics

<https://views.scientific-python.org>

>>> Lightweight: Plausible

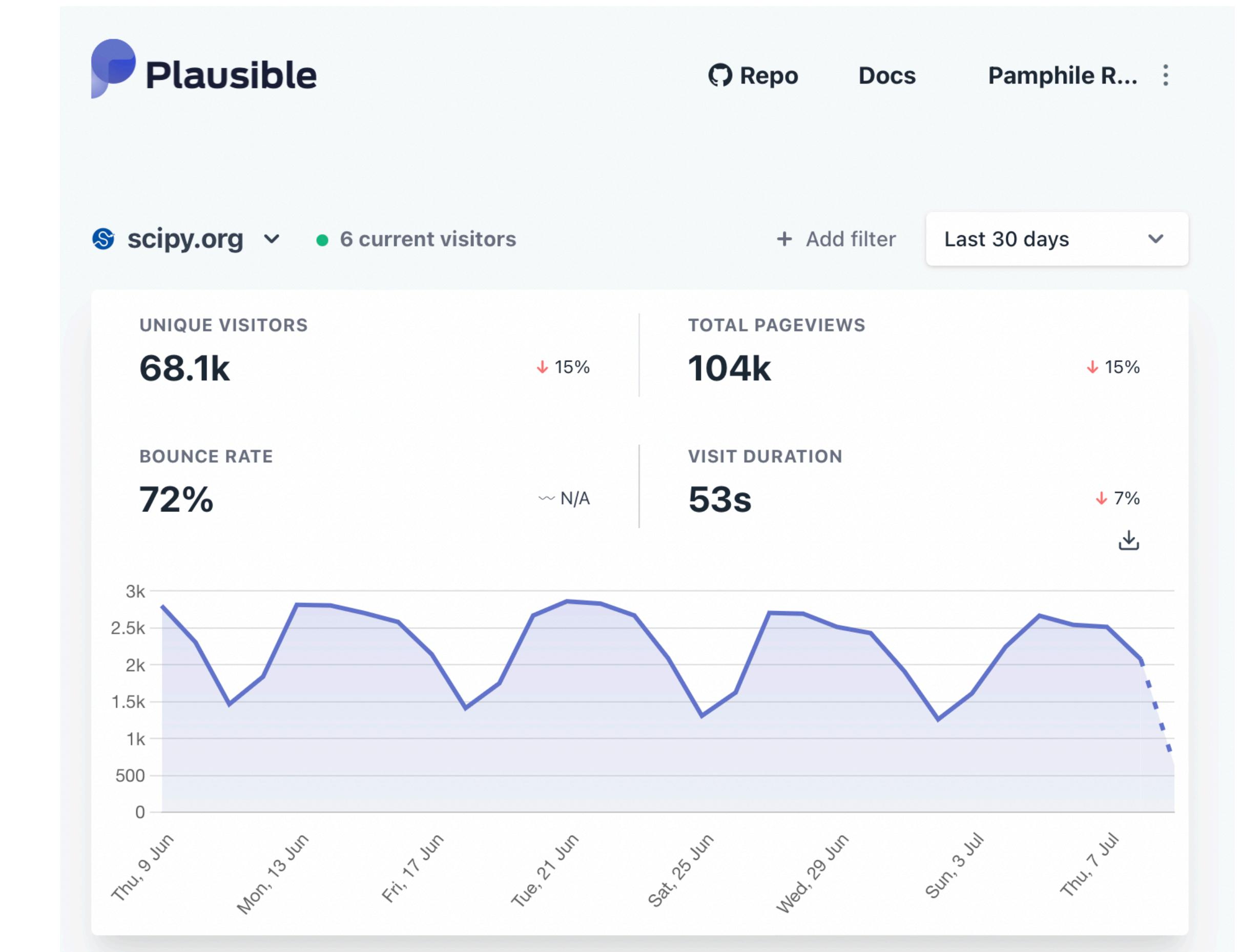
>>> Self hosted server

>>> Open to projects

>>> Prioritize

... Doc improvements

... Developments



Tell a story on the Blog

<https://blog.scientific-python.org>

[Home](#) [Blog](#) [Discussion Forum](#) 

Scientific Python Blog



>>> Community blog

... Use case

... Tutorial

... Achievements

>>> Community owned

[Submit a post](#)

We welcome contributions from all community members.

