

FAIR DATA AUSTRIA

INTRODUCTION TO GIT

7.12.2021

HOSTED BY TU WIEN, CENTER FOR RESEARCH DATA MANAGEMENT









EVENT SERIES "RESEARCH DATA MANAGEMENT IN AUSTRIA"

The event series "Research Data management in Austria" is aimed at researchers and/or research support staff and serves to promote networking and exchange on the topic of research data management, writing a data management plan and similar related topics.

Slides and recordings on the project website:

forschungsdaten.at/en/fair-data-austria/materials/













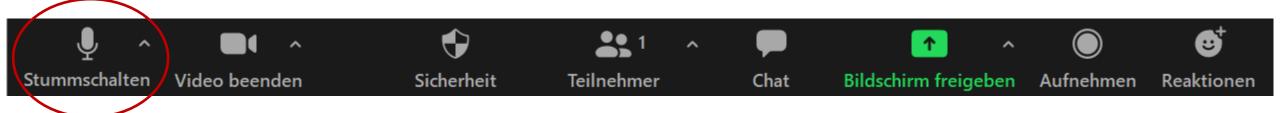
AGENDA

10.00 - 10.10	Welcome and introduction	Barbara Sánchez (TU Wien)
10.10 – 10:20	Introduction to Git	Alexander Spinn (University of Innsbruck)
10:20 – 11:00	Live Demo	Florian Wörister (TU Wien)
11.00 – 11.30	Questions & Answers	Barbara Sánchez (TU Wien)



FORMALITIES

Please turn off your microphone to avoid background noise



Please post your questions in the chat





INTRODUCTION TO GIT

Florian Wörister – TU Wien

Born and raised in Upper Austria
Masters Degree in Software Engineering (TU Wien)
Working at the Center for Research Data Management





INTRODUCTION TO GIT

Alexander Spinn – University of Innsbruck

Born and raised in Bolzano, Italy
Masters Degree in Chemistry
Working in IT at the UIBK since 2015





Introduction to Git











Software to manage versioning, letting you make and track local changes and push them to a remote repository

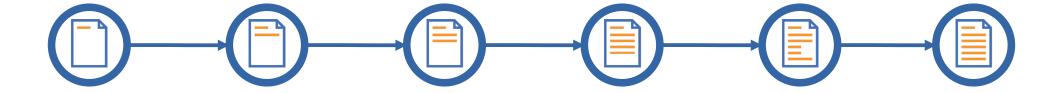




Cloud services to host remote git repositories. They include additional features like issue tracking or access control.

Version Control Systems - Keep track of changes

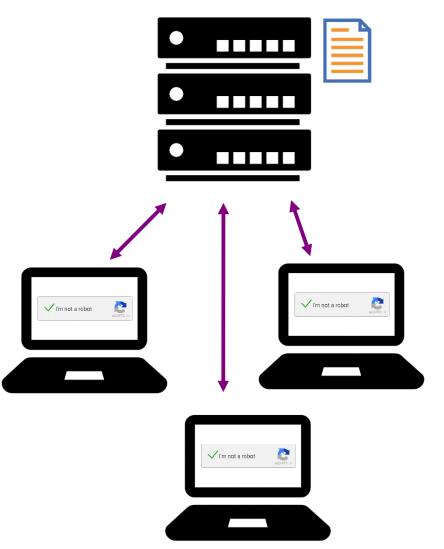




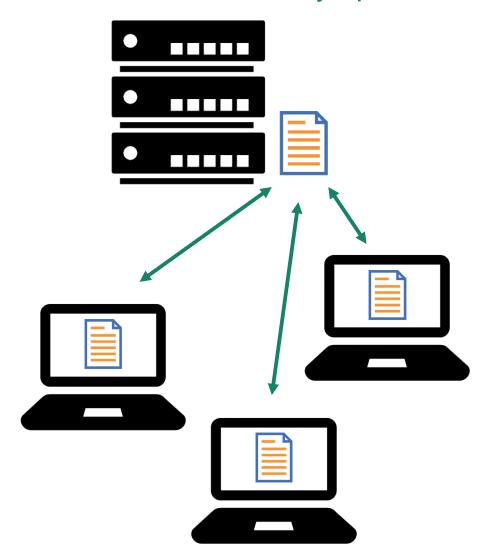
Version Control Systems - Centralized and Distributed



