**Configurations**

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| --- | --- |
| **Git Configure** | |
| User Name | * git config --global user.name "Mohamed Shaban" |
| Email | * git config --global user.email "official.mohamedshaban@google.com" |

**Best Conventions**

|  |  |
| --- | --- |
| **Committing (best conventions)** | |
| List of files changed/added/deleted | * git status |
| See changes done on file | * git diff [file] |
| Stage specific file ( NEVER USE ‘GIT ADD . ) | * git add [file] |
| Commit staged files | * git commit -m “message” |

**Staging Files**

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| --- | --- |
| **Add/Remove (Stage)** | |
| Remove file from stage | * git reset [file] |
| Remove folder/file from track  (when .gitignore not work) | * git rm -r --cached frontend/.dart\_tool/\* * git rm --cached [file] |

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| **Commits** | |
| Amend last commit  ([docs](https://stackoverflow.com/questions/40503417/how-to-add-a-file-to-the-last-commit-in-git)) | * git add . * git commit --amend --no-edit |

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| **Discard Changes (**[**here**](https://stackoverflow.com/questions/52704/how-do-i-discard-unstaged-changes-in-git)**)** | |
| Discard changes to all files | * git checkout -- . |
| Discard changes to single file | * git checkout -- [path/to/file] |

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| --- | --- |
| **Stash (save files to stash)** | |
| save to stash | * git stash save -u "system messages"   (-u) to include new files/dirs |
| list | * git stash list |
| apply | * Specific * git stash apply stash@{n} |
| drop | * Specific * git stash drop stash@{n} * All * git stash clear |

|  |  |
| --- | --- |
| **git mv (**files to another directory - preserve file history**)** ([docs](https://stackoverflow.com/questions/18667308/move-file-and-directory-into-a-sub-directory-along-with-commit-history)) | |
| Create directory | * mkdir -p folder/destination |
| Move files | * git mv source/\* folder/destination |
| Commit changes | * git commit -m "message" |

|  |  |
| --- | --- |
| **git mv (**entire folder into another - preserve file history**)** ([docs](https://stackoverflow.com/questions/18667308/move-file-and-directory-into-a-sub-directory-along-with-commit-history)) | |
| Create directory | * mkdir -p folder/destination |
| Move files | * git mv source/ folder/destination/source |
| Commit changes | * git commit -m "message" |

**Branches**

|  |  |
| --- | --- |
| **Get Branches** | |
| * Fetch all branches | |
| for b in `git branch -r | grep -v -- '->'`; do git branch --track ${b##origin/} $b; done | |
|  |  |

**List All Branches**

Git branch

**Checkout to Branch**

Git checkout [branch name]

**Create Branch**

Git branch [branch name]

Or

Git checkout -b [branch name]

**Delete Branch**

Git branch -D [branch name]

**Merge two branches**

Ex merge “feature1” into “master” branch

Checkout to the branch you want to merge into (‘master’ in this case)

Git merge “feature1”