[Volunteer to review](#)

Learn how you can help the community grow and become a member of the team.

Recent Posts

[GSOC 2022: NETWORKX VF2++ IMPLEMENTATION](#)

 Konstantinos Petridis  June 9, 2022

 #gsoc #networkx

[SCIPY INTERNSHIP: 2021-2022](#)

 Smit Lunagariya  June 4, 2022

 #scipy #internship #meson-build #uarray

[NUMPY CONTRIBUTOR SPOTLIGHT: MUKULIKA PAHARI](#)

 Danuta Dzierżanowska  April 12, 2022

 #contributor-spotlight #numpy

[A QUICK TOUR OF QMC WITH SCIPY](#)

Discuss + Discord = (Mailing List)

<https://discord.gg/vur45CbwMz>

<https://discuss.scientific-python.org>

>>> 160 people 

>>> Propose ideas 

>>> Support

>>> Collaborate

>>> Maintain



Dev Stats

<https://devstats.scientific-python.org>

>>> Project health

>>> Velocity

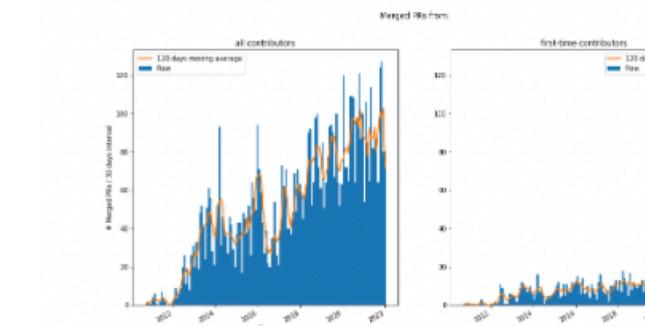
>>> Support

>>> Sustainability

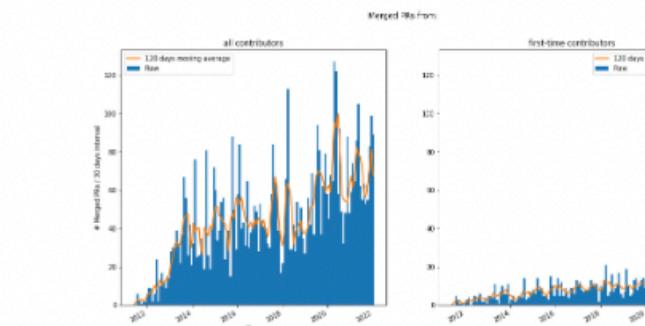
>>>  Ideas? Better even,
volunteer time!

Project Statistics

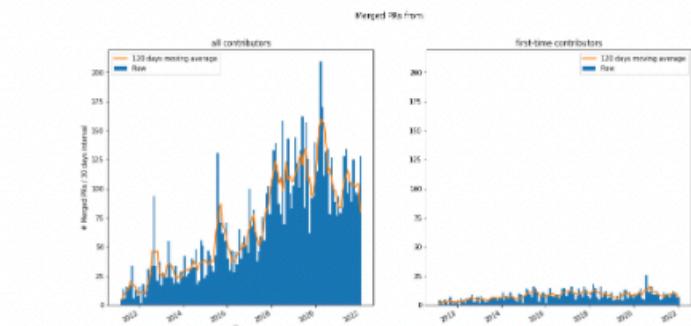
This website tracks the recent development history of the Scientific Python ecosystem.