Login & edit remotely



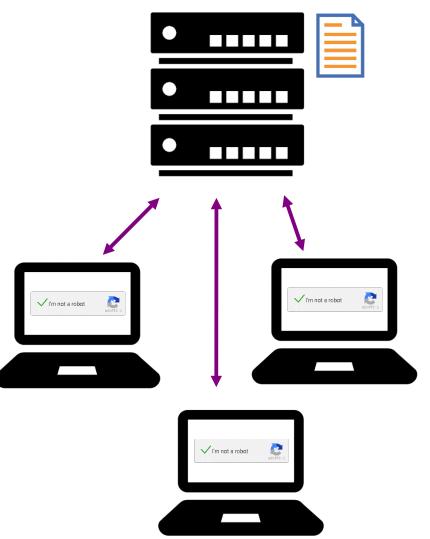
Pull - edit locally - push

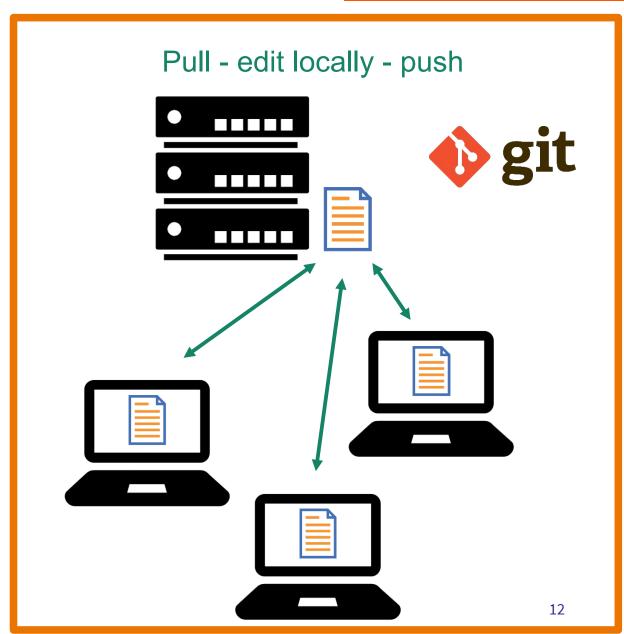


Version Control Systems - Centralized and Distributed









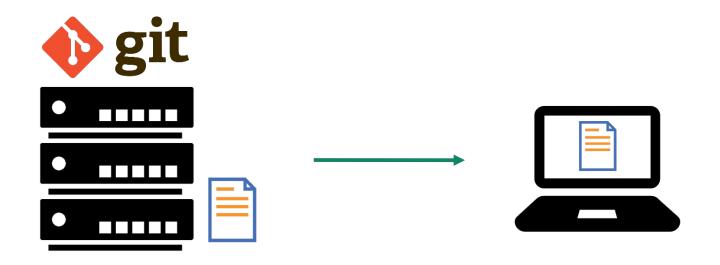
git - Remote server and local client











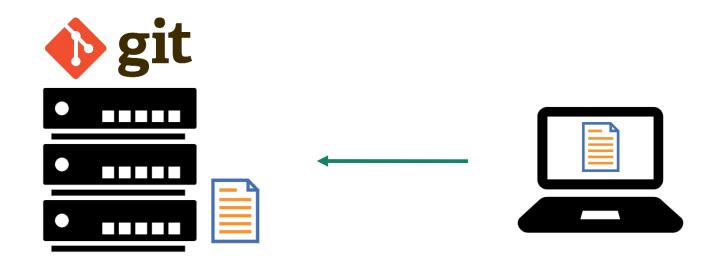
git - Edit and commit











git - Commit done

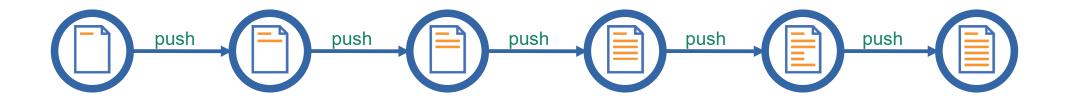






