Git

Distributed Source Version Control

Git

History for a collection of files.

- 1. Record changes to the files
- 2. Revert to an older state
- 3. Share the files with multiple people

Terminology

Repository: Contains the history

Branches: Separate code line with its

own history.

Tags: Checkpoint

Commit: Commit the changes

Revision: Version of a source code

(SHA1 ids)

latest version: HEAD

the one before that HEAD~1 and so on

Setup Git info

git config --global user.name "Your Name" git config --global user.email "your@e-mail"

Getting Started with Git

- \$ cd source_folder
- \$ git init
- \$ git add.
- \$ git commit -am "Initial commit!"

Done!

The usual routine

- Develop source code
- If new files are to be added to the source code tree
 - \$ git add <source_file>
- When you feel it's right
- \$ git commit -am "Explanatory commit comment"

Working with a global Repository

- Use an online service to host your git repositories (www.github.com)
- Create a repository and get the git url https://github.com/mpekatsoula/SoftwareEngineering.git
- Then enter the local repository \$git remote add origin <URL> \$git push -u origin master

Working with a global Repository

- Clone a repository
- \$ git clone < URL>
- Work as if it was created by you
- Important: Add each member of the team as a collaborator in GitHub.

Useful Git commands

- \$ git status
- \$ git log
- \$ git diff >> to create a patch
- \$ git checkout
- \$ git revert
- \$ git commit --amend

For more Information

http://git-scm.com/documentation

https://help.github.com/