

Introduction to Git — Fall 2021

Lecture A: Course info



Slides: <https://hackmd.io/@hpc2n-git-2021/LA-intro#/>

Introduction to Git

This course will be an introduction to version control, with a strong focus on Git.

Instructors:

- Pedro Ojeda-May (HPC2N)
- Birgitte Brydsö (HPC2N)
- Diana Iusan (UPPMAX)

The course will have a mixture of lectures and hands-ons, and will be split into modules. It will consist of four half-days.

Introduction to Git - continued

- The lectures will be done in the main Zoom room.
- Most modules will have hands-ons. These are done in the main Zoom room, but with the possibility to go to break-out rooms for help.
- Some hands-ons will be done locally on your own computer and some will be done using GitHub.
- If there is a problem using your own computer, the backup solution is logging in to Kebnekaise and using that.
- The hands-ons for the module named “Teamwork” will be done in small groups, using GitHub.

Introduction to Git - continued

- During the hands-ons you can just ask the instructors if there is anything you need help with.
- You can ask in the chat, but the recommended option is using the Google docs file for Questions and Answers (Q&A). The link can be found on the “Important information” page. Please write any questions you have during the lectures etc. to the Q&A page. The instructors will try to answer as quickly as possible.
- Scroll down on a slide page to get to access the slides in a text form (small pen icon)

Overview

1. day

- 0. Setup and intro
- 1. Motivation
- 2. Basic concepts
 - Blobs, Trees, Commits, References, etc.
- 3. Basics commands, part 1
 - Creating & cloning repositories, Adding files, Committing, etc.

2. day

- 3. Basics commands, part 2
 - Creating & cloning repositories, Adding files, Committing, etc.
 - Hands-on
- 4. Commits
 - History, Tags, HEAD, Diffs, etc.
 - Hands-on

3. day

- 5. Branches
 - Basics concepts, Creation, deletion, Conflicts, etc.
 - Hands-on
- 6. Working with remotes
 - Basics concepts, Pull, push, fetch, GitHub, etc.
 - Hands-on

4. day

- 7. Teamwork
 - Hands-on
- Catch-up from previous days