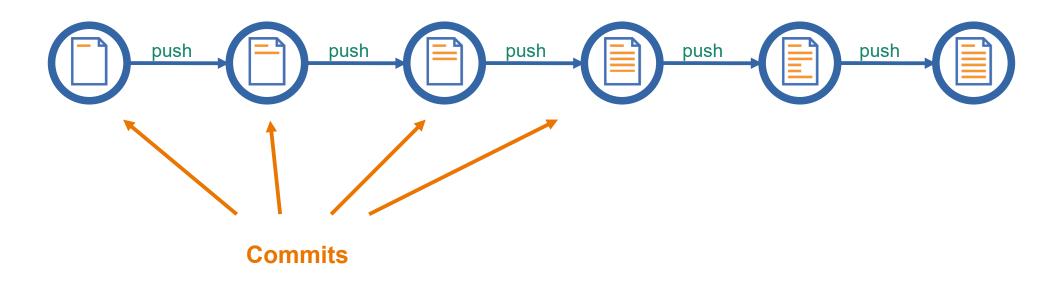






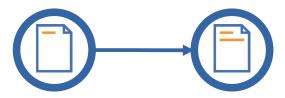












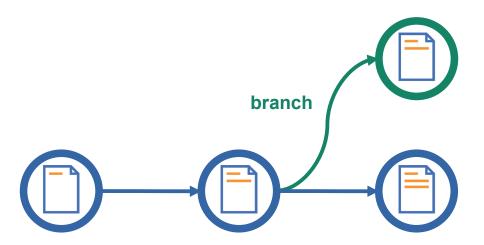






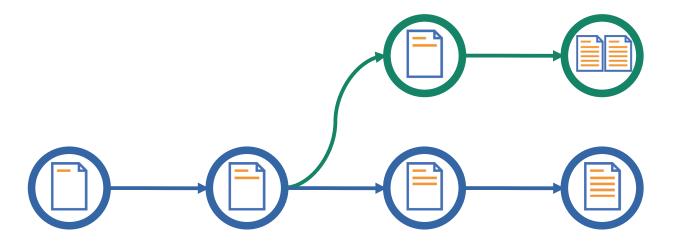






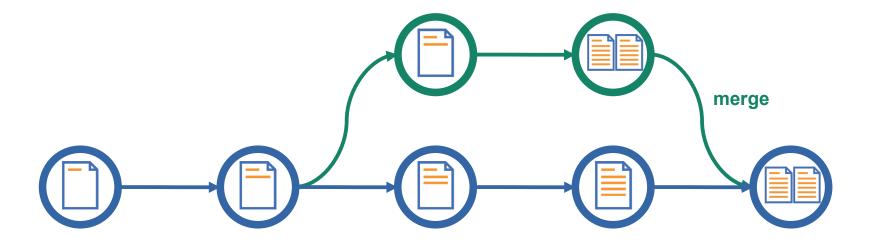






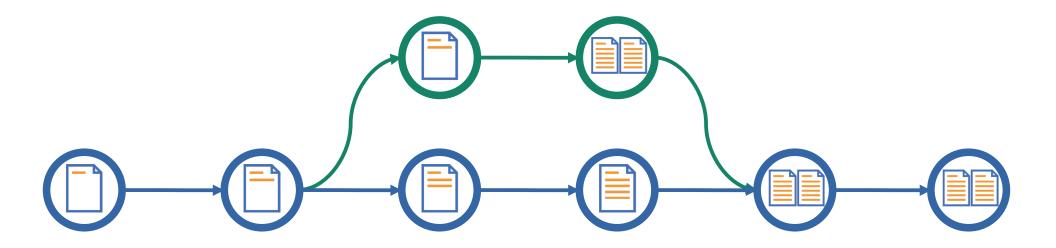






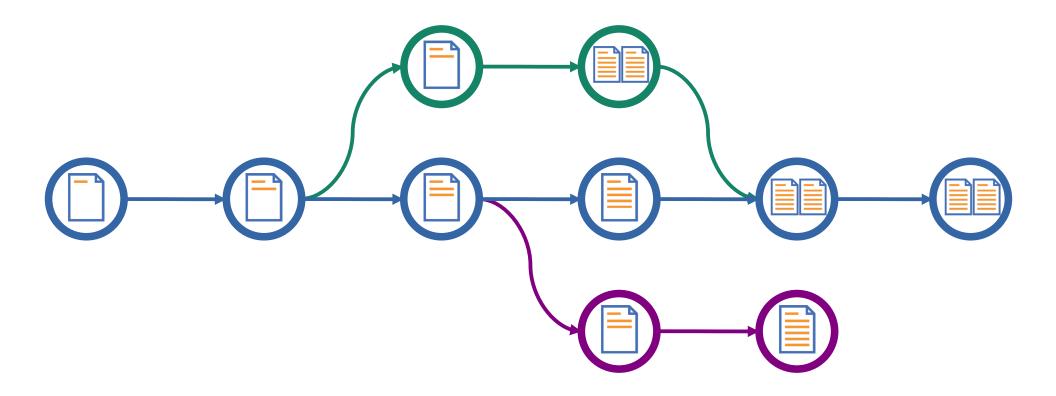






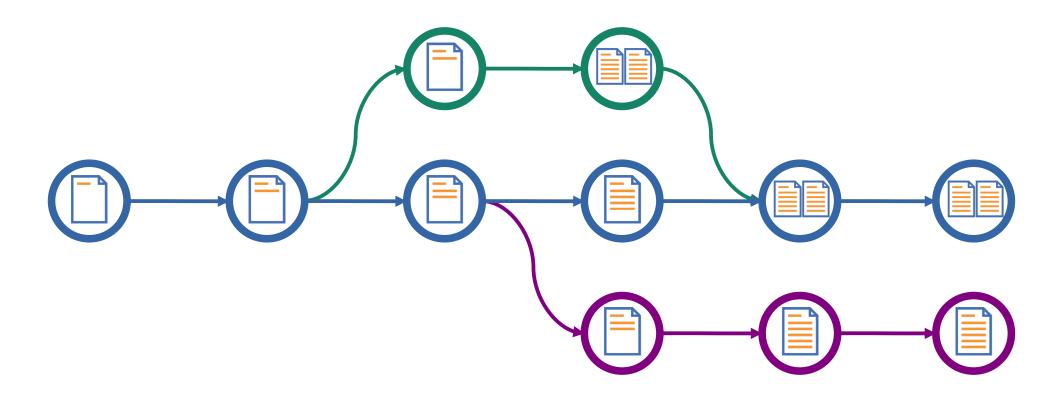






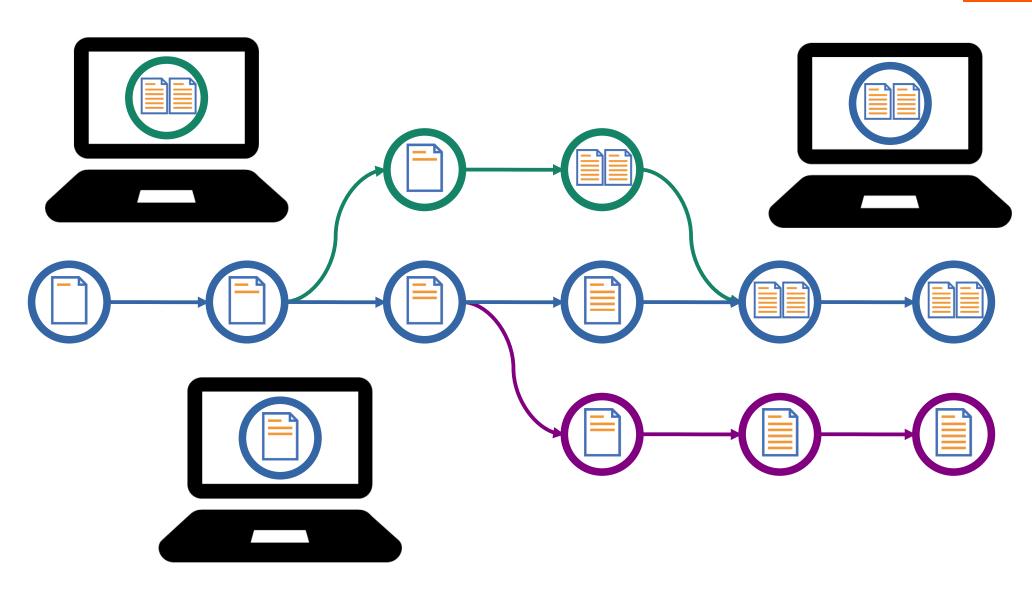
















