

# Analysis in Containers

Christopher Dilks | CLAS Collaboration Meeting | 8 July 2025

- Container images provide:
  - Executable software and libraries, with all their dependencies
  - Preservation of software: no need to figure out how to build it
  - Portability: share with others or between ifarm and your PC
- *container-forge*: repository producing images for CLAS12 software
  - <https://code.jlab.org/hallb/clas12/container-forge>
  - Includes a **User Guide**, which we will present momentarily
- **Tutorial**: *analysis-in-containers*
  - Demonstrates how to containerize example analysis code
  - <https://code.jlab.org/hallb/clas12/tutorials/analysis-in-containers>
- For more, see my “GitLab, Containers, CI/CD” presentation at the November 2024 Collaboration Meeting
  - <https://indico.jlab.org/event/910/>
  - Note: ‘*container-forge*’ is a new fork of the older ‘*clas12-containers*’; the repository design differs from what is presented in these slides