NEST Desktop (v2.4.0)

A web-based GUI for NEST Simulator

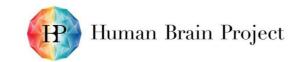


Sebastian Spreizer

CNS Workshop, 18th July 2020

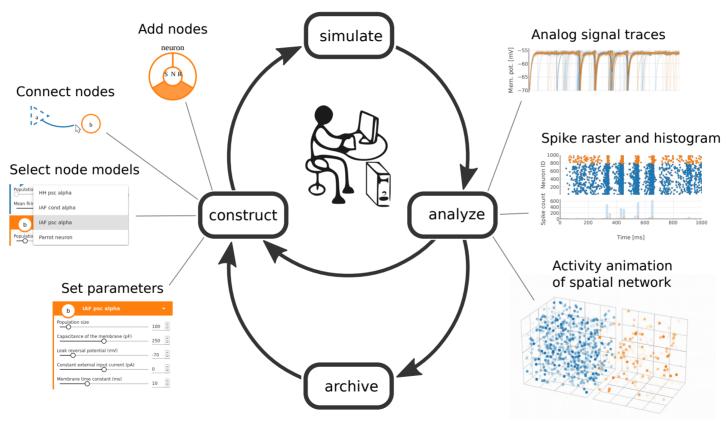






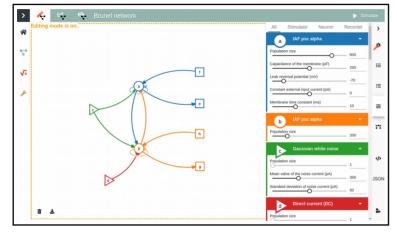


Conceptual approach

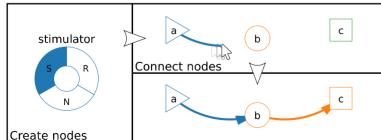


Network editor

A Network editor



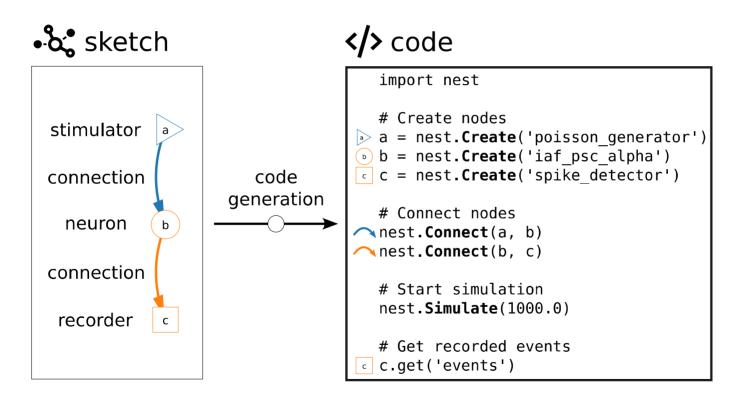
B ⋅ ¾ Network sketch



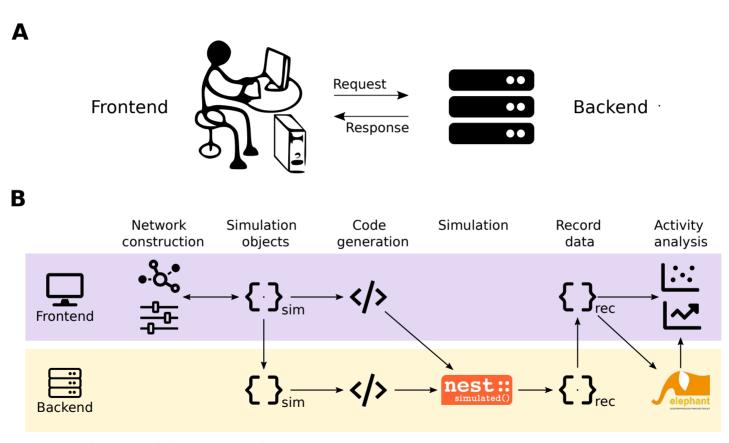




From sketch to code

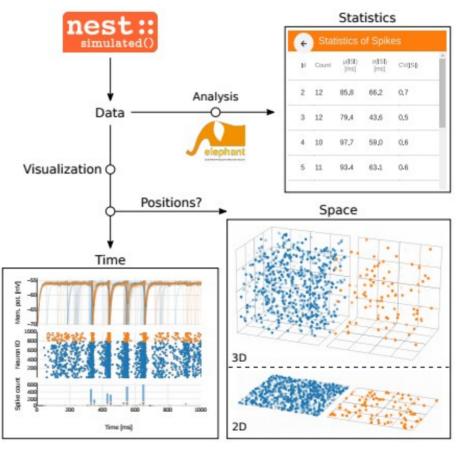


Workflow



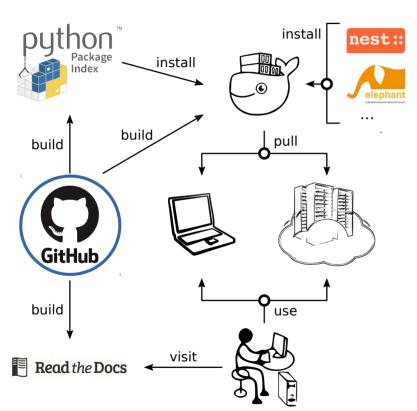
Spreizer et al. in preparation

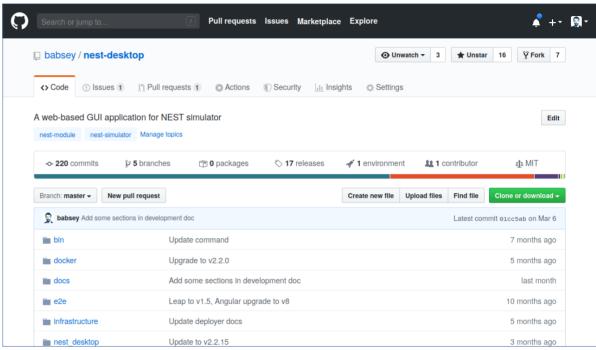
Explore activity



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Open-source code

