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GIT Cheatsheet



Local Repositories

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Configure User Identity

Adding User Email

```
git config --global user.email "kulbhushan.mayer@thinknyx.com"
```

Adding User Name

```
git config --global user.name "Kulbhushan Mayer"
```

Initialize or Clone a Remote Repository

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-name
```

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

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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

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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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