

Datajongleur – a pyToolkit for Dataobjects

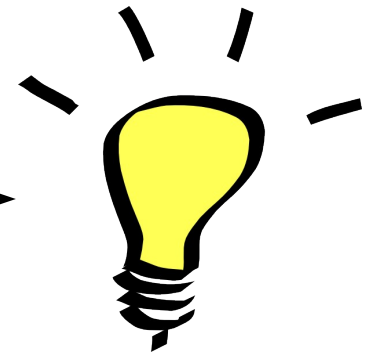
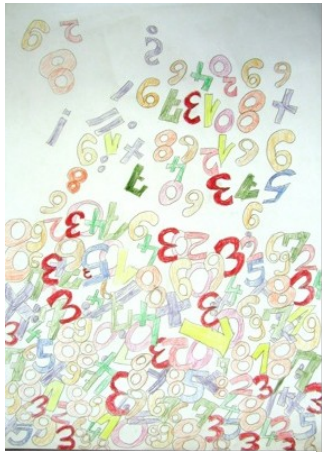
Philipp Rautenberg

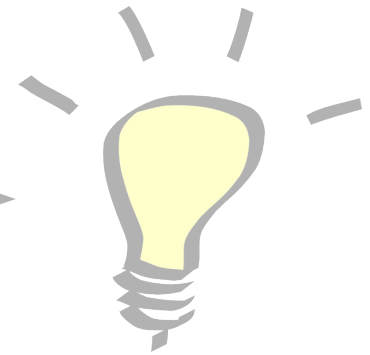
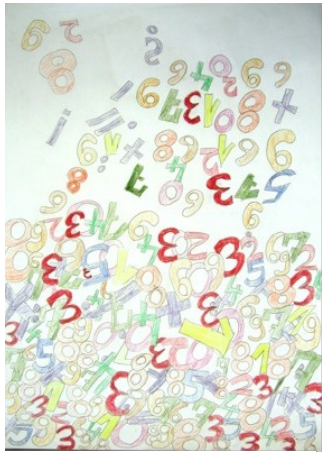
*German Neuroinformatics Node
Ludwig-Maximilians Universität München*

