

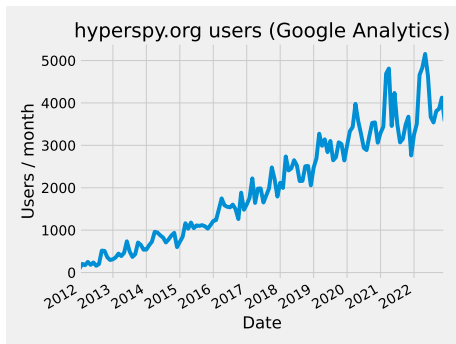
HyperSpy: multi-dimensional data analysis toolbox

Francisco de la Peña, Eric Prestat and the HyperSpy developers

INNOVATION STRATEGY WORKSHOP
18th of January 2024

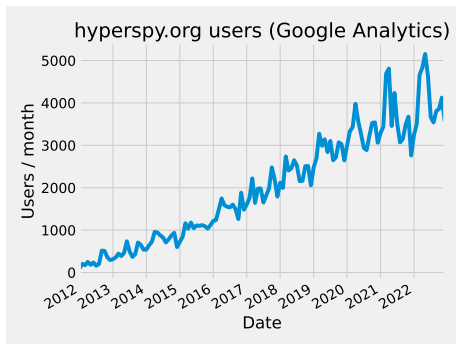
HyperSpy the software package—some stats

- > 8000 downloads/month
(from pypi and conda-forge)
- > 900 citations
- > 100k lines of code
(only hyperspy base)



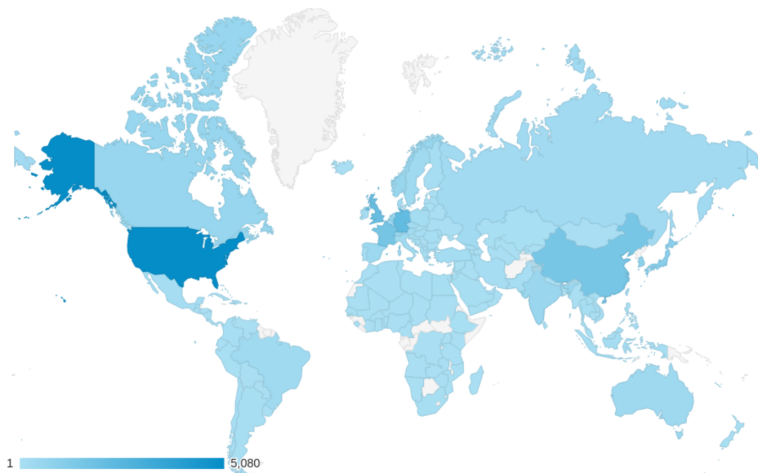
HyperSpy the software package—some stats

- > 8000 downloads/month (from pypi and conda-forge)
- > 900 citations
- > 100k lines of code (only hyperspy base)
- > 60 contributors
- Used by 120 other repositories in GitHub, including 30 packages
- >400 GitHub Stars



