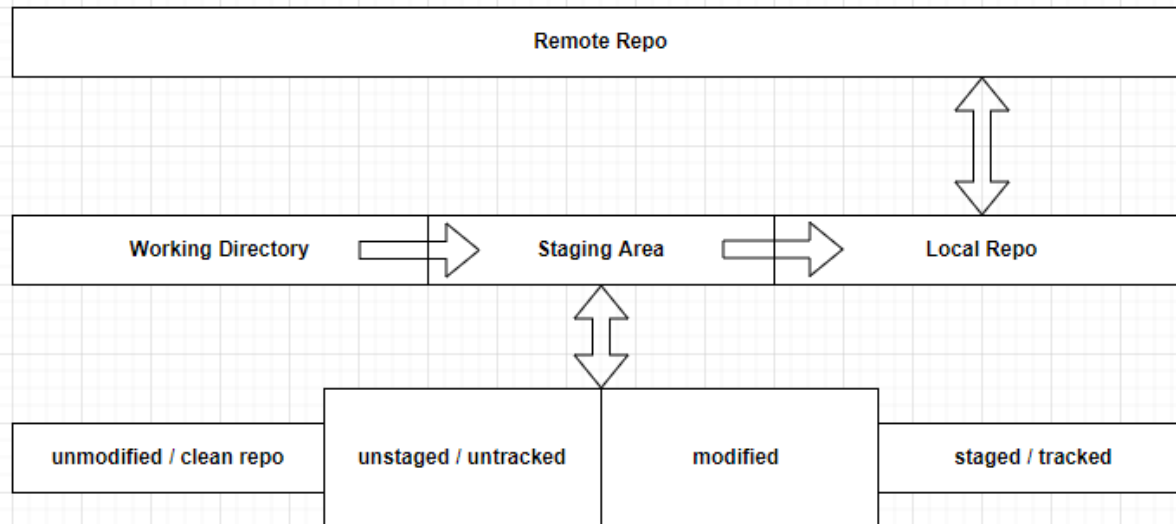
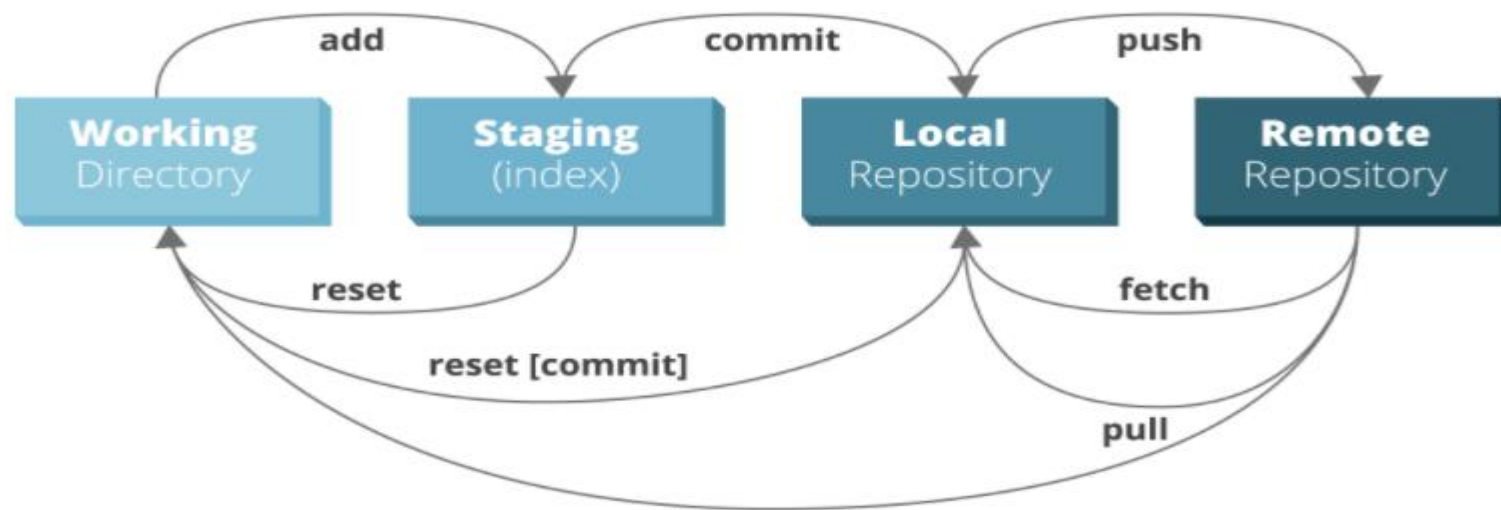