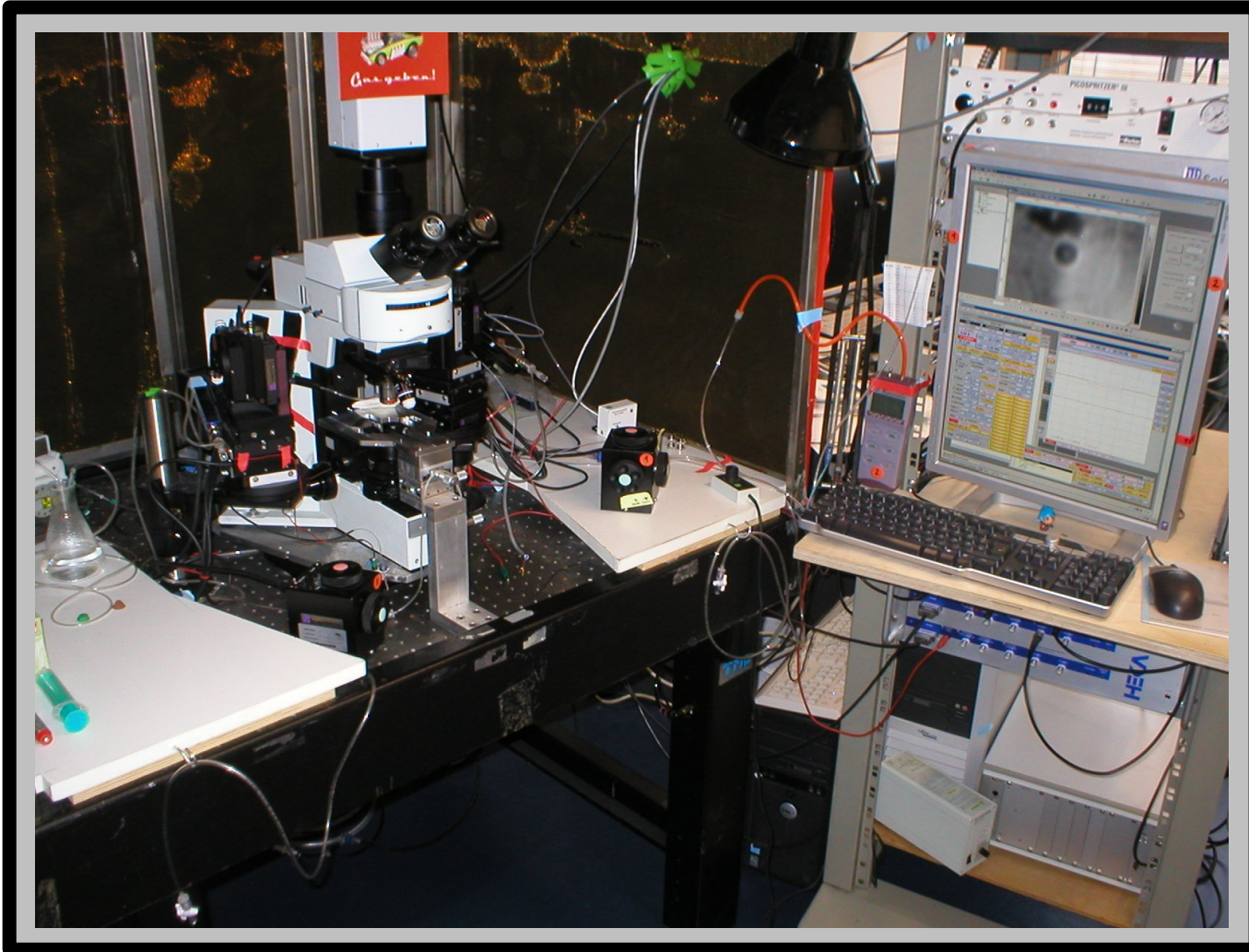
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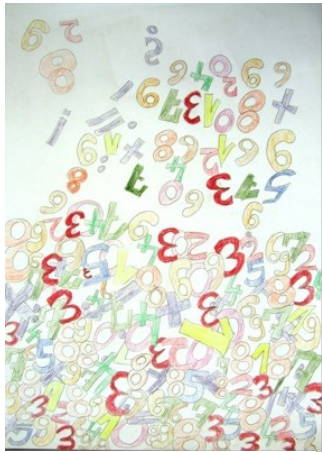


Measurements:

