GIT Cheat Sheet

Linux commands

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| To move to the previous directory | cd .. |
| This will add an empty file in current working directory. | touch sairam.txt |
| This will add a new file and insert the file content. | echo Ranjith > sairam.txt  echo Name: Ranjith > Rajagopal/Ranjith.txt |
| This will add a content in the existing file name. If file not exists it will create a new file. | echo Ranjith >> sairam.txt |
| This will delete the file on the current working directory. | rm sairam.txt |
| This will rename the file from filename to filename1. If file not found, it will throw an error. | mv sairam.txt ram.txt |
| This will move the file from one path to another path with same of different name. | mv sairam.txt newpath/sairam.txt  (OR)  mv sairam.txt newpath/ram.txt |
| To display all the content in the directory | ls |
| To display all the content including hidden files in the directory | ls -a |
| To delete the file or folder | rm -rf .git  rm -rf sairam.txt  rm -rf Rajagopal/Ranjith.txt |

Git Global Config

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| Set the user name globally. | git config –-global user.name “Ranjith Rajagopal” |
| Set the user email globally. | git config –-global user.email “ranji.r@gmail.com” |

Initialize a repo

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| Initialize a new repo. | git init |

Clone a repo

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| Clone the repo to local directory. | git clone <https://github.com/Demo.git> |
| Clone the repo to the destination path. | git clone <https://github.com/Demo.git> C:/temp/test/ |

View Status

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| Full status | git status |
| Shorthand status | git status -s |

Staging Files

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| Stages a single file | git add sairam.txt |
| Stages a multiple file | git add sai.txt ram.txt |
| Stages with a pattern | git add \*.txt |
| This will stage only the modified and deleted files | git add -u |
| Stages all the file in the current working directory and child directory and it will ignore any files which start with “.” e.g. .gitignore | git add \* |
| Stages all the file in the current working directory and child directory also it will add any files which begins with “.”e.g. .gitignore | git add . |
| Stages all files in the working directory of git | git add -A |

Undo the staging Change

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| When we add the changes behind the scenes git add a temporary head. This command will remove the temporary head. Note: This is not useful command | git reset --soft |
| This command will remove the temporary head and move the files to working directory. This command will mark the file as untracked or unmodified. | git status --mixed |
| This command will permanently remove the files both from staging and working area. | git status –-hard |
| This command will undo the staging changes for one file. Meaning this command will change the file status from staging area to working directory | git reset sairam.txt  OR  git reset HEAD –- sairam.txt |
| To clear all the files on staging area | git clean --f |

View log

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| Full log status | git log |
| Shorthand log status | git log –-oneline |
| Shorthand log status with last n commits | git log –-oneline -5 |

Commit the files

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| This command will commit the files in the current directory. Meaning it will push the file from staging area to git repo | git commit -m “Initial Commit” |
| This command will commit the files only from staging area. It will skip any files available on working directory | git commit -am “Initial commit” |
| To revert to the old commit. This command will keep the history and it will add the changes a new commit. | git revert f6hg6t3y |
| This command will delete all the commits in the git. DON’T USE THIS COMMAND. | git reset –-hard f6hg6t3y |
| You can revert a range of commits using commit hashes | git revert 0d1d7fc..a867b4a |
| This will revert the last two commits. | git revert HEAD~2..HEAD |

Push

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| To push the changes to remote | git push origin master |
| To Push the changes to upstream | git push upstream master |

To view the detailed commit

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| Shows the given commit | git show 921a2ff |
| Shows the last commit | git show HEAD |
| Two steps before the last commit | git show HEAD~2 |
| Shows the version of file.js stored in the last commit | git show HEAD:file.js |

Branch

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| To create new branch | git branch branchname  OR  git branch newbranchname oldbranchname |
| To show all branch | git branch |
| To checkout to new branch | git checkout branchname |
| To delete the branch | Git checkout -d branchname |

Merge

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| To merge the branch with another branch | git merge branchname |

Display remote details

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| This will display the git origin details | git remote -v |
| To display the git version installed | git version |