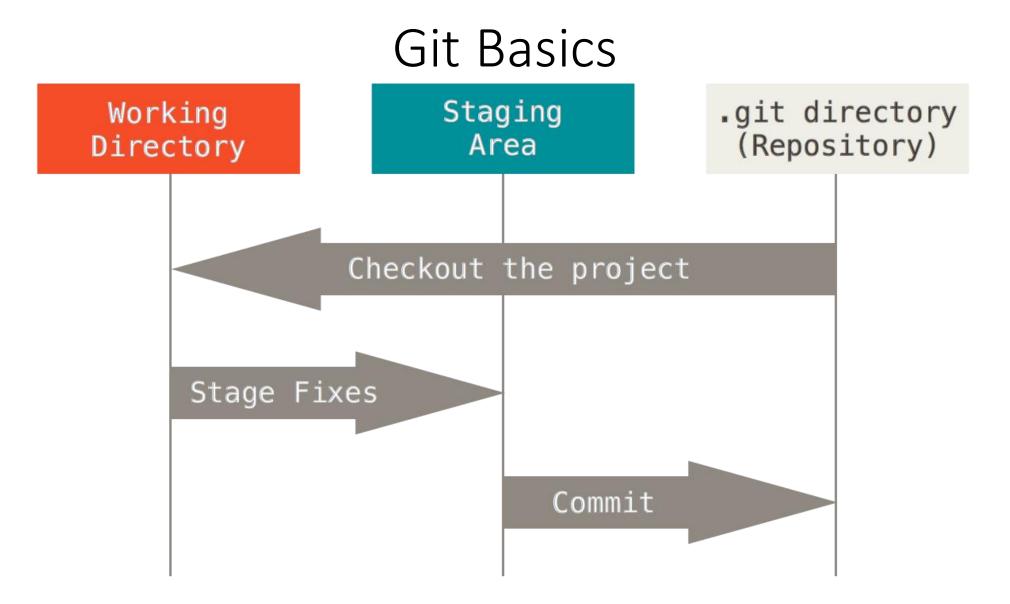
# Git in Computer Science Department

1 April 2016

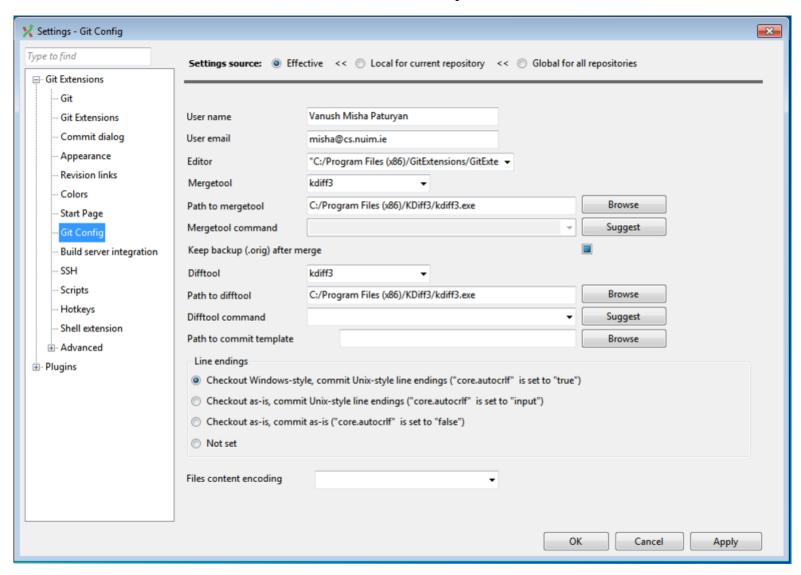


#### Windows: Installing Git Extentions

- <a href="https://github.com/gitextensions/gitextensions/releases">https://github.com/gitextensions/gitextensions/releases</a>
- GitExtensions-2.48.05-SetupComplete.msi also available from J: drive
- Make sure to install MsysGit
- Make sure to install KDiff
- Choose OpenSSH as SSH Client
- Sometimes KDiff's installer stays under Git Extentions' window: bring it up and accept license agreement etc
- MsysGit asks about adjusting PATH: leave setting as default "Use Git Bash only"

#### Git Extentions: Initial Setup

- Run Git Extentions
- Click on "Tools -> Settings"
- Click on Git config
- Put your name in "User name"
- Put your emial in "User email"