- FMRT
- CT
- Histologie
- EEG
- MEG
- TMS
- LFP
- SCR
- OI
- EP

Simulations

- Multicompartmental-
models
- Point-Cells
- Networks
- Bodies

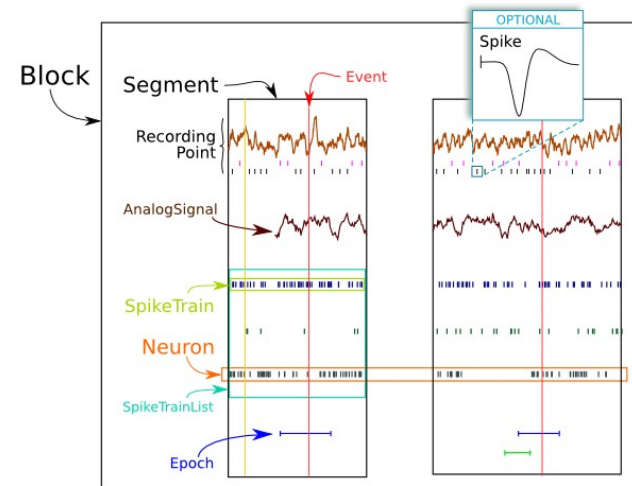
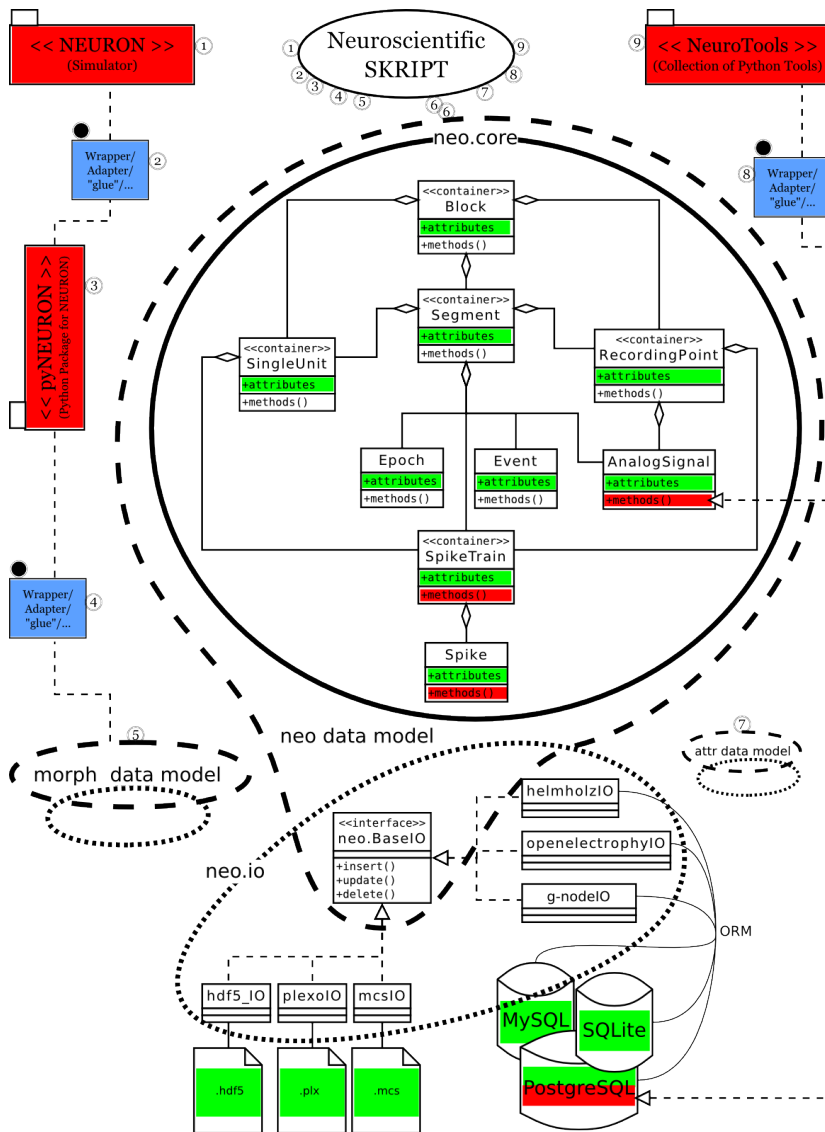




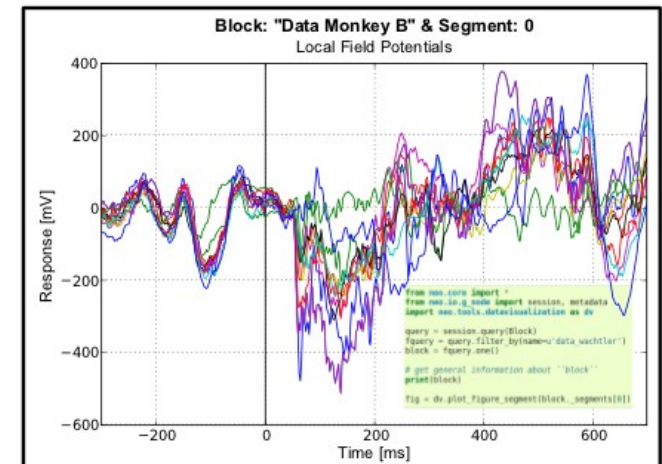
G-Node German
Neuroinformatics Node

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Coordinating Facility





Neo : Neurotools/OpenElectrophy shared base architecture



“We love neo – we want more!”

