



NEW INTERFACES FOR TEACHING WITH NEST:

HANDS-ON WITH THE NEST DESKTOP GUI AND NESTML CODE GENERATION

18 July 2020 | CNS2020 | Charl Linssen, Renato Duarte & Sebastian Spreizer

Welcome!

Contents of the tutorial:

| Timezone: Europe/Berlin | |
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| Time | Description |
| 16:00 | Welcome and introduction to NEST Simulator |
| 16:30 | Introduction to NEST Desktop |
| 16:45 | Lunch break/social |
| 17:15 | Hands-on with NEST Desktop |
| 18:00 | Hands-on running NEST from Jupyter Notebooks |
| 19:00 | Coffee/tea break |
| 19:15 | Introduction to NESTML |
| 19:45 | Hands-on with NESTML and Jupyter Notebooks |
| 20:15 | Hands-on with balanced network exercises |
| 20:45 | Coffee break/social |
| 21:15 | Hands-on with balanced network (continued) |
| 21:45 | Closing |

Presentation

Hands-on

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Balanced network (AI) ▶ Simulate

Kernel

- Local number of threads: 1
- Time resolution (ms): 0.1

Simulation

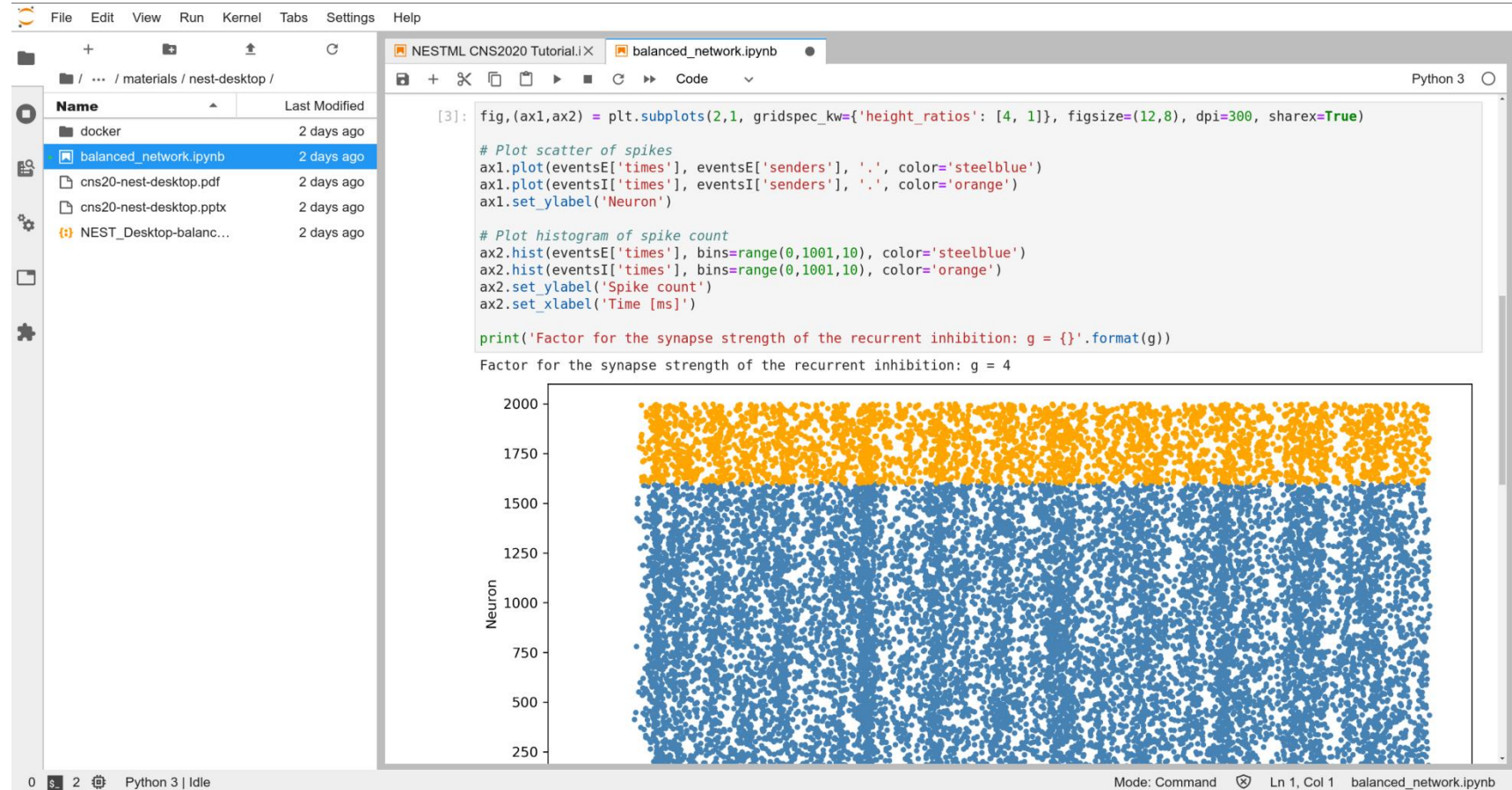
- Seed of random number generator: 0
- Simulation time (ms): 1000
- Randomize seed: ☐
- Simulate after change: ☐
- Simulate after load: ☐

