Git & Github Workshop

10.07.2024 – Bence Mitlasoczki & Lena J. Gschossmann
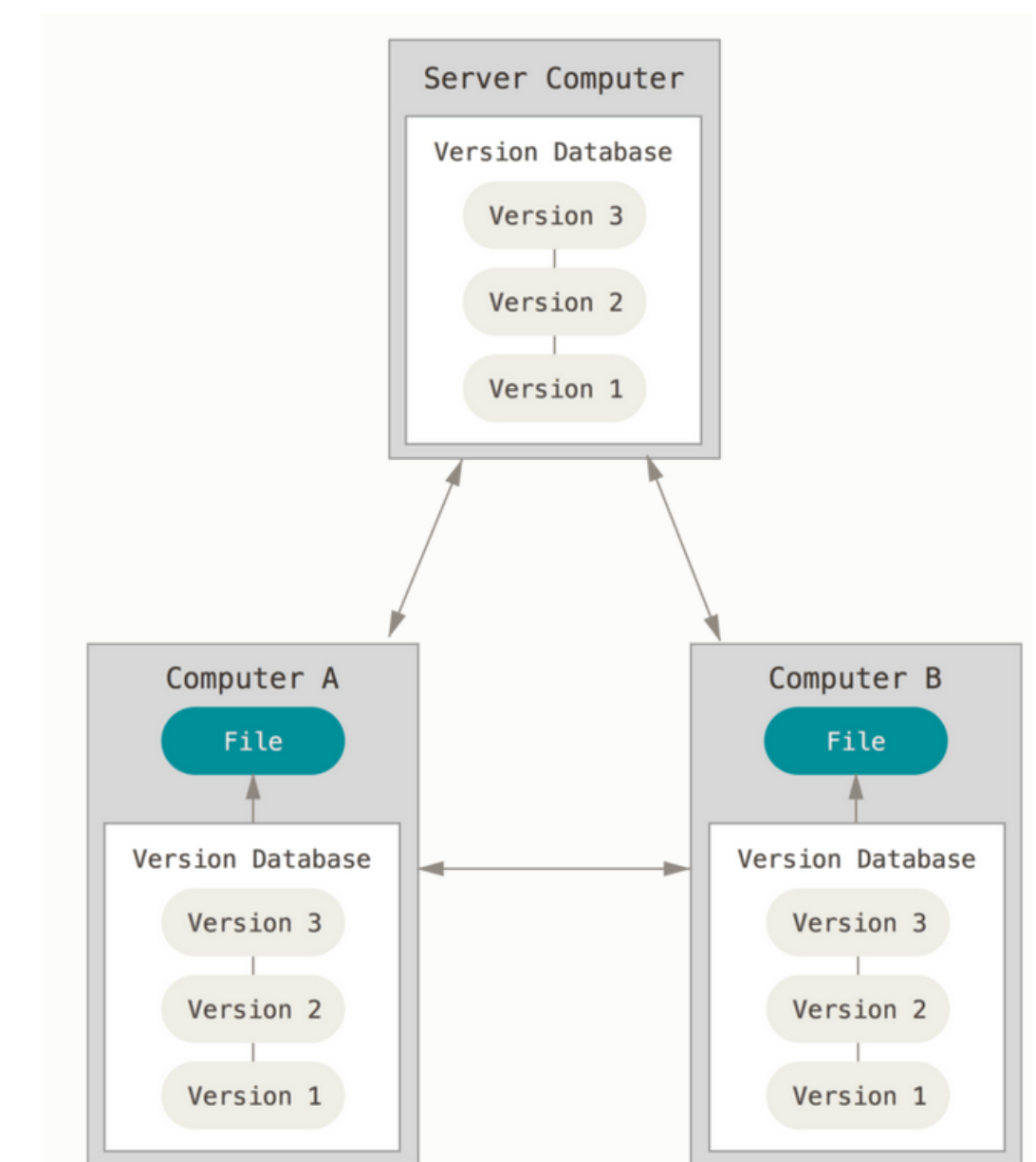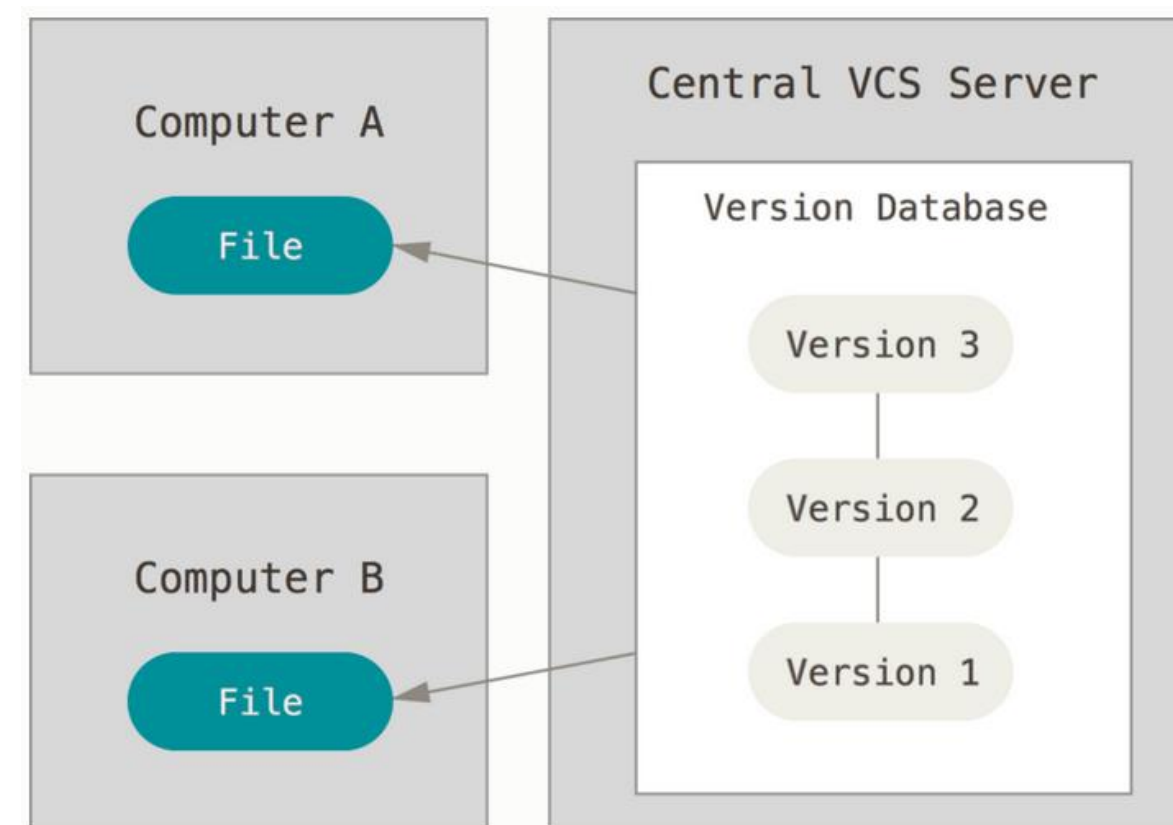