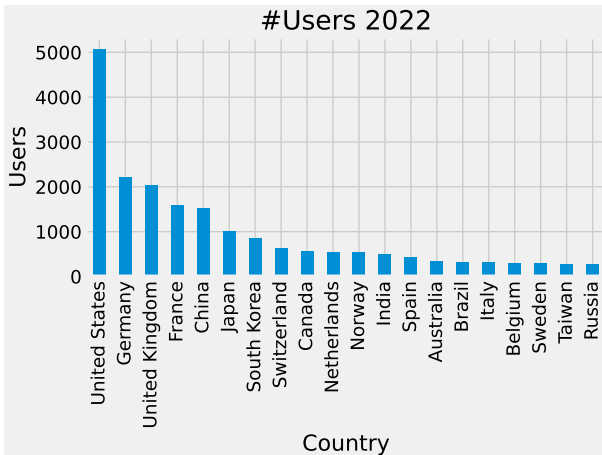
HyperSpy users by country

hyperspy.org users from January 2021-December 2022



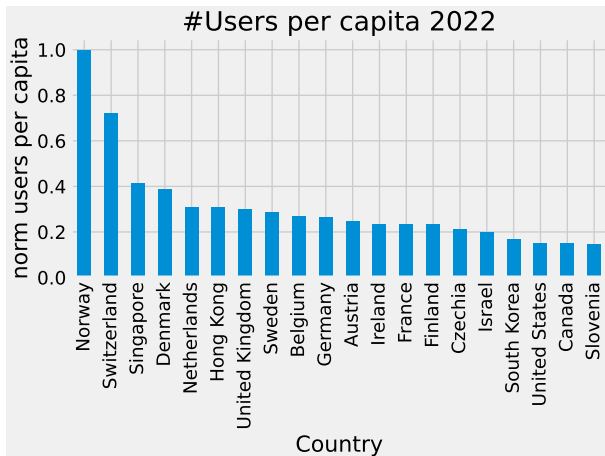
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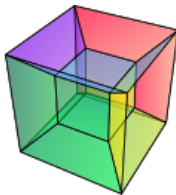
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What is HyperSpy?

A *software ecosystem* and *community* that aims at *pushing the boundaries* of data processing and analysis of *multi-dimensional datasets* across scientific fields.



Electron microscopy Python software packages



NionSwift



py4DSTEM



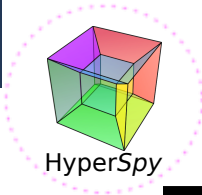
Electron microscopy Python software packages

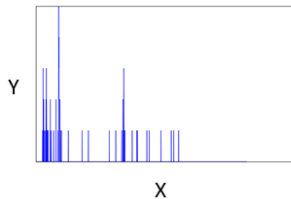


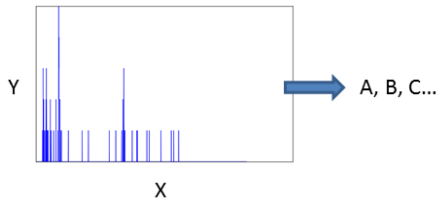
NionSwift



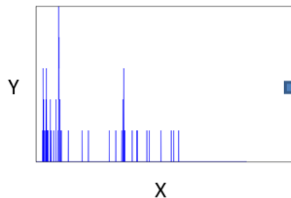
RosettaSciIO



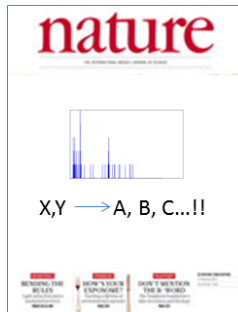




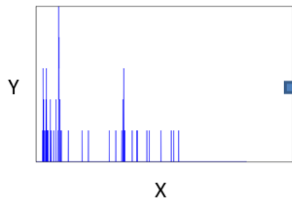
Sustainability



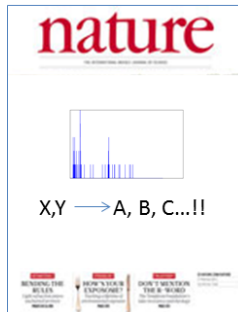
→ A, B, C... →



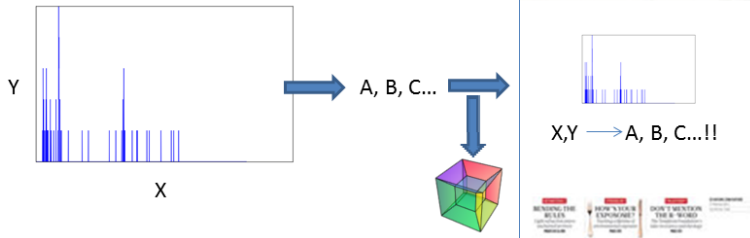
Sustainability



→ A, B, C... →



Sustainability



Thank you all for you attention!

When you people have a new idea:

- In academia: I hope no one scoops me
- In Open Source: thanks goodness someone already thought of this!

Elizabeth Seiver @tweetotaler in Twitter

