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| --- | --- |
| ls -a | list all files with hidden files or folder  git --version |
| git config --global user.name {"username"} | to set user name in local git |
| git config --global user.email {"email"} | to set user email in local git |
| git config --list | show all Git config properties throughout all the variously scoped Git files |

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| --- | --- |
| git init | to create empty git repository folder |
| git status | to check status of files  //status-untracked : created new files that git does not track  //status-modified : files modified which are commited track files  //status-staged : files ready to commit from stage  //status-unmodified : not modified any file |

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| --- | --- |
| git clone {Github\_Repo\_URL} | to copy GitHub file to local pc |
| git clone ssh://git@github.com/[username]/[repository-name].git | Create a local copy of a remote repository |

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| --- | --- |
| git add {file\_name} | to add file in stage from working directory. |
| git add . | to add all files in stage from working directory. |
| git add -A | Add all new and changed files to the staging area |

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| git commit -m “{Message for Changes}” | to commit files from the stage into local directory. |
| git rm -r {file-name} | Remove a file (or folder) |

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| --- | --- |
| git remote add origin {Github\_Repo\_URL} | to set GitHub repository as origin to push |
| git remote -v | to check remote origin |

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| --- | --- |
| git push origin {branch\_name} | to push committed files to origin branch of remote Github. |
| git push -u origin {branch\_name} | to push committed files to origin branch of remote Github. ‘-u ’ to remember branch so next time we can omit ' origin branchname ' . we just use git push. |
| git push | to push committed file to remembered origin branch |

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| --- | --- |
| git pull | update local repository to newest commit |
| git pull origin {branch\_name} | Update local repository from modified remote github repository. |

// master branch is default branch in local git and main branch is default branch in remote GitHub repository

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| --- | --- |
| git branch | to check branches (asterisk denotes the current branch) |
| git branch -a | to check all branches local and remote. |
| git branch {branch\_name} | to create new branch |
| git checkout -b {branch\_name} | to create new branch and switch to it |
| git branch -d {branch\_name} | to delete branch |
| git push origin –delete {branch\_name} | to delete remote branch |
| git branch -m {old\_branch\_name} {new\_branch\_name} | to rename local branch |
| git branch -m {new\_branch\_name} | to rename current branch |
| git checkout {branch\_name} | to switch to branch |
| git checkout - | to switch to last checked out branch |

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| --- | --- |
| git diff | to compare working file with stage file |
| git diff --staged | to compare staged file with last commited file |
| git diff {source\_branch} {target\_branch} | Preview changes before merge |

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| git log | to check all commited logs. |
| git log --summary | to check all logs in details. |
| git log --outline | to check all logs in briefly. |

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| --- | --- |
| git checkout {commit\_ID} | to get committed file using commit id. |
| git checkout {file\_name} | to get last committed file. |

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| --- | --- |
| git checkout -f | to recover all commited files. |

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| --- | --- |
| git merge {branch\_name} | to merge branch to current branch |
| git merge {source\_branch} {target\_branch} | to source branch into target branch |

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| --- | --- |
| git reset {file\_name} | reset staged file to commited file. |
| git reset | to reset multiple staged files to commited files. |
| git reset HEAD~1 | set head to second last commited. |
| git reset {commit\_ID} | set head to specific commited ID. |
| git reset --hard {commit\_ID} | set head to specific commited ID and reflects in file. |