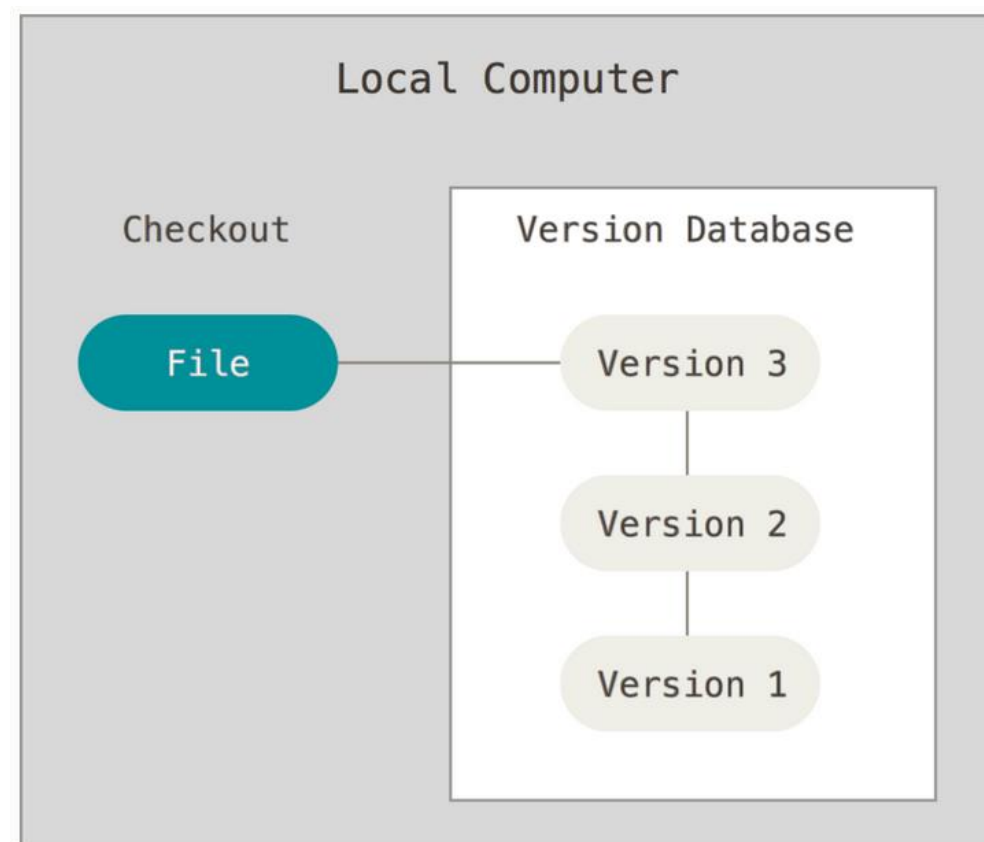
Motivation & Goal

NOT using version control (and writing clean code)

= extremely time and ressource **inefficient** for yourself and others.

