

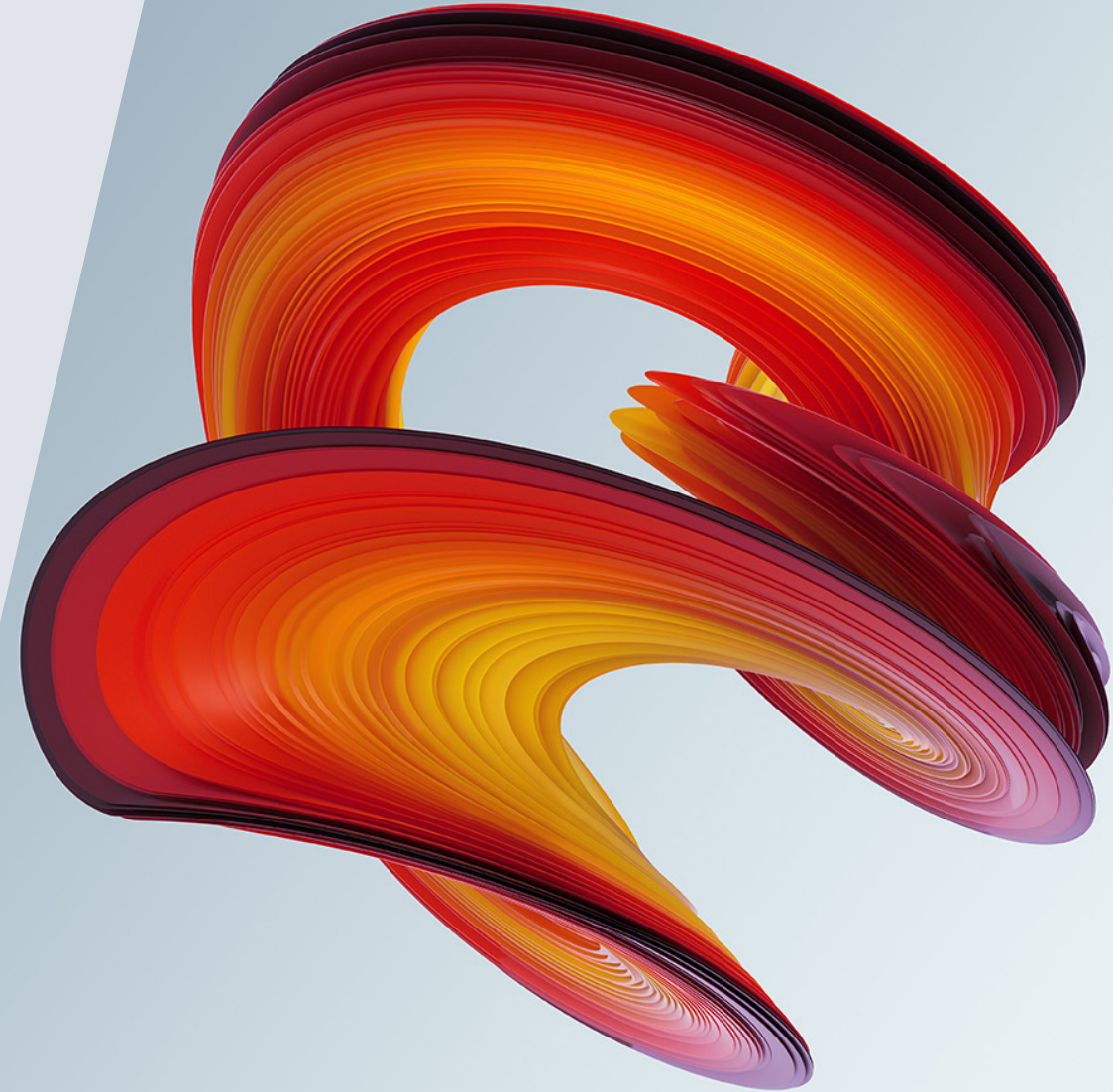
Gurobi in the Python Ecosystem

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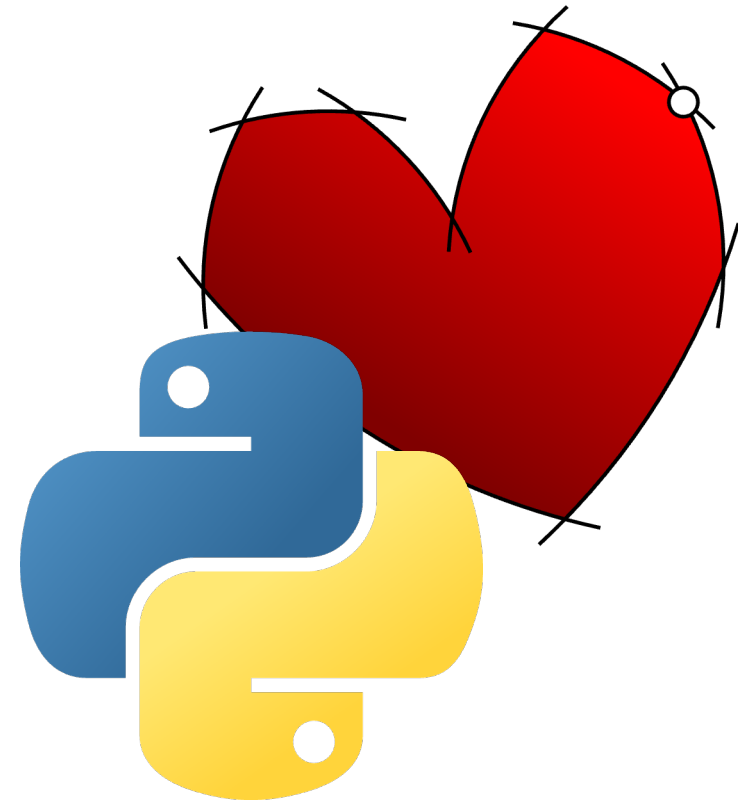
Why Python?

- Very popular, mature environment
- High adoption rate in last 10+ years
- Graduates speak Python
- De facto standard in data science space
- Standardized IT workflows for integrations, updates, deployments, etc.



Gurobi has a heart for Python