#### Windows: password-less login

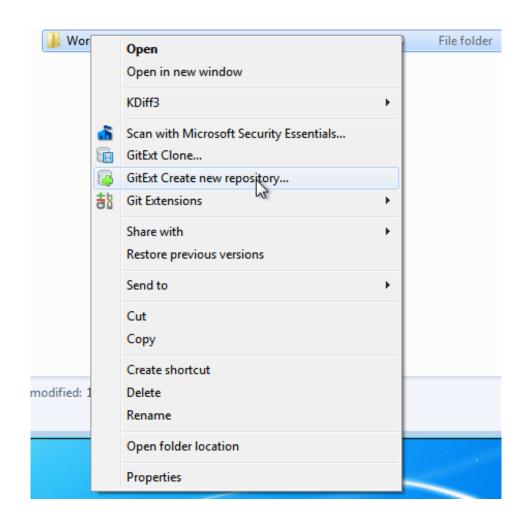
- Click on "Tools -> Git Bash" in Git Extentions (A "cmd.exe" window should open)
- Type ssh-keygen
- Accept default values to all questions (by pressing Enter)
- Type scp ~/.ssh/id\_rsa.pub <login>@git.cs.nuim.ie:
- (replace < login > with your login)
- (enter your password)
- Double-check that there were no errors!

## Windows: password-less login (cont.)

- Connect to the server and put the public key in its proper place:
- In the shell: type ssh <login>@git.cs.nuim.ie
- (and enter your password again)
- Your prompt should change, it should say "<login>@git:~\$"
- Type mkdir -p .ssh
- Type cat id\_rsa.pub >> .ssh/authorized\_keys
- Exit from server by typing "exit"
- Connect to the server again (this time it should not ask for the password)

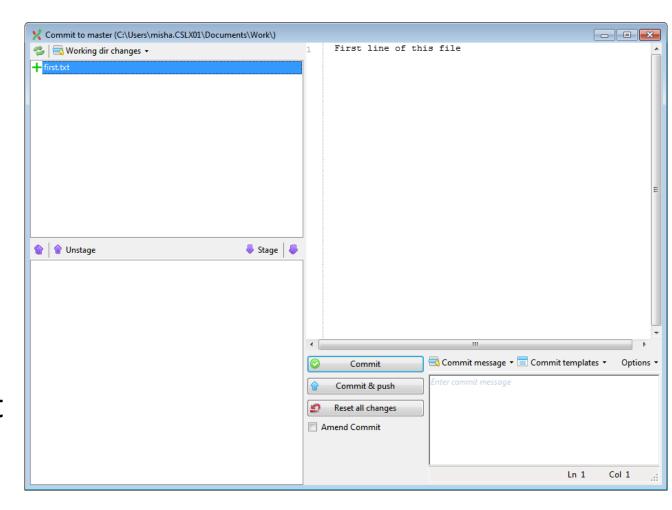
#### First local repository

- Assumption: you have all your work in a folder named "Work".
- In the Windows Explorer, navigate to "Work", right-click and choose "GitExt Create new repository"
- (the Git shell command is "git init")



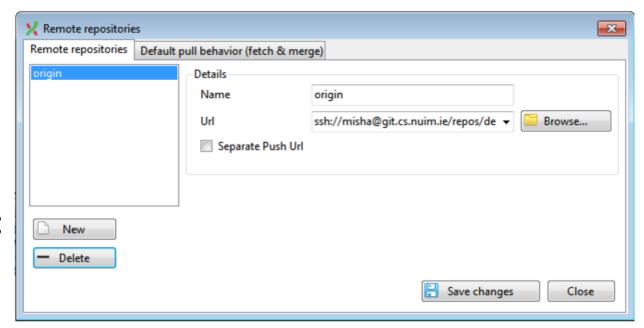
# Adding files and commiting

- Right-click on the folder and choose "GitExt Browse"
- Click on "Commit" button to commit some files.
- Pick files from the top that you want to put into repository and stage them (CLI: git add)
- When all files you want to be part of one commit are staged enter the comment and Commit them (CLI: git commit)



#### Remote repositories

- In GitExtentions: click on "Repository -> Remote Repositories"
- Click on "New", give it name "origin", and add Url in the form: ssh://<login>@git.cs.nuim.ie/rep os/2016/desem/<login>
- (replace < login> with actual login)
- (CLI: git remote add origin <url>)



## Remote: pull before you push

Make sure to pull from the remote before pushing to it!