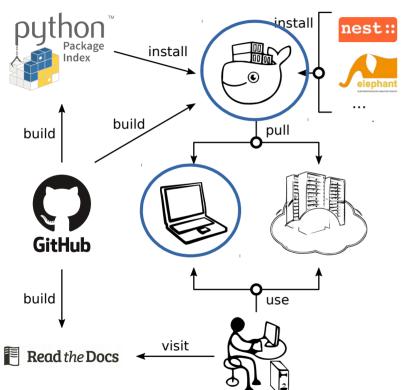




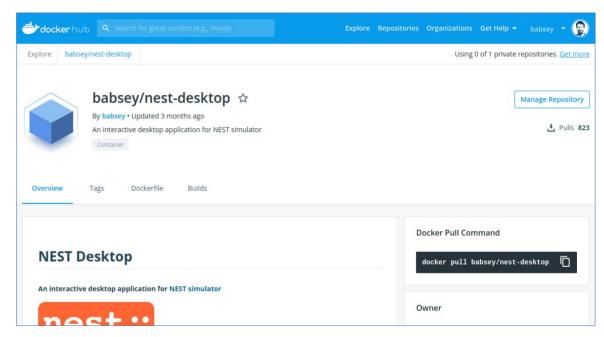
Spreizer et al. in preparation

https://github.com/babsey/nest-desktop

Run NEST Desktop locally

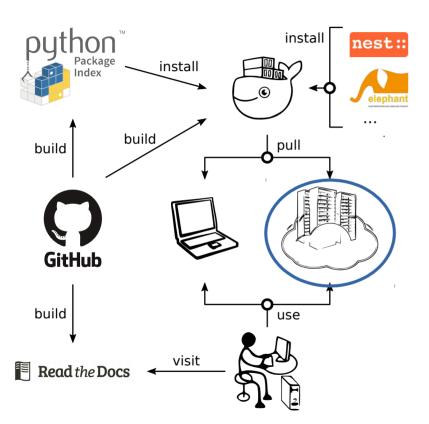


Spreizer et al. in preparation



Start nest-desktop in bash docker run -it -p 5000:5000 -p 8000:8000 babsey/nest-desktop

Online accessible

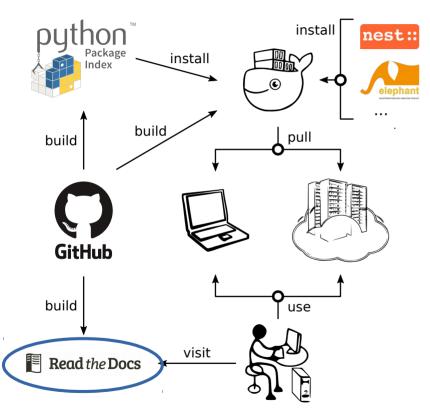


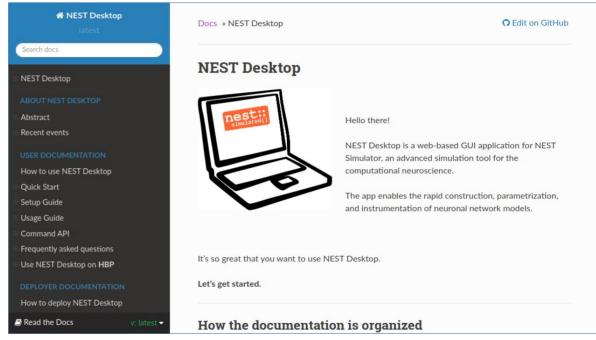


Spreizer et al. in preparation

https://nest-desktop.apps.hbp.eu

Documentation





Spreizer et al. in preparation

https://nest-desktop.readthedocs.io

Future perspectives

Feature	Projects
Custom neuron / synapse models	NESTML
Live simulation	Insite
Advance analysis	Elephant

Thank you.

Technical challenges