- Gurobi’s Python API “**gurobipy**” is part of the product from the start
- *Past*: Initially thought as an analogue to CPLEX’ interactive shell
- *Present*: Powerful, popular, self-standing Python package
- gurobipy is among the top 1% most downloaded packaged on pypi.org!
- We continue to modernize and improve with every release!
- `pip install gurobipy`



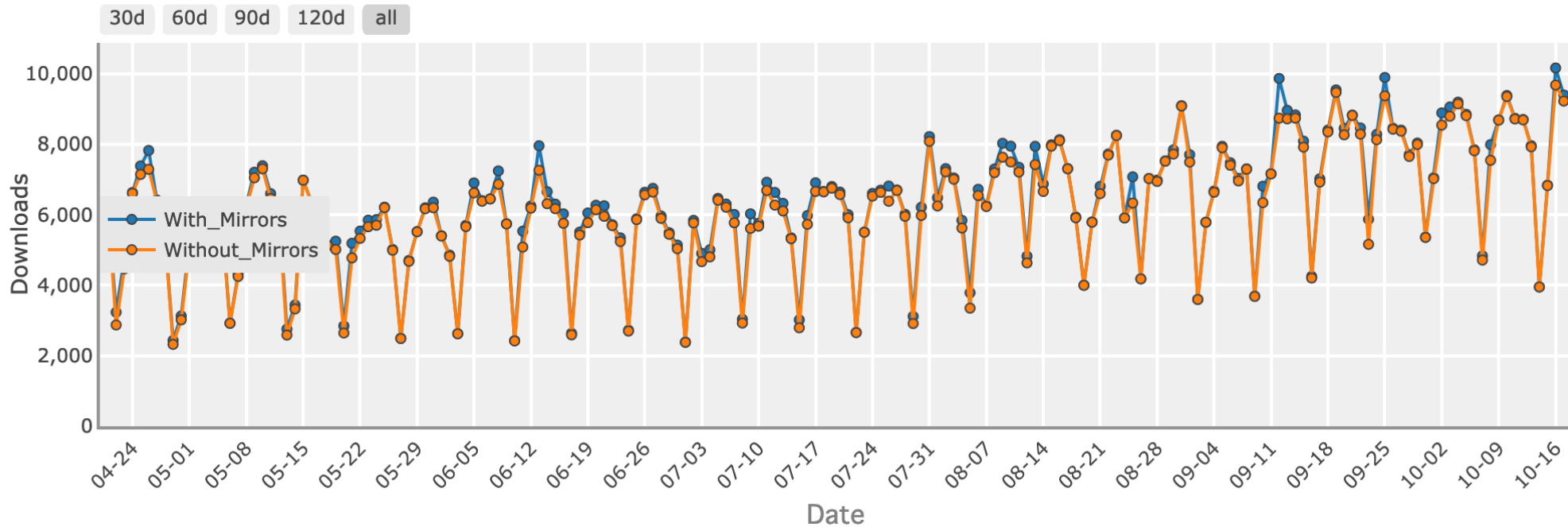
“Show me the numbers!”

