# 06. VCS, Git



## Lecture

Version control, Git



- Track changes in a set of files
- Coordinating work among developers
- · Who made what changes and when
- Revert back at any time
- Local and remote repos
- Take snapshots of files by making a commit

#### **Install**

sudo apt install git

#### **Basic commands**

```
git init  # Initialize local git repo
git add <file>  # Add file/files to staging area
git status  # Check status of working tree and staging area
git commit -m "What I've done"  # Commit changes in index
git push  # Push to remote repository
git pull  # Pull latest changes from remote repo
git branch <new_branch_name>
git checkout <brackless  # Merge the branch into the current branch
git config --global user.name "Istvan Szabo"
git config --global user.email "istvan.szabo@gmail.com"
```



Personal token megjegyzése: git config --global credential.helper store



Windows és Linux óra probléma megoldása: timedatectl set-local-rtc 1 --adjustsystem-clock

#### **GitHub**



git remote git clone # Copy repo into a new directory # Add remote to repository: git remote add origin <link> git push -u origin master



Some alternatives to GitHub

GitLab, BitBucket, Launchpad, Phabricator

### Markdown

- Markup language, easy to read
- Text file  $\rightarrow$  Formatted document

- Widespread usag, e.g., blogs, forums, documentations, readme files, GitHub
- Markdown Cheatsheet

## Gyakorlat

### 0: GitHub repo létrehozása

- 1. Inicializáljunk egy lokális git repo-t a ros-course package-ben.
- 2. Regisztráljunk GitHub-ra, majd hozzunk létre egy private repo-t a ros\_course package számára. Állítsuk be a local repo-ban a remote-ot, majd push-oljuk a package tartalmát.