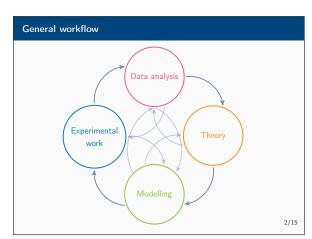


How: Research Pipeline



Tools of the trade Experimental: • EEG, ECoG, intracellular and extracellular single and multi neuron recording, • CT, DOI, MRI, f-MRI, MEG, PET, Data analysis: • Statistics, • Machine Learning, Big Data, Deep learning, Theory and modelling: • Simulators of all kinds,

Tools of the trade: II

Tools for the dissemination of knowledge⁴:

• visualisation,

• academic writing,

• non academic writing: blogging ...,

• pod-casting,

• video making,

• creating teaching materials,

• collaborative tools and utilities

Free/Open (neuro) Science

Free/Open Science:
Everyone should have the freedom to share, study, and modify scientific material.

FOSS:
Everyone should have the freedom to share, study, and modify software⁵.

Free/Open Science includes and relies heavily on Free/Open Source Software (FOSS).

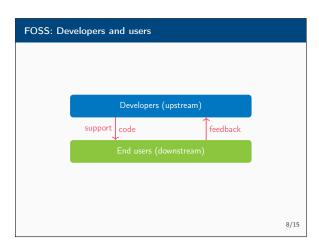
So we strive to use more and more FOSS

| NEUROVIEW | YOUANE ML ISSUE'S PRIE-MG DECEMBER 08, 2027
| A Commitment to Open Source in Neuroscience
| Padring Gleeson - Andrew P. Davison - R. Angus Siver - Glorgio A. Ascoli A. S.
| Open Access - DOI: https://doi.org/10.1016/j.neuron.2017.10.013 -

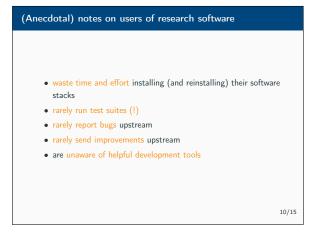
NeuroFedora: why, how, what?

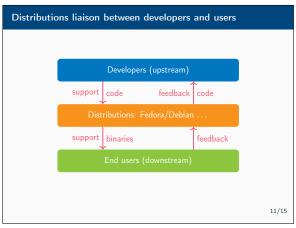
various specialities: biologists, mathematicians, physicists, chemists, psychologists, ..., small proportion of trained software developers

7/15









Distributions, like Fedora, are in a unique position: • liaison between upstream and users • have the infrastructure • follow best practices in software development • constantly work on community development • learn from one another—train while working • disseminate information to end-users



NeuroFedora: current metrics

- Turned a year old, in September 2019⁸,
- 20 volunteers
 - 16 package maintainers
 - 5 designers, newcomers
 - only 5 from a neuroscience background
- software:
 - $\bullet~$ 135 tools (packages) ready to install $^9\colon$
 - Neuron, InterViews, NEST, Genesis, Brian (v1 and v2), Moose, python-libNeuroML, PyLEMS, PyNWB, ...
 - \bullet ~180 in queue 10 .
 - NeuroMLlite, pyNeuroML, NetPyNE, . . .
- 8 in its second iteration
 9 src.fedoraproject.org: Neuro-SIG
 10 Pagure.io: Neuro-SIG: issues

14/15

Search: "NeuroFedora"



Mailing list: neuro-sig@lists.fedoraproject.org

IRC: #fedora-neuro on Freenode Telegram: t.me/NeuroFedora Documentation neuro.fedoraproject.org

Blog: neuroblog.fedoraproject.org

Pagure.io (FOSS Git forge): neuro-sig/NeuroFedora

15/15