

**Embrace firsts and embrace improvements!** This year's firsts: undergraduate participation, travel funding, pre-event onboarding. This year's improvements: better pre- and post-event "shepherding", focused evaluation with input from the broader hackathon community, and new expert input events this year and in the future..

**Organizers must dedicate time to personal outreach and communication.** We personally invite a group of leaders with diverse backgrounds and experience. Connect with excited folks and seek new connections. Answer questions, address concerns. This takes time. Mindfully allocate funding for participation.

**In our space, infrastructure is key.** Data and computing needs for earth system science are large and diverse. By leveraging **NSF JetStream2** cloud computing and object store, alongside institutional partner **2i2c**, we provide dynamic computing and data environments on demand. We provide participants ahead of time with a comprehensive data management plan and training in Pythia's GitHub Actions.

**People in action is your most powerful tool.** Give participants time and space to meander, ask questions, and learn. Populate your hack spaces with leaders and participants with diverse technical and social skills if able. Peer learning is powerful, and excitement is contagious.

# Open Source Farm to Open Science Table: Project Pythia's Cook-off Hackathons

*Drew Camron, Kevin Tyle, and the Project Pythia Community*

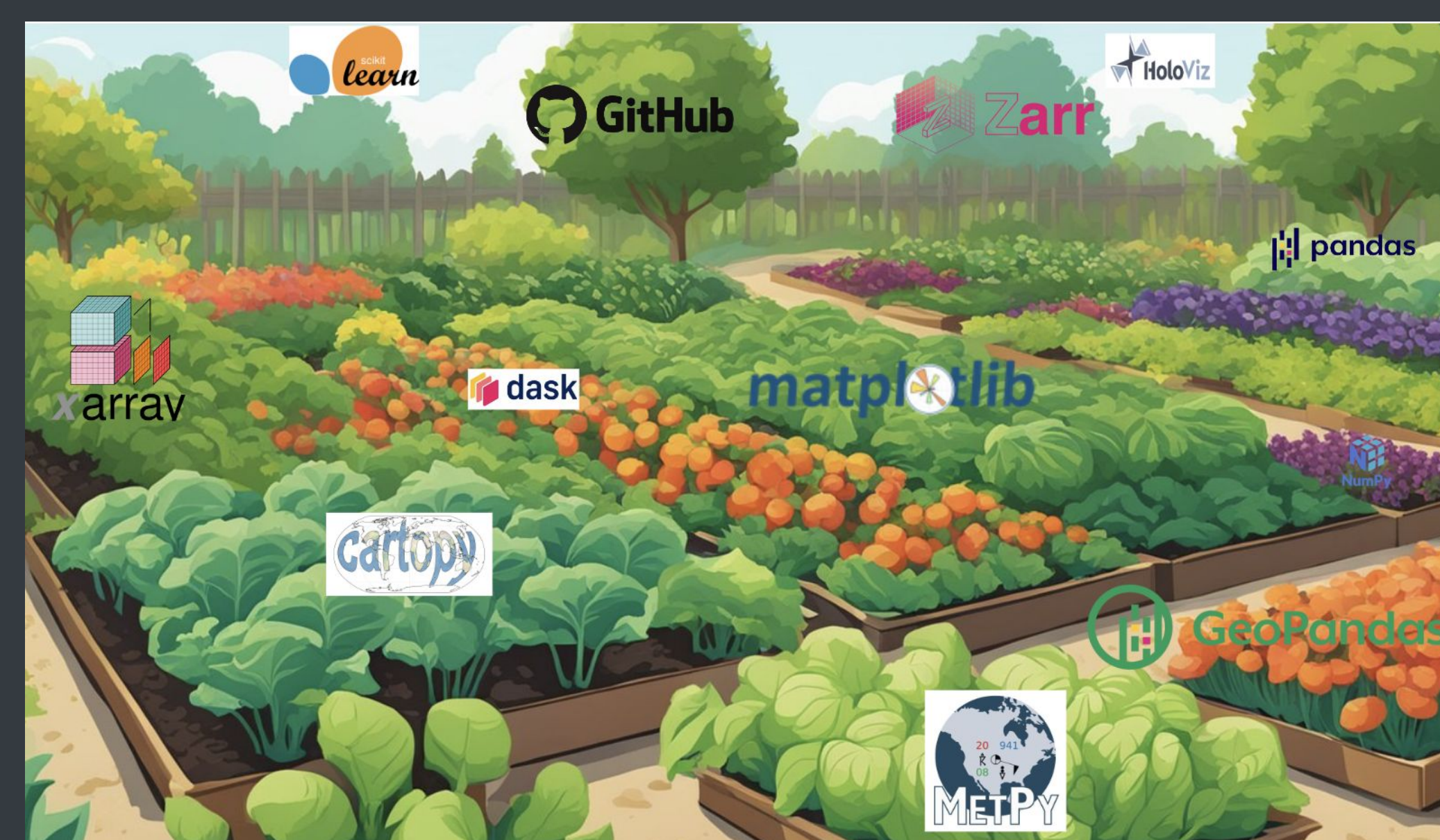
## How do Project Pythia's hackathons grow its open source community?