Link to the repository containing the summary:

https://gitlab.com/florianwoerister/fdm-git-workshop-handson



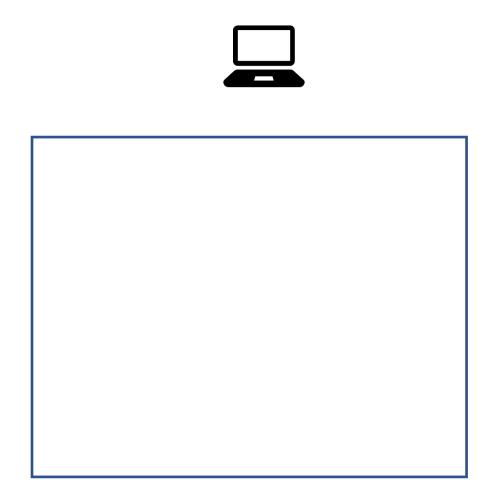
The Scenario

"After going through the README file, we discovered, that there is a section missing that lists additional training material. We have a bunch of links we want to add to that page. In addition, we are not allowed to add changes to the main branch of this repository... But how are we going to do that??"

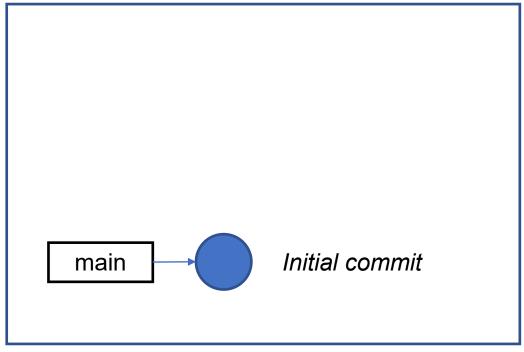


How are we solving this?

- 1. Clone the repository to local machine
- 2. Create new branch "add-trainings-material"
- 3. Commit trainings material to branch "add-trainings-material"
- 4. Push changes back to GitLab Server
- 5. Create a "Merge Request"
- 6. Review "Merge Request"
- 7. Merge "add-trainings-material" into "main"



