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university software group projects

collaboration
backup
deployment and maintenance



version control systems

Version control system records the changes made to our code over time in a special database called repository.



Collaboration Version History Branching and merging Backup



2 types

1. **Centralized:** MS Team Foundation, Subvision
2. **Distributed:** Git, Mercurial

Git

1. free
2. open-source
3. super-fast
4. scalable

Git vs GitHub

same or different?

Git

distributed version control system

GitHub

a web-based Git repository hosting service



Git and GitHub

version control systems

GitHub

Repository

a place where you can store your code, your files, and each file's revision history.

Git

Git

1. CLI
2. Code Editor: ex: GitLens
3. GUI
4. etc.

Git Flow

(apx. 2/3 approaches)

Download Git

Config Git

1. System
2. Global
3. Local



/localWorkingDir



Staging Area



Local Repository



Remote Repository



let's begin..

1

start with a new repo

2

cloning a repo | fork

SOPs



Thank you!