The **goal** of the workshop is to **enable everybody** to go back and **use version control** right away.

About Version Control Systems (VCS)

VC as you may do it: Copy files and rename them before changing something.

Local VCS: Local database to keep changes to local files under revision control.

Centralized VCS: Server with version database and multiple clients that make changes to files.

Distributed VCS: Server with version database and multiple clients which mirror this database.

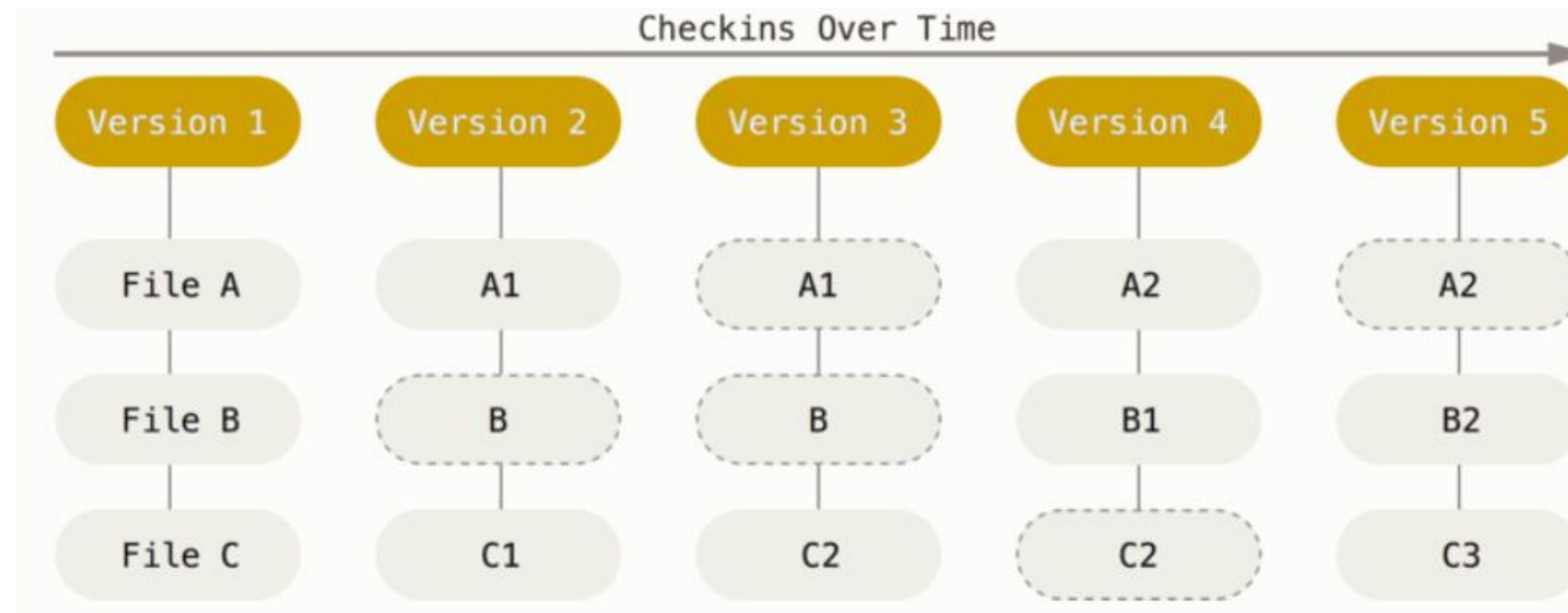# git – the most popular VCS (but not the only one)

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„a stream of **snapshots**"

„ makes Git more like a mini filesystem […] rather than simply a VCS"

„impossible to change the contents of **any file** or directory without Git knowing about it" (by checksumming files)

Github

- Developer platform

- Provides Git's distributed version control

- Many other features:

  …allows easy sharing of code

  …allows bug reports and discussions

- If ever needed, it will be your programming portfolio

Let's get started

Module 1   Setting it up (10 min)

Module 2   Local version control with Git (30 min)

Module 3   Remote version control with Git & Github (30 min)

Module 4   Basics of Visual Studio Code Git integration (5-10 min)

Module 5   What makes a good repository (20-30 min)