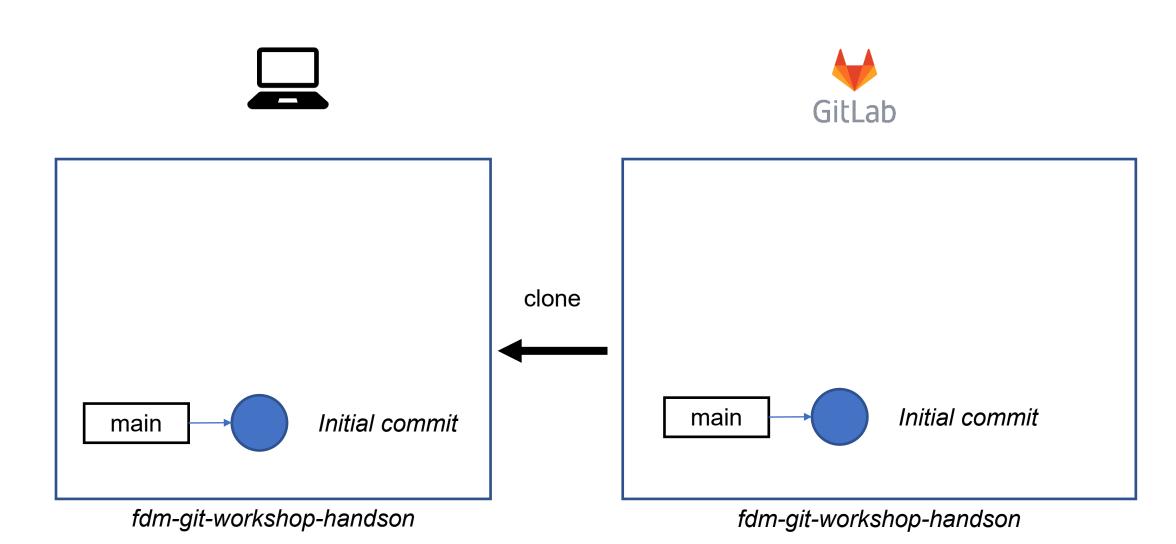




fdm-git-workshop-handson



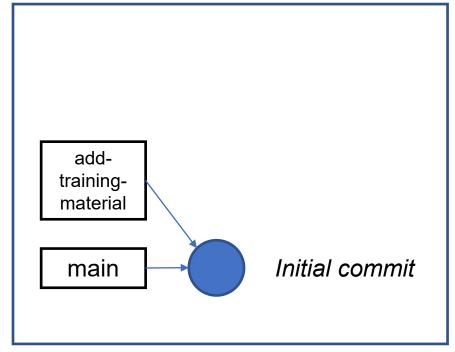
git clone ...





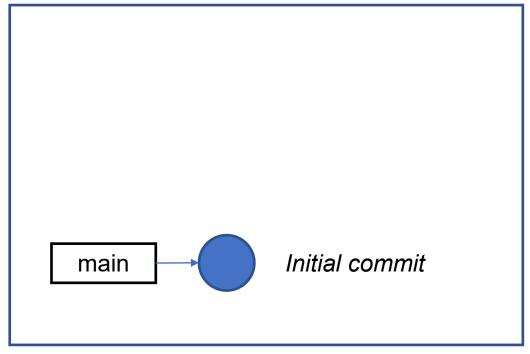






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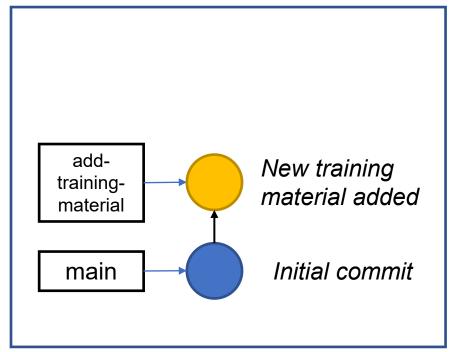