“We love `neo` – we want more!”

E.g.:

- Geometric data
- Images
- New structures
- Metadata

@json_ify (by Parameters?)

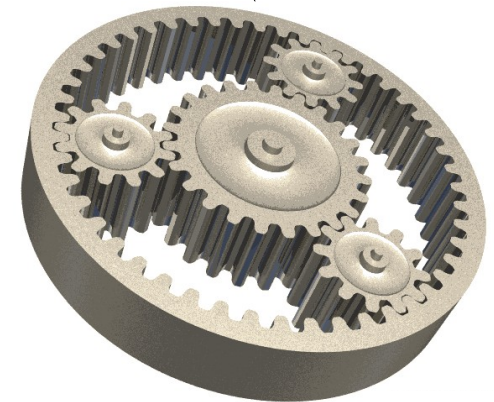
@add_sql_access

@addendify

- Event
- SpikeTrain
- AnalogSignal
- IrregularlySampledSignal
- Epoch
- EpochArray
- ... (Quantity-based)



Different data models – combined
without changing underlying models
each time! E.g.: neo ↔ odm1



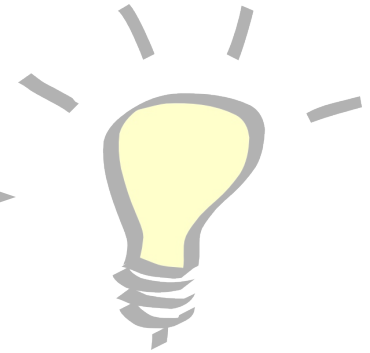
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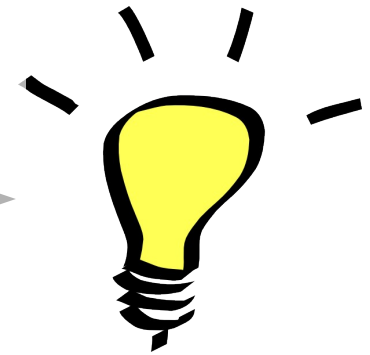
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- http://www.f-lohmueller.de/pov_anim/ani_4015d.htm



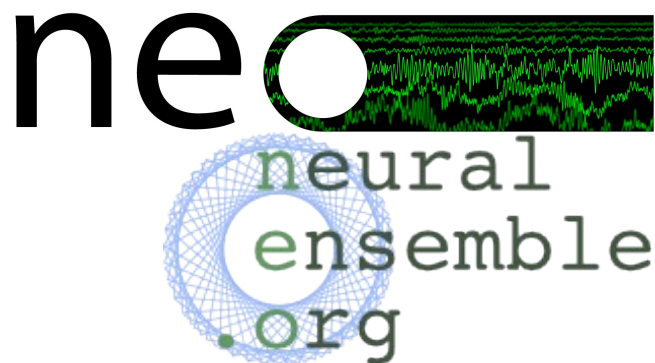
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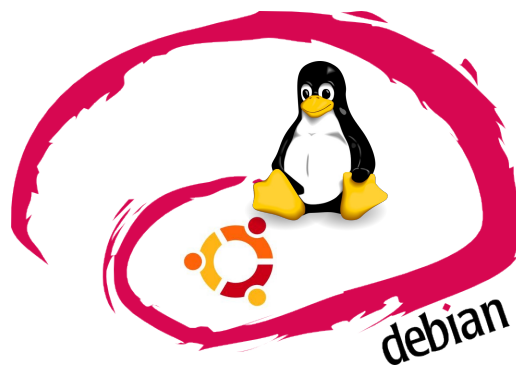
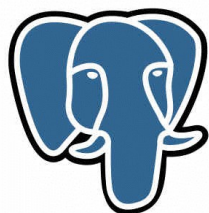




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PostgreSQL



IP[y]: IPython
Interactive Computing



Python-Quantities



Vielen Dank für Eure Aufmerksamkeit!

Contact: philipp.rautenberg@g-node.org

How to keep you up to date?