



GIT Cheatsheet



Local Repositories



Configure User Identity

Initialize or Clone a Remote Repository

Adding User Email
 git config --global user.email "kulbhushan.mayer@thinknyx.com"
Adding User Name
 git config --global user.name "Kulbhushan Mayer"

- # Initialize a local GIT repository
 git init # Inside a folder location to create new local repo
- # Clone a remote GIT repository
 git clone https://github.com/[github-username]/[repository-name].git

Examine History and State of Repository

- # Show working tree Status OR changed files in your working directory git status
- # Checking Commit Logs
 git log # To check latest logs
 git log branch-name # to check logs for specific branch
 git log -v # to check detailed logs
 git log --oneline # to check limited details
- # Show Changes between Commits/Branches git diff source-commit-id target-commit-id git diff source-branch target-branch

Adding Changes to the Local Repository

- # Add a changed file (new file, modified file) to the staging area git add [file-name.txt]
- # Add all new or modified files in workspace to the staging area git add -A
- # Commit changes git commit -m "[commit message]"
- # Remove a file/folder and stage the change git rm -r file-name OR git rm -f folder-nme
- # Move or Rename a file/folder and stage the change git mv file-name newfile-name OR git mv folder-name newfolder-name
- # Discard Changes in workspace git restore file-name
- # Discard Staged Changes git restore --staged file-name



Branching & Merging



```
# List branches (where * in the output signifies the current local branch)
  git branch # List all local branches
  git branch -r # List all remote branches
  git branch -a # List all local & remote branches
# Create new branch
 git branch [branch-name] # Create Branch from Current Branch
 git branch [branch-name] [source-branch-name] # Create Branch from a specific Branch
 git branch [branch-name] [source-commit-ID[ # Create Branch from a specific commit Branch
# Switch to a branch
  git switch [branch-name] # To switch to a existing branch
  git switch -c [branch-name] # Create a new Branch and Switch to the same
# Rename a local branch
 git branch -m [branch-name] [new-branch-name]
# Deleting a branch
 git branch -d [branch-name] # Delete a local branch
 git branch -D [branch-name] # Delete an unmerged branch
 git push origin --delete [branch-name] # Delete a remote branch
# Merging a Branch
 git merge [source-branch-name] # Merging to current branch
 git merge [target-branch-name] [source-branch-name]
```



Synchronize and Collaborate



Setting up remote repository

git remote -v # List all Configured Remote URL

git remote add origin https://github.com/[github-username]/[repository-name].git # Add New Remote URL

git remote set-url origin https://github.com/[github-username]/[repository-name].git # Updating existing remote URL with new URL

Getting Updates from Remote Repositories

git fetch origin # Sync Updates from Remote Repository to Local Repository

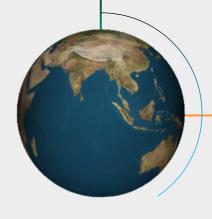
git merge [target-branch-name] origin/[remote-branch-name] # To merge remote branch to Local branch

git pull origin [remote-branch-name] # Get changes from specific remote branch and get it merge in current local branch

Update Local change to Remote Repository

git push origin master # Publish local changes on a remote repository









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Reach out to us at:

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