Seminar on

git GitHub

Udyat
https://udyat-miet.github.io

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INTRODUCTION

What is Git?

- Keeps track of changes to code.

- Synchronizes code between different people.

- Allows to revert changes to any previous state

INSTALLING GIT

Windows

- Download windows installer from https://git-scm.com

Ubuntu

- sudo apt install git

Fedora

- sudo dnf install git

GitHub

1. **GitHub is a web-based service for hosting Git repositories**
2. **It also adds many of its own features on top of git functionality**

git clone

git clone

- Copy repository from online source (remote) onto our machine

git add

git add <filename>

- Tells Git to include this file in next revision to the repository

- In terms of Git, `git add` adds the given files to the "changelist" or "staging area"

- `git add --all` or `git add .` adds all changed files to the changelist

git commit

git commit -m "message"

- Saves the changes to the repository as a new revision ("commit")

- Commit messages should summarise the changes made to repository, e.g., "Add input dialog", "Create animations", etc.

git reset

git reset <filename>

- Reverts changes without removing them from disk. Simply rollback `git add .` step

- `git reset <filename>` could be used to revert changes for specific file

git reset --hard

- Removes all the changes and reverts repository to the last revision

git add & git commit in a single step

git commit -am "message"

- Equivalent to running `git add --all` followed by `git commit -m "message"`

- `-a` flag tells Git to add all changed files to this commit

git push & git pull

git push

- Sends recent commits to remote repository

git pull

- Retrieves new changes (commits) from the remote repository

Flashback

1. **git clone**
2. **git add**
3. **git commit**
4. **git reset**
5. **git push & git pull**

Other useful git commands

git init, git status, git diff, git log, git stash, git revert, git checkout, git branch, git remote

THANK YOU!

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