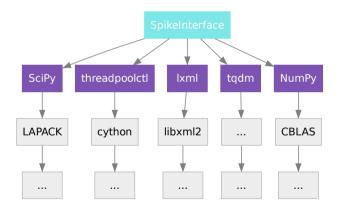
Infrastructure

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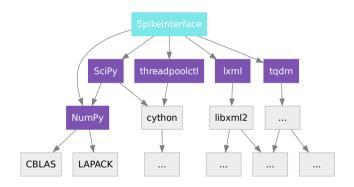
Center for Open Neuroscience, Dartmouth College

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Probably more than you think.



Probably more interconnected than you think.



Probably *much* more complex than you think.



No, but you can make it worse.

The file data/containers.pdf hasn't been created from data/containers.dot yet. We attempted to create it with:

'dot -Tpdf data/containers.dot -o data/containers.pdf' but that seems not to have worked.

dot said:

"Error: dot: can't open data/containers.dot: No such file or directory "
Now you have three clocks and don't know what time it is."

And not just with respect to details.

```
FROM
      matlab-base
HSER root
RUN chmod 755 /usr/bin/mlrtapp. compiled
ENV PATH="/usr/bin/mlrtapp:${PATH}"
# Installing Python with miniconda
RUN apt-get update && \
    apt-get install -v build-essential && \
    apt-get install -y wget && \
    apt-get install -v git && \
    apt-get clean && \
    rm -rf /var/lib/apt/lists/*
ENV MINICONDA VERSION 23.1.0-1
ENV PYTHON VERSION DV39
ENV CONDA DIR /home/miniconda3
ENV LATEST CONDA SCRIPT "Miniconda3-${PYTHON VERSION} ${MINICONDA VERSION}-Linux-x86 64.sh"
RUN wget --quiet https://repo.anaconda.com/miniconda/$LATEST CONDA SCRIPT -0 ~/miniconda.sh && \
    bash ~/miniconda.sh -b -p $CONDA DIR && \
    rm ~/miniconda.sh
ENV PATH=$CONDA DIR/bin:$PATH
```

But good solutions are irresistible.

Key Discussion Items

Concepts:

- distributed workload;
- testing and sustainability;
- access and transparency;
- adaptability;
- resource integration;

Questions:

- What infrastructure do you use?
- How do you manage your software stack?
- Do you benefit from controlling your environment?
- What advantages do you gain from open source?
- Do you treat scientific software stacks differently from other software, if so, why?