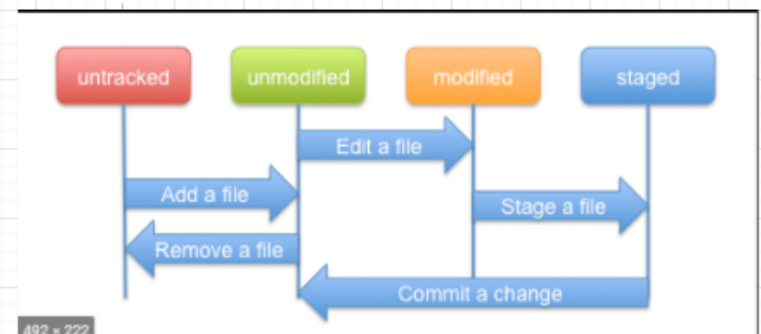
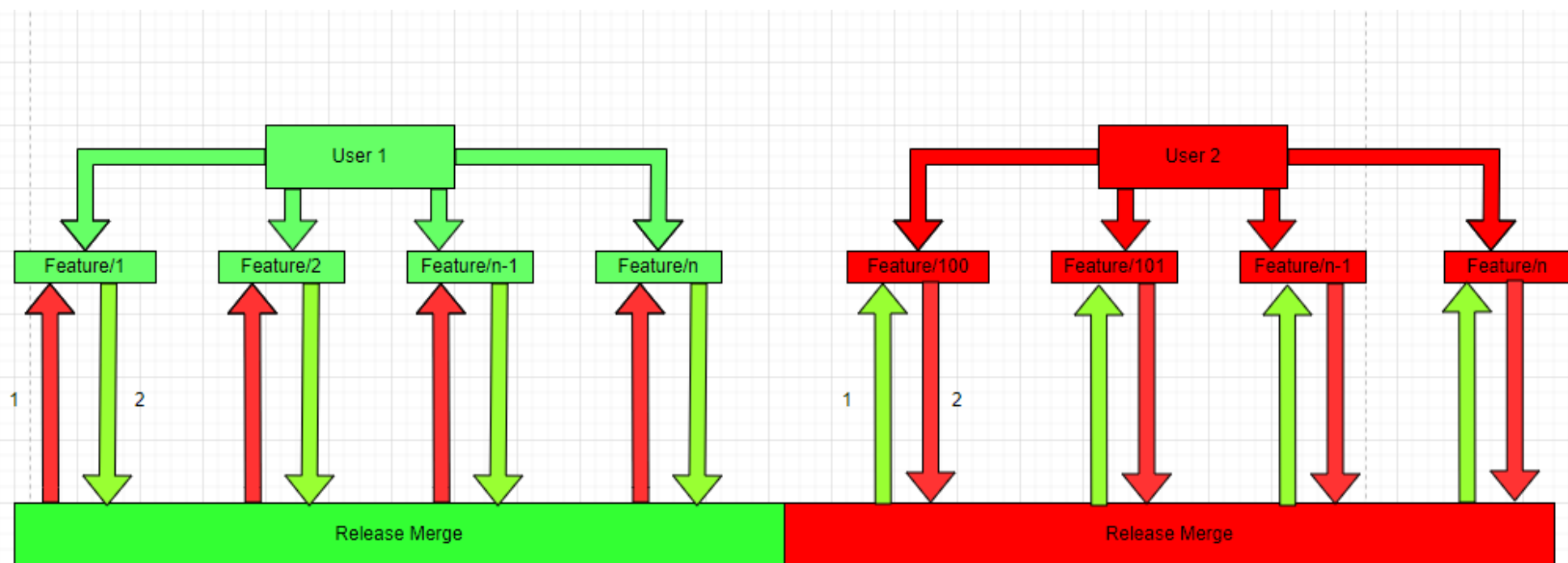
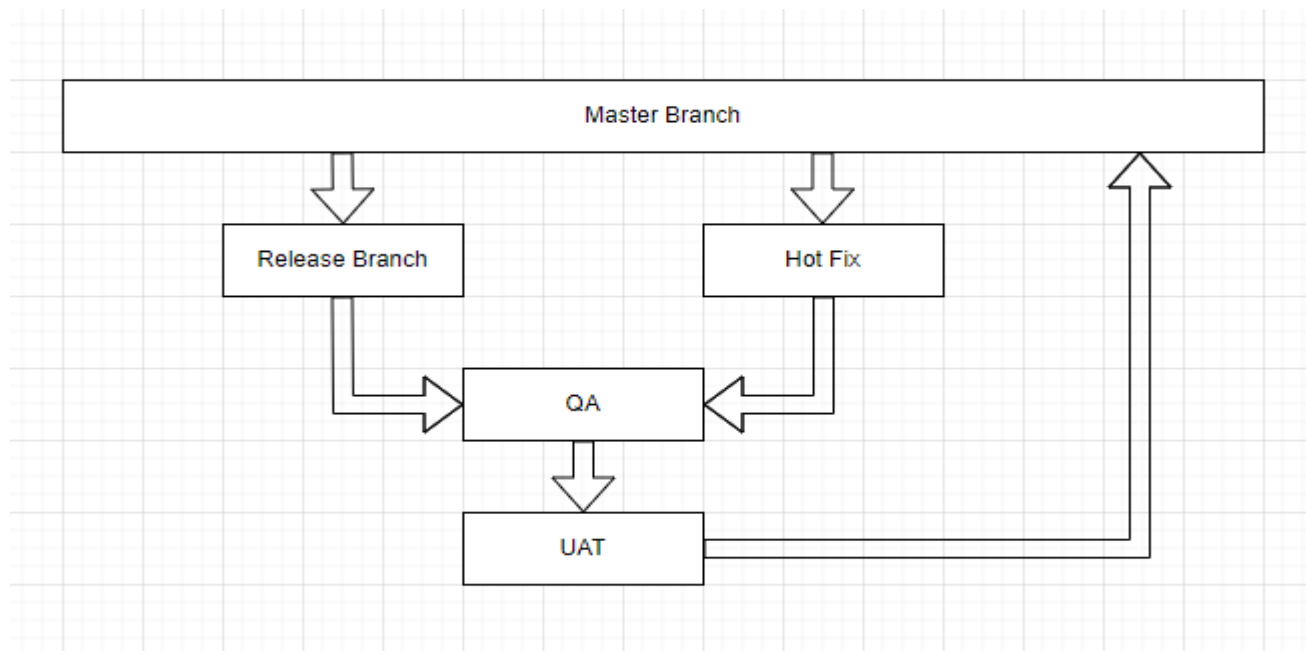