fdm-git-workshop-handson



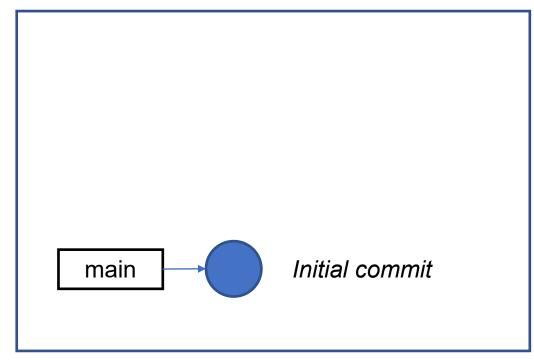
git add README.md git commit -m COMMENT





fdm-git-workshop-handson





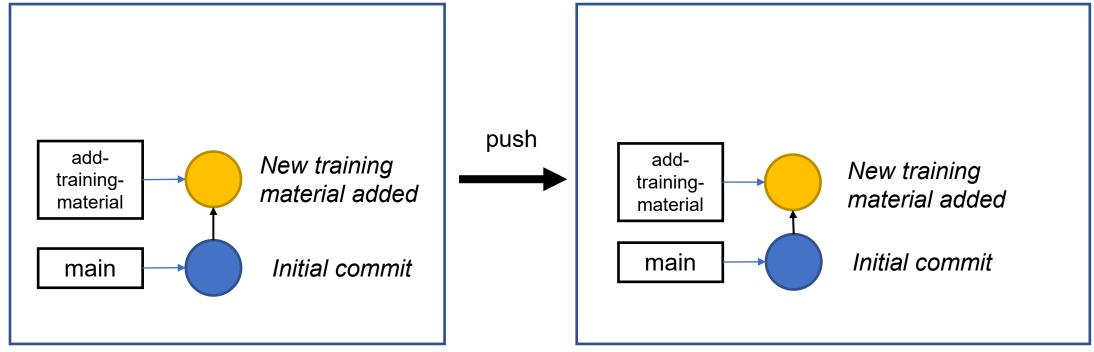
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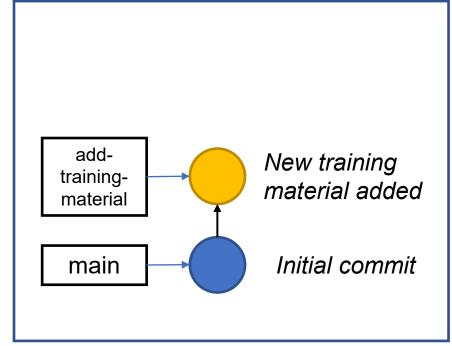
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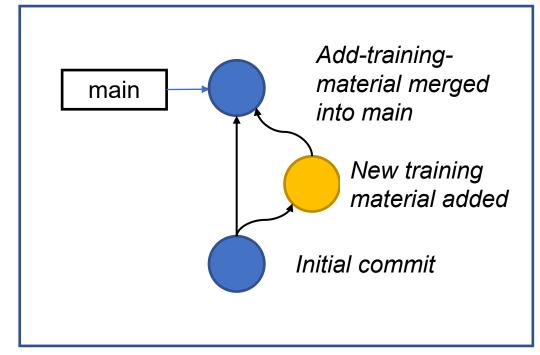






fdm-git-workshop-handson





fdm-git-workshop-handson





SAVE THE DATE

GENERATING SYNERGIES BETWEEN OPEN EDUCATION AND OPEN SCIENCE

https://forschungsdaten.at/en/fair-data-austria/materials/generating-synergies-between-open-education-and-open-science/

20 January 2022, 10:00-11:00 am, online

METADATA FOR RESEARCH DATA

https://forschungsdaten.at/en/fair-data-austria/materials/metadata-for-research-data/

2 February 2022, 10:00-11:30 am, online

FAIR RESEARCH INFRASTRUCTURE AT INSTITUTIONS - USING THE EXAMPLE OF THE UNIVERSITÄT INNSBRUCK

https://forschungsdaten.at/en/fair-data-austria/materials/fair-research-infrastructure-at-institutions/

22 February 2022, 10:00-11:00 am, online





THANK YOU FOR YOUR PARTICIPATION & ATTENTION!