

# (Distributed) Version Control System

- **Git**
  - DVCS
  - keeps track of all versions
  - local repository, sync with remote repositories
  - clone repository, push, pull
  - branching and merging

# Git

- git init
- git add
- git log
- git status
- git diff
- git commit
- git show
- git blame
- git clone
- git push
- git pull
- git checkout
- git clean/reset/revert
- git branch
- git merge

# Version and Team Collaboration management

- [Bitbucket.org](https://bitbucket.org) or [Github.com](https://github.com), Redmine, ...
  - remote public or private repositories (Git, Mercurial)
  - forking and merging
  - issue tracker – bugs, features, enhancements
  - documentation systems – wiki
  - collaboration tools

# Comparison: SVN, Mercurial, GIT

Subversion (SVN)	Mercurial (Hg)	Git
svn add	hg add	git add
svn blame	hg blame	git blame
svn cat	hg cat	git show
svn checkout	hg clone	git clone
svn commit	hg commit ; hg push	git commit -a ; git push
svn delete/remove	hg remove	git rm
svn diff	hg diff	git diff, git diff --cached
svn help	hg help	git help
svn log	hg log	git log
svn revert	hg revert	git checkout -f
svn status	hg status	git status
svn update	hg pull --update	git pull
svn move/rename	hg move/rename	git mv

# Project management tools

- MS Project
- OpenProj, Project Libre
- Gantt Project
- Redmine