

## CODE REFINERY

PARTNERS

**neIC**  
NORDIC E-INFRASTRUCTURE COLLABORATION

**CSC**  
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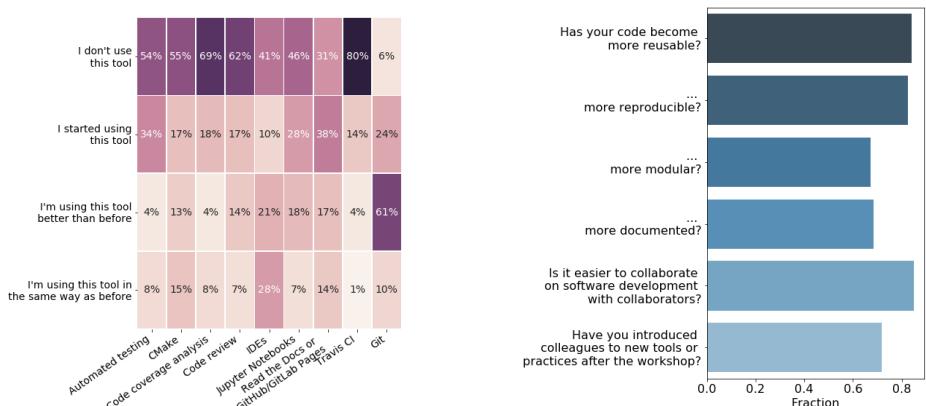
Estonian Scientific  
Computing Infrastructure

**SNIC**

**UNINETT**  
sigma2

## TRAINING AND E-INFRASTRUCTURE FOR RESEARCH SOFTWARE DEVELOPMENT

The goal of this project is to teach students and researchers how to write better code and provide research groups with software development e-infrastructure tools to collaboratively develop, review, discuss, test, and share their codes. We address students and researchers who already write code - across all academic disciplines.



## IMPACT

Post-workshop survey results collected 3-6 months after each workshop.

## WE HAVE DELIVERED 16 WORKSHOPS TO 400 STUDENTS AND RESEARCHERS

## OUR LESSONS

- Introduction to version control
- Documentation
- Jupyter notebooks
- Collaborative distributed version control
- Managing complexity and modular code development
- Automated testing
- DevOps, automation, and continuous integration
- Building portable code with CMake
- Integrated development environments
- Archaeology with Git
- Git branch design
- Mixed Martial Arts: Interfacing programming languages
- Software licensing
- Reproducible research



## WORKSHOP FORMAT

Carpentries-style: Hands-on informal and interactive three-day event with code-along format of presentations, demos and live coding. Short tutorials alternating with practical exercises.

## GITLAB SERVICE

Code repository hosting for Nordic research software:  
<https://source.coderefinery.org>



[HTTPS://GITHUB.COM/CODEREFINERY](https://github.com/coderefinery)



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