GIT Cheat Sheet



Unstaged Means - **NEW FILE** - User added a new file but git doesn't add the file to stage
 modified means - **EXISTING FILE (Modified)** - git already tracked the file, user modified the file





Linux commands

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

Git Version

| | |
|---------------------------------------|--------------------------|
| To display the git version installed. | <code>git version</code> |
|---------------------------------------|--------------------------|

Display remote details

| | |
|---|--|
| This will display the git origin details. | <code>git remote -v</code> |
| To add an origin | <code>git remote add origin https://github.com/Demo.git</code> |

Git Global Config

| | |
|------------------------------|---|
| Set the user name globally. | <code>git config --global user.name "Ranjith Rajagopal"</code> |
| Set the user email globally. | <code>git config --global user.email "ranji.r@gmail.com"</code> |

Initialize a repo

| | |
|------------------------|-----------------------|
| Initialize a new repo. | <code>git init</code> |
|------------------------|-----------------------|

Clone a repo

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

View Status

| | |
|-------------------|----------------------------|
| Full status. | <code>git status</code> |
| Shorthand status. | <code>git status -s</code> |

Staging Files

| | |
|---|-------------------------|
| 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 the 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 the child directory also it will add any files which begins with "."e.g. .gitignore. | git add . |
| Stages all files in the working directory of the git. | git add -A |

| | New Files | Modified Files | Deleted Files | |
|-------------------|-----------|----------------|---------------|--|
| <u>git</u> add -A | ✓ | ✓ | ✓ | Stage All (new, modified, deleted) files |
| <u>git</u> add . | ✓ | ✓ | ✗ | Stage New and Modified files only |
| <u>git</u> add -u | ✗ | ✓ | ✓ | Stage Modified and Deleted files only |

Undo the staging Change

| | |
|--|--|
| Remove the changes in working directory | git restore sairam.txt or git restore . |
| 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 reset --mixed |
| This command will permanently remove the files both from staging and working area. | git reset --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 |
| Clear all the files on the staging area. | git clean --f |

Commit the files

| | |
|---|--|
| This command will commit the files in the current directory. Meaning it will push the file from staging area to git repo. | <code>git commit -m "Initial Commit"</code> |
| This command will commit the files only from the staging area. It will skip any files available on working directory. | <code>git commit -am "Initial commit"</code> |
| This command will delete the following commits from the git. DON'T USE THIS COMMAND. Please be aware the following commit shouldn't be pushed to remote. | <code>git reset --hard f6hg6t3y</code> |
| This will revert the last two commits. | <code>git revert HEAD~2</code> |
| This command will keep the history and it will revert to the older commit. This command will preserve the older commit history. | <code>git revert f6hg6t3y</code> |

To view the detailed commit

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

View log

| | |
|--|-----------------------------------|
| Full log status. | <code>git log</code> |
| Shorthand log status. | <code>git log --oneline</code> |
| Shorthand log status with last 5 commits. | <code>git log --oneline -5</code> |
| To view the log in reverse order (from first commit to last commit). | <code>git log --reverse</code> |

Branch

| | |
|----------------------------|--|
| To create new branch. | git branch branchname OR git branch newbranchname oldbranchname OR git switch bugfix |
| To show all branch. | git branch |
| To checkout to new branch. | git checkout branchname |
| Creates and switches. | git switch -C bugfix |
| To delete the branch. | git branch -d branchname |

Push

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

Stash

| | |
|---|--|
| Creates a new stash. This command will add the changes from working directory to stash and it will clear the working directory. | git stash OR git stash push -m "New tax rules" |
| Lists all the stashes. | git stash list |
| Applies the given stash to the working directory. | git stash apply 1 |
| Deletes the given stash. | git stash drop 1 |
| Deletes all the stashes. | git stash clear |

Merge

| | |
|---|--|
| Merges the bugfix branch into the current branch. | <code>git merge bugfix</code> |
| Creates a merge commit even if FF is possible. | <code>git merge --no-ff bugfix</code> |
| Performs a squash merge. | <code>git merge --squash bugfix</code> |
| Aborts the merge. | <code>git merge --abort</code> |

Cherry pick

| | |
|---|--------------------------------------|
| The command will act like a merge. It will merge the specific commit to the destination branch. | <code>git cherry-pick dad47ed</code> |
|---|--------------------------------------|

Rebase

| | |
|---|--------------------------------|
| Changes the base of the current branch. | <code>git rebase master</code> |
|---|--------------------------------|

Tag

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|-------------------------------|-----------------------------------|
| Tags the last commit as v1.0. | <code>git tag v1.0</code> |
| Tags using a commit. | <code>git tag v1.0 5e7a828</code> |
| Lists all the tags. | <code>git tag #</code> |
| Deletes the given tag. | <code>git tag -d v1.0 #</code> |

Rename or move files

| | |
|---|---|
| This command will remove the files from working directory and staging area. | <code>git mv fileone.js filetwo.js</code> |
|---|---|

Remove Files

| | |
|--|--|
| This command will remove the files from working directory and staging area. | <code>git rm file.js</code> |
| This command will remove files only from staging area. | <code>git rm --cached file.js</code> |
| This command will remove all the folder and it sub directories recursively (-r means recursive). | <code>git rm -r --cached myFolder</code> OR <code>git rm -rf <directory_name></code> |