

Open Source  
Community



# Purpose of the project

- Become the **fundamental high-level building block** for practical **data analysis in Python**.
- Its **broader goal** is becoming the **most powerful** and **flexible open source data analysis** / manipulation tool available in **any language**.

# Locations/Technologies

- Project is hosted on GitHub for community contributions.  
<https://github.com/pandas-dev/pandas>
- Besides Python, it relies on the dependencies:
  - NumPy (Large, multi-dimensional arrays, matrices and operations on these arrays)
  - python-dateutil (extensions to standard datetime module)
  - pytz (cross platform timezone calculations)

# License/Bureaucracy

- **BSD-3-Clause license** (allows for the redistribution and use of the source and binary software, with or without modification, but requires copyright notice)
- **Contribution steps:**
  1. **Reporting GitHub issues** (bug reports and enhancement requests)
  2. **Assign issue** (labels "Docs" or "good first issue" are better for beginners)
  3. **Submit PR** (fork the repo, create a feature branch, make changes, and submit a pull request)
  4. **PR review** (reference issues, add tests, and ensure CI checks pass)













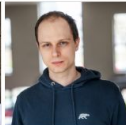






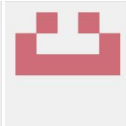

# Project governance

- BDFL (Benevolent Dictator for Life) is currently Wes McKinney
- The Core Team will consist of Project Contributors who have contributed with quality and quantity over at least one year
- Besides the code contributors, pandas also have workgroups for Code of Conduct, Finance, Infrastructure and Communications

# Reaching project members

- More than 2000 volunteers
- Each workgroup can be contacted independently

## Active maintainers

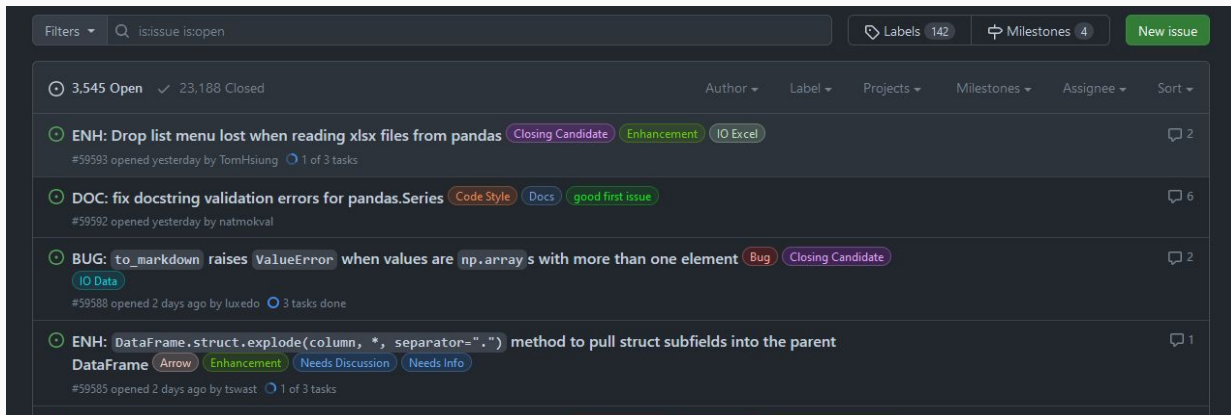
						
Joris Van den Bossche joriscvandenbossche	Tom Augspurger TomAugspurger	Jeff Reback jreback	William Ayd WillAyd	Matthew Roeschke mroeschke	jbrockmendl jbrockmendl	Marc Garcia datapythonista
						
Simon Hawkins simonjayhawkins	Terji Petersen topper-123	Ali McMaster alimcmaster1	Kevin Sheppard bashtage	Irv Lustig Dr-Irv	Marco Edward Gorelli MarcoGorelli	Richard Shadrach rshadrach
						
Patrick Hoefler phofl	JHM Darbyshire attack68	Fangchen Li fangchenli	Torsten Wörtwein twoertwein	Thomas Li lithomas1	Luke Manley lukemanley	Noa Tamir noatamir

# Roadmap

- Used to set large goals for the project's development
- 4 categories of PDEPs (Pandas Enhancement Proposals): Under discussion, Accepted, Implemented and Rejected. And also points pending to be categorized
- Examples are Change default of dropna to False and Dedicated string data type for pandas 3.0

# How to Contribute

Everyone can contribute! With bug reports, enhancement requests, addressing issues on Panda's GitHub page or contributing to the documentation.





# Project funding

NUMFOCUS

**2023 Open-source  
Project Support**

By the numbers:

**61**

Sponsored Projects

**80**

Affiliated Projects

**2,000**

Project Contributors



**\$476,275**

Project Restricted  
Donations

**\$6,329,975**

Project Allocations  
for Development &  
Community  
Management

**\$2,014,504**

Project Grant Funding  
Awarded

## Summary

pandas One-time

+ Add

A one-time donation to pandas

pandas Monthly

+ Add

A recurring monthly donation to  
pandas

**Total (USD)**

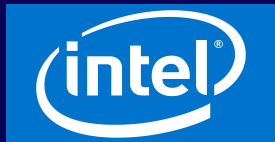
**\$ --**

The total must be at least \$0.50.

# Project funding

*"The funding is used for general maintenance, improve extension types, and an efficient string type."*

## Institutional partners



## Sponsors



Chan  
Zuckerberg  
Initiative

