Wednesday, February 17, 2021 9:27 PM

2 hours lesson

- WHY DO WE NEED IT?

- Made a mistake? Go back
- Document versions / modifications
- Collaborate with people on same projects
- Keep Track of multiple versions of same files

- WHAT IS IT?

- It's the practice of managing and Tracking files for a project
- It can take the shape of many softwares → Repositories per project

VERSION CONTROL SYSTEMS:
- Git
- Helix Core Perforce
- Microsoft TFS

- Local vs Remote Repositories

- EXAMPLES / APPLICATIONS

- Most common to track & manage source code → Python or R packages
- Track and manage a document (manuscript / thesis ...)
- Share publicly files / code for an open source project → PUBLICATION REP.
- Keep track of stable version while working on development version
- Quick save "status" of project/folder while working
- Improve modify existing projects while keeping ~~the~~ original untouched → BLOG

- BASIC WORKFLOW / GOOD PRACTICE

- Create / Clone
- Modify files
- Add
- Commit with description
- Push to remote rep.

DIAGRAM

- Add ReadMe file
- Commit frequently
- Branch correctly → Merge at end
- Always fetch new modifications before working
- Don't have uncommitted modifications locally

- SIMPLE SHOW CASE WITH GITHUB

- Create simple repository → students can clone
- Have the files on your laptop
- Modify something → show workflow
- Create and show branching
- Show merge conflict & how to solve?

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