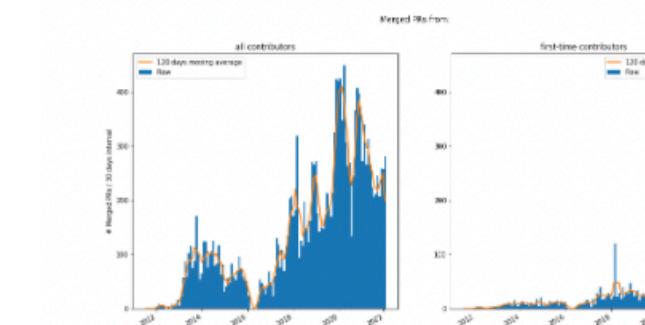
NumPy stats



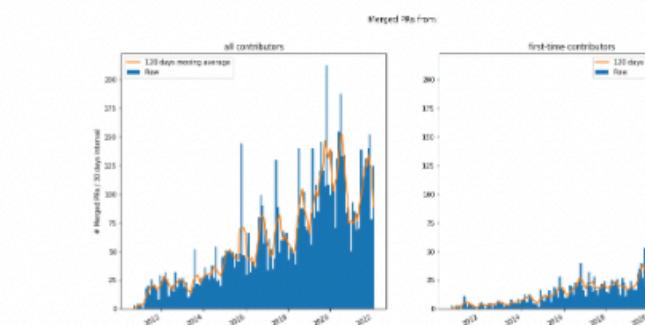
SciPy stats



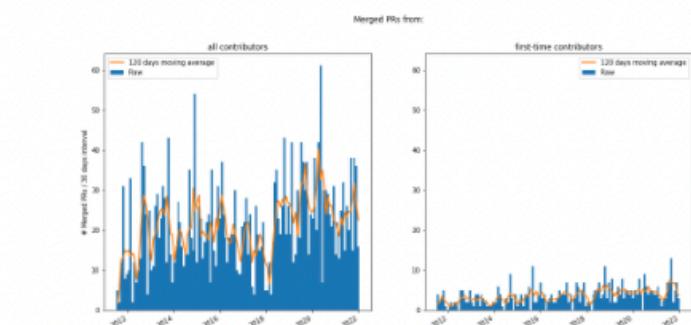
Matplotlib stats



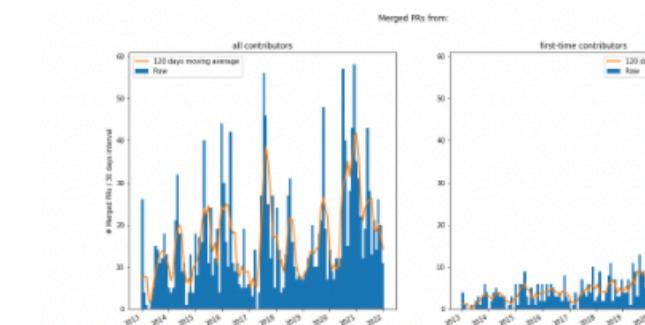
Pandas stats



scikit-learn stats



scikit-image stats

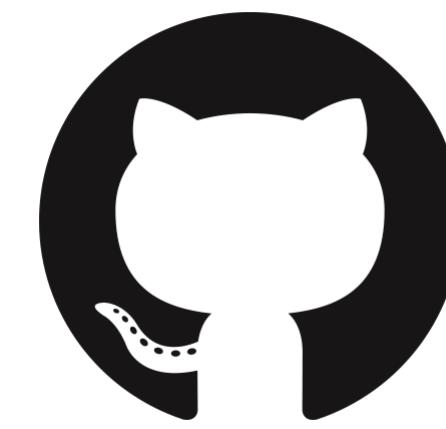


NetworkX stats

You have a Voice

Not just Python!

Hugo, CSS, Designers, DevOps, Authors, Moderators, Active participants...



scientific-python

Thank You!

Any Ideas?

We all are Scientific Python



scientific-python.org



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