Downloads last day: 9,221

Downloads last week: 54,995

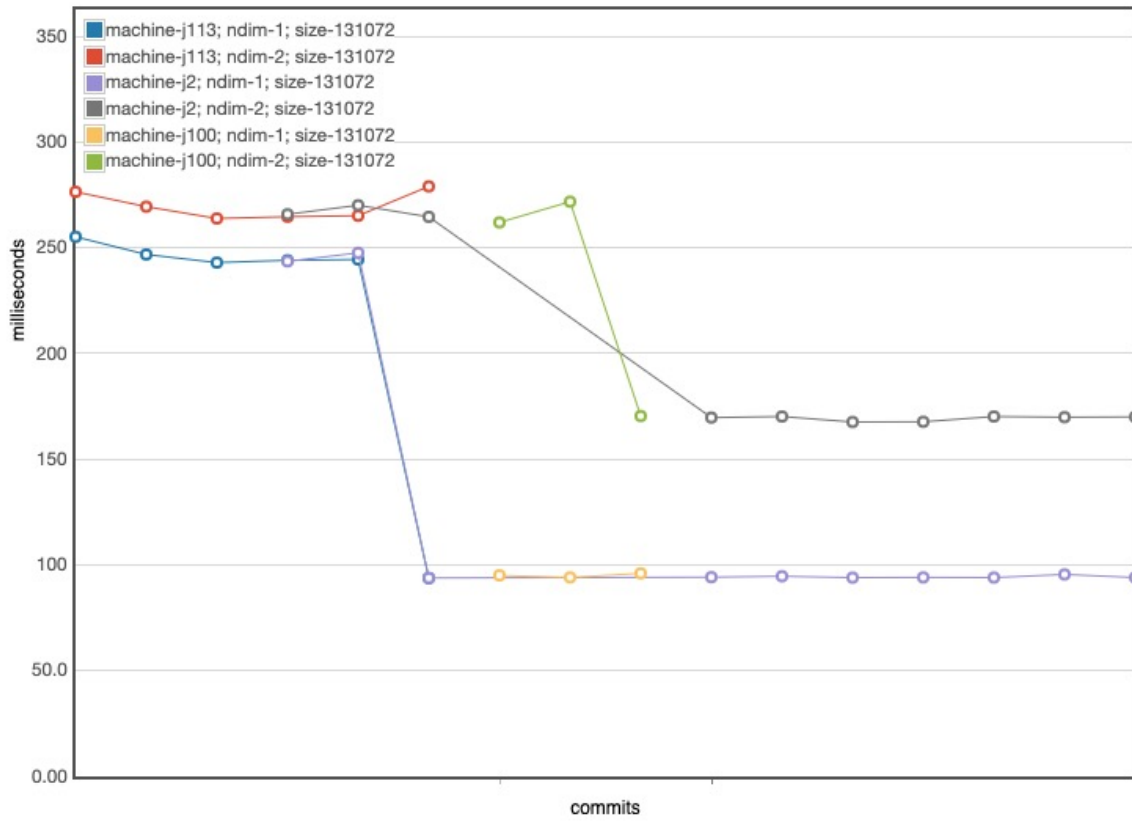
Downloads last month: 239,002

Daily Download Quantity of gurobipy package - Overall

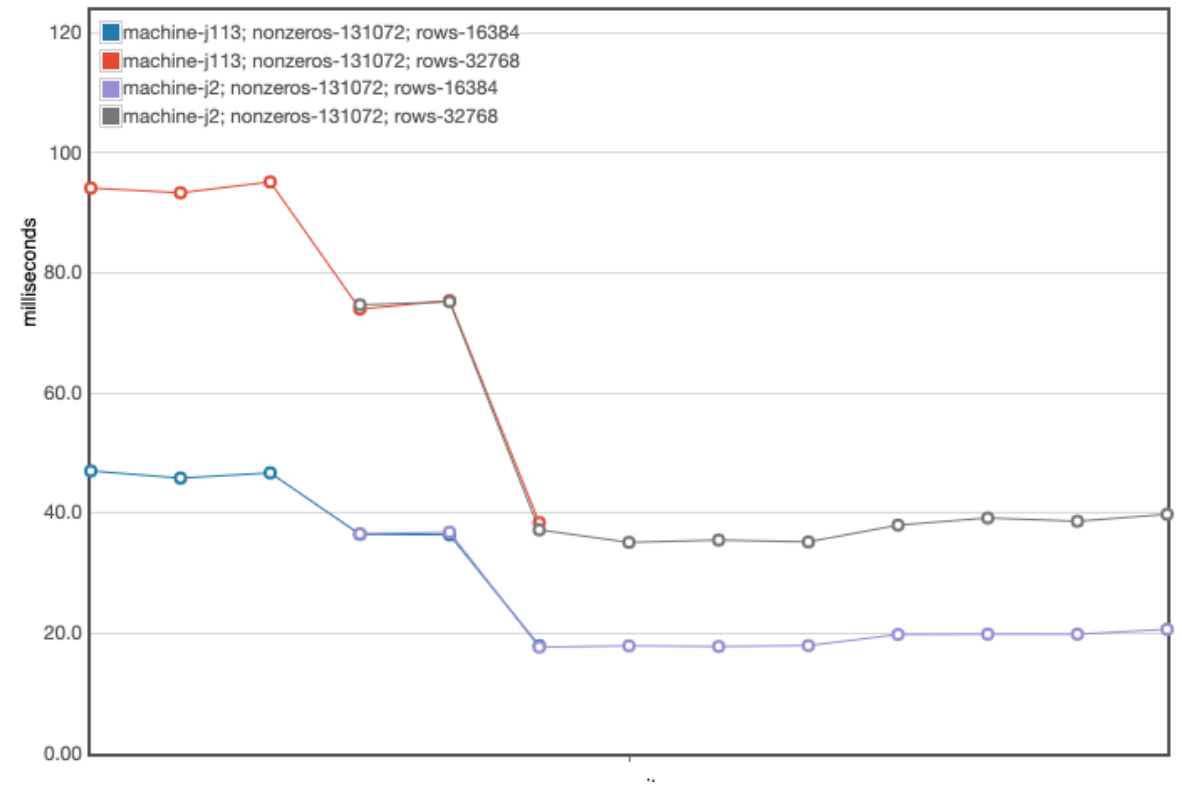


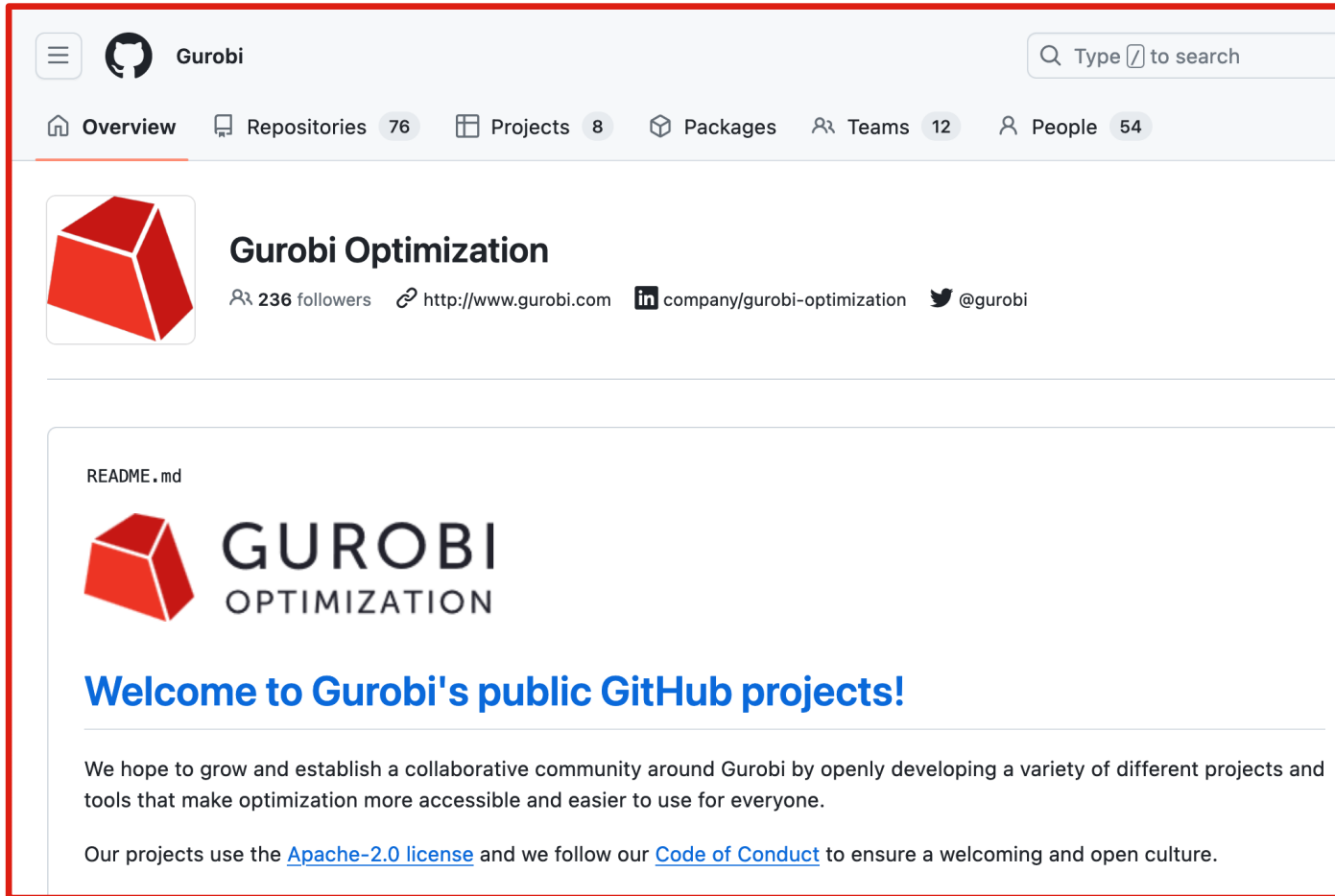
Modeling performance monitoring

model.AddVariables.time_addmvar_autonames



model.AddLinearMatrixConstraints.time_overloaded_autonames





The screenshot shows the GitHub profile for Gurobi. At the top, there's a navigation bar with 'Overview', 'Repositories 76', 'Projects 8', 'Packages', 'Teams 12', and 'People 54'. Below this is the profile header for 'Gurobi Optimization', featuring the Gurobi logo, 236 followers, and links to the website and social media. The main content is a README file titled 'Gurobi Optimization' with a red cube logo. The text in the README reads: 'Welcome to Gurobi's public GitHub projects! We hope to grow and establish a collaborative community around Gurobi by openly developing a variety of different projects and tools that make optimization more accessible and easier to use for everyone. Our projects use the Apache-2.0 license and we follow our Code of Conduct to ensure a welcoming and open culture.'

Gurobi continues to invest in Python

- Exciting projects on github.com/Gurobi
- Enriching our integration with the greater Python ecosystem
- Increase visibility and accessibility of optimization technology

GitHub

Agenda

- matrix-friendly modeling
- gurobipy-pandas
- gurobi-machinelearning
- OptiMods