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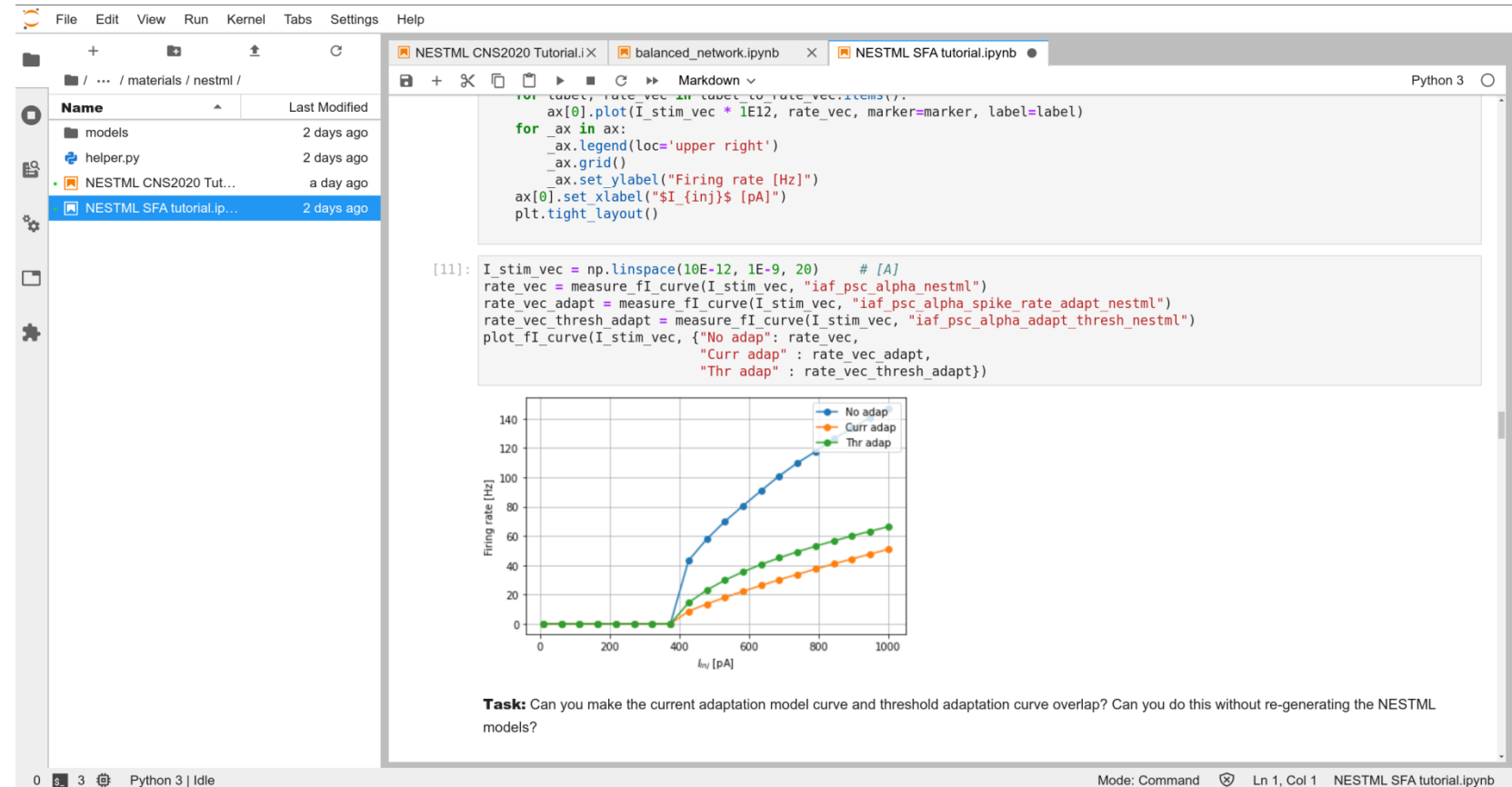
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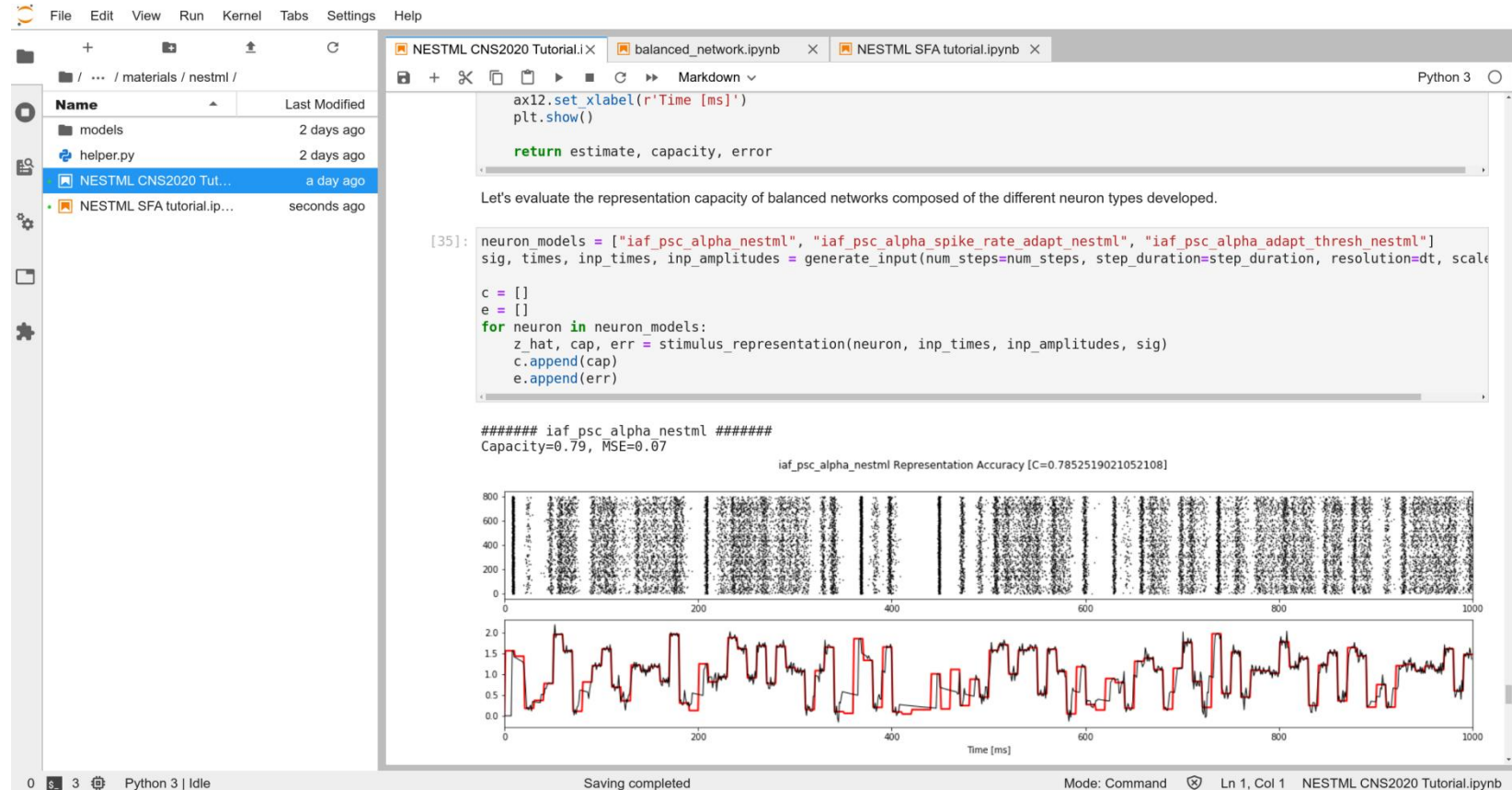
nest::ml



