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Concept

Knowledge Sharing

- Many scientific examples:
 - Computer vision and high energy physics datasets
 - Minimal code examples

Test new technologies interactively
- Wide use in teaching and workshops
- ~550 active users (last 6 months)

Scientific Research

- Accessible via web browser:
 - Filebrowser
 - Code editor
 - Terminal
- SSH connection to any resource
- Extensive software stack:
 - TensorFlow, ROOT, numpy, ...
- Run code with one click
- Data science specialised extensions

Setup Principle



VISPA Server

- Server provides
 - Full UI implementation
 - User & group management
 - Manages SSH connections for multiple users
- Server prepares resources if necessary

JupyterLab

NEW

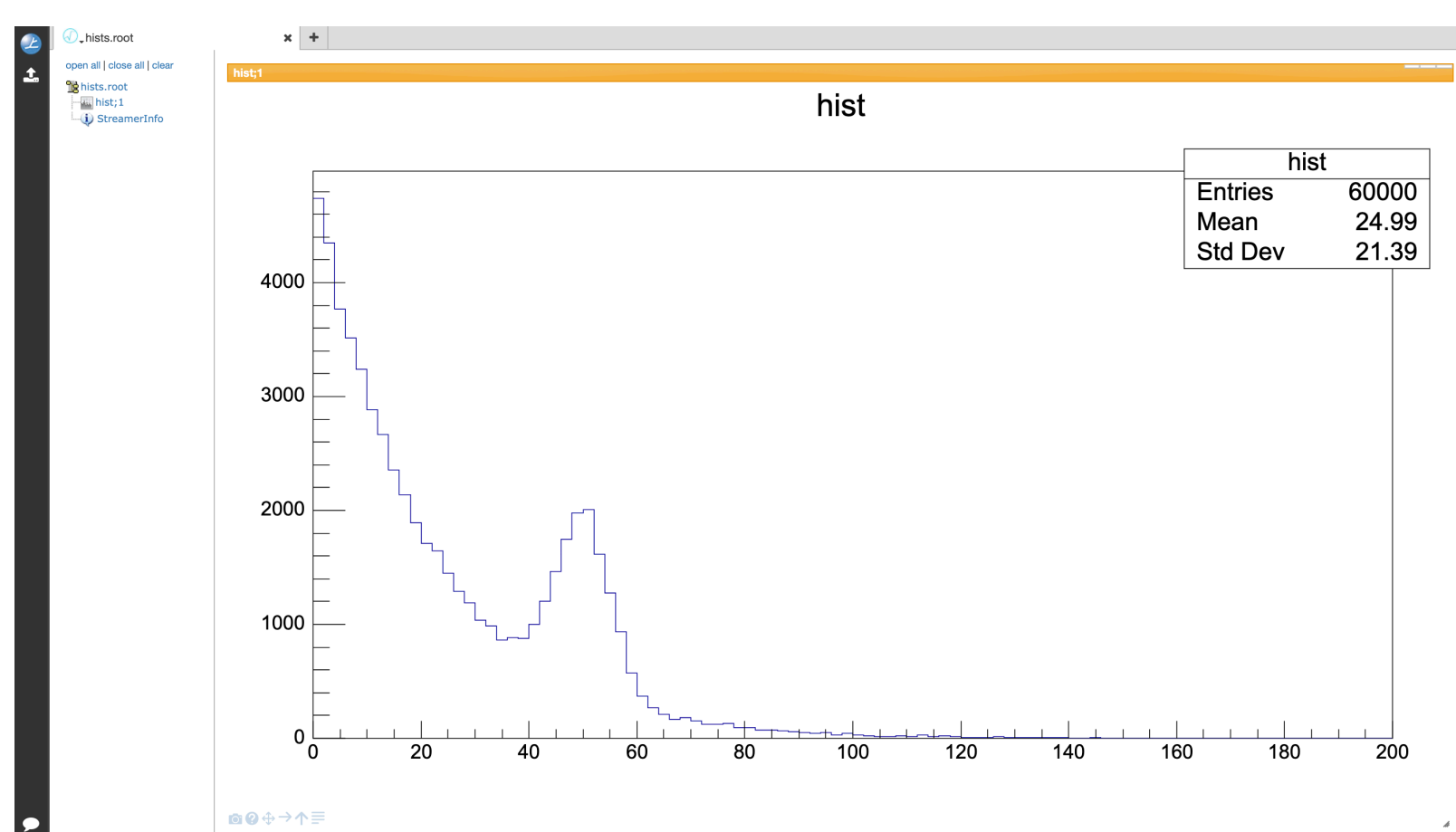
- State-of-the-art UI:
 - Editor, Terminal, File Browser
- Natural support for Jupyter notebooks
- Flexible: Jupyterlab extensions can be installed by each user (e.g. themes or new renderers)

JupyterLab is fully released (stable). Combining JupyterLab with the VISPA project allows the user to use a state-of-the-art UI, enjoy multiple tools for foreign data formats (e.g. ROOT) and work on any ssh-reachable resource in the world.