Mindfully embrace "firsts" and challenges

Personal and community outreach

Level the playing field with infrastructure

Let people hack!



Our farm



Our table



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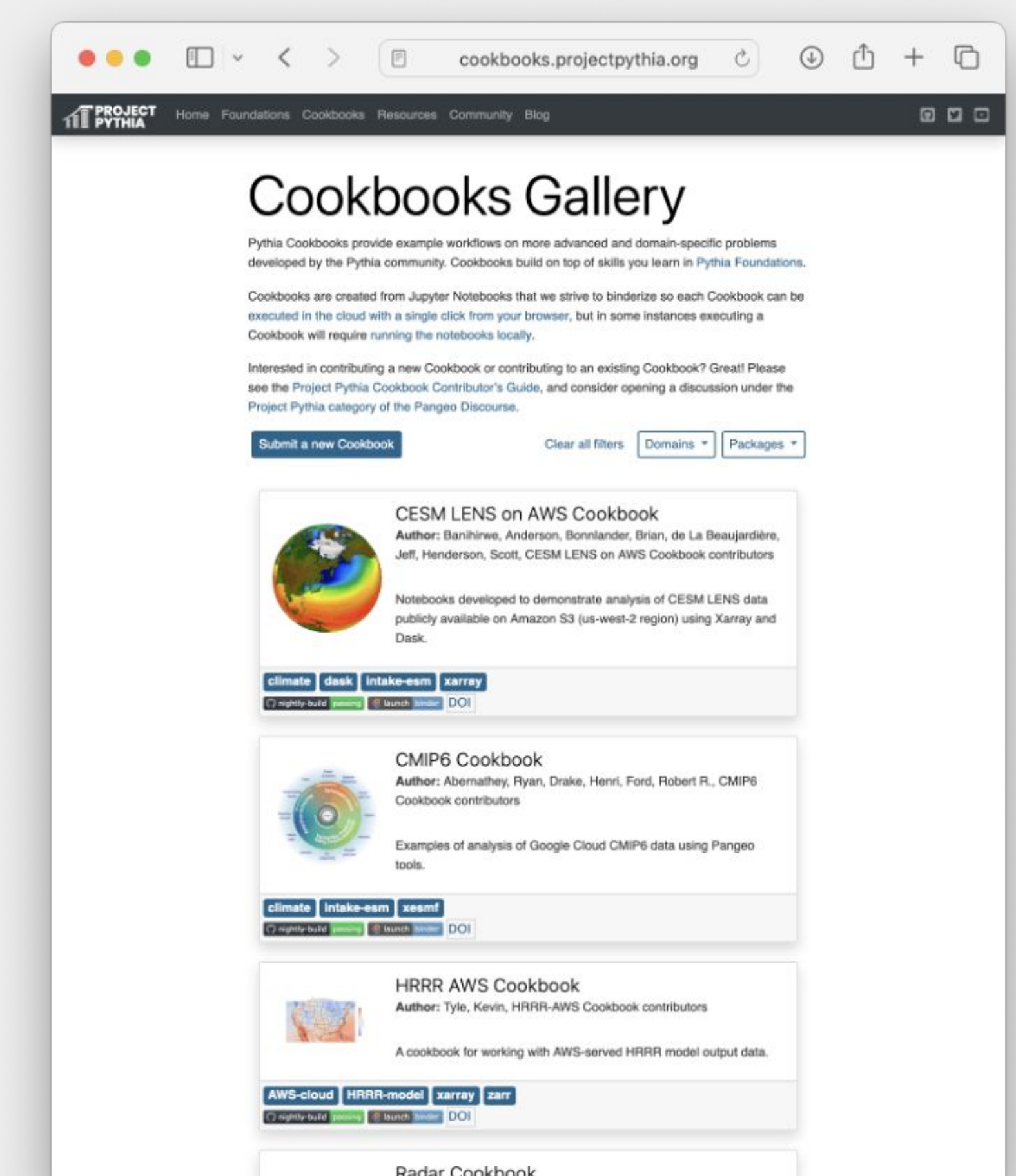
**PROJECT PYTHIA**

Project Pythia is a community creating and supporting resources for teaching and training within the Pangeo Community of geoscientists who code. We've hosted 3 hackathons, growing from an internal-only small group event in 2022 to our 60+ person hybrid open event in 2024.

Project Pythia's Hackathons  
(aka, **Cookoffs**)

The task:

Create or update Project Pythia Cookbooks.



The infrastructure:

Cloud-hosted Binderhub and S3



See **JT Thielen, SciPy Poster No. 3**, for Pythia Hackathon Cookbook development in action!