Hackathon Preparation

The hackathon has two parts:

- **Morning: test the existing examples → user installation**

- **Afternoon: implement something new → developer installation**

- Goal of this session: help everyone get a working setup for tomorrow

What You Need

- Python >= 3.11
- Virtual environments
- Apptainer
- Git
- Jupyter (optional → you only need if you want to run the notebook examples)

See links for instructions on how to install or ask. We will help you.

https://pyaml.readthedocs.io/en/latest/getting-started/python-basics.html

https://apptainer.org/docs/admin/main/installation.html

Virtual Accelerators

- Several of the examples will use virtual accelerators for testing

- They are deployed as containers that we run with apptainer

- The examples include instructions for how to run the containers

Ask if you get stuck or there is some strange error

What To Do

1) Install the required tools (previous slide)

2) Do a user installation and test so the examples run (see following slide)

3) Do a developer installation and test so the examples still run (see following slide)

**Recommendation:
install each part in its own virtual environment**

User Installation

pyaml

- Installation:

  https://pyaml.readthedocs.io/en/latest/getting-started/installation.html#user-installation

- Examples

  https://pyaml.readthedocs.io/en/latest/getting-started/test-examples.html

accml

- Installation:

  https://github.com/python-accelerator-middle-layer/accml

- Examples:

  https://github.com/python-accelerator-middle-layer/accml/tree/dev/main/examples

Developer Installation

pyaml

- Installation:

  https://pyaml.readthedocs.io/en/latest/getting-started/installation.html#developer-installation

accml

- Installation:

  https://github.com/python-accelerator-middle-layer/accml

**If you are not a pyAML maintainer:
fork the repositories before cloning them**