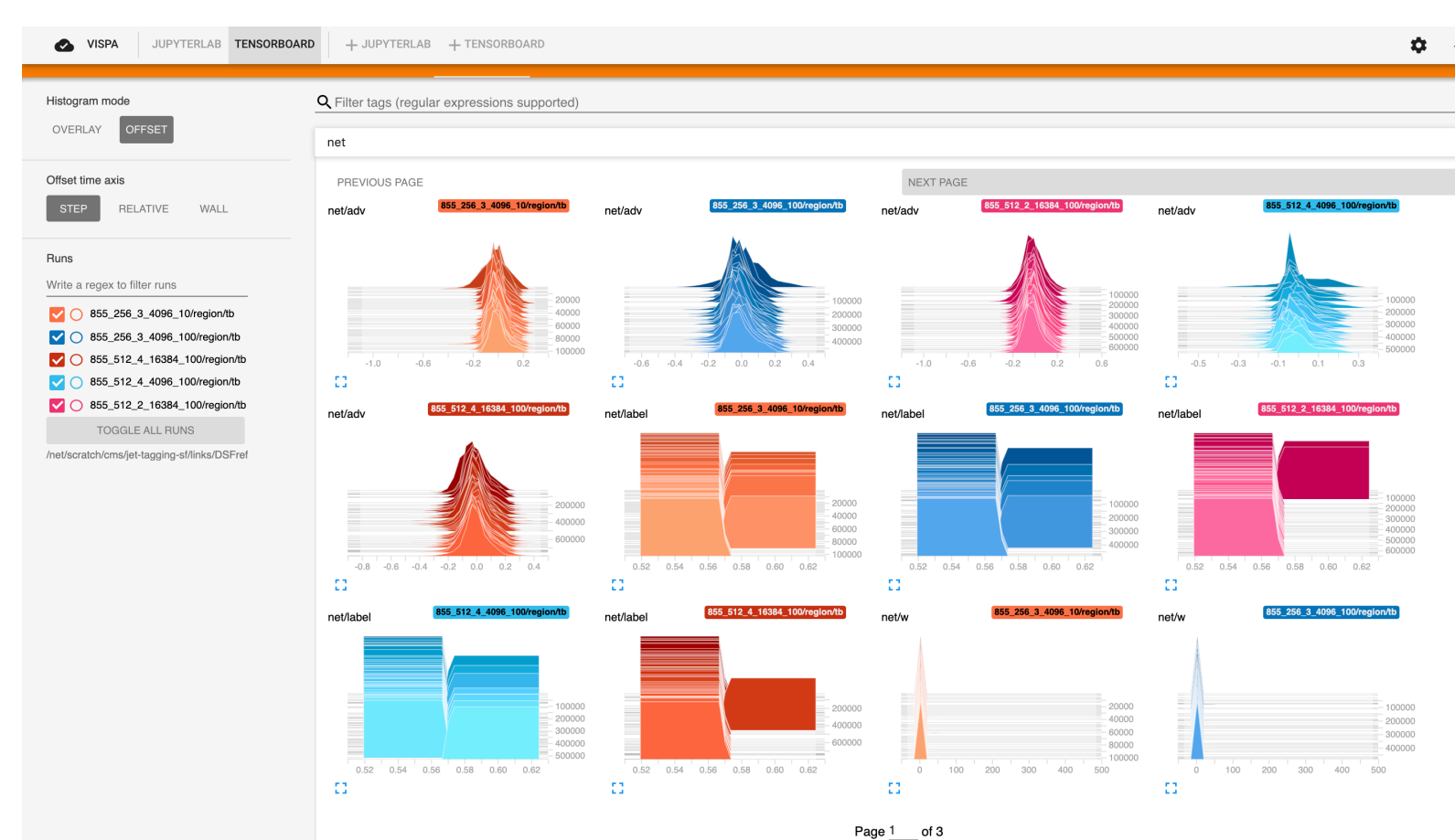
New VISPA (2020)

New VISPA

ROOT Viewer



TensorBoard



Jupyter Notebooks