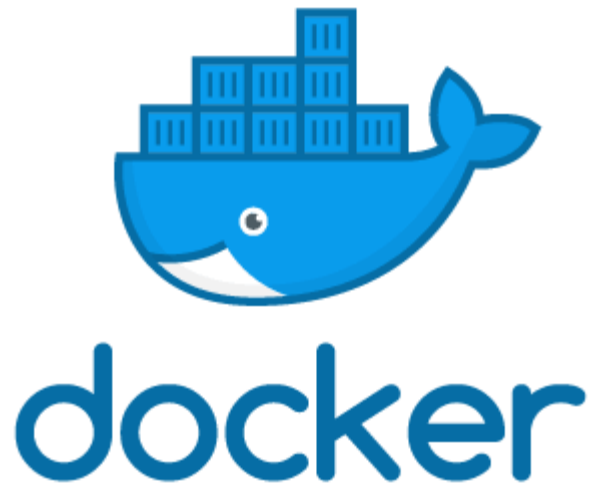
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Required software



Local installation



Running on the cloud

Where to find materials?

Contents of the tutorial:

<https://clinssen.github.io/OCNS-2020-workshop/index.html>

Materials (only for local installation):

<https://www.github.com/clinssen/OCNS-2020-workshop>

Cloud access:

(via Zoom chat)

Feedback form:

<https://forms.gle/pJ32K96uo5wvgn7L9>

Even more materials

NEST Desktop:

<https://nest-desktop.readthedocs.io/>

NEST Simulator:

<https://nest-simulator.readthedocs.io/>

NESTML:

<https://nestml.readthedocs.io/>