

# Git Commands

These are my personal notes on GIT.

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## Basic Commands

| Command                                   | Description                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| git clone <repository_url>                | Clone a repository                                                                                                                                 |
| git status                                | Display the status of your current branch.                                                                                                         |
| git add <file>                            | Add a file to the change list.                                                                                                                     |
| git diff <file>                           | See changes to a file                                                                                                                              |
| git commit -m "message"                   | Commit files in your change list.                                                                                                                  |
| git push                                  | Push your commit to the server (origin)                                                                                                            |
| git push -u origin <BRANCH>               | Push local branch to server                                                                                                                        |
| <b>git pull --rebase</b>                  | <b>Pull changes from the server and move your changes on top.</b><br><b>It is a good practice to rebase your changes so as to minimize merges.</b> |
| git checkout <branch>                     | Switch to a branch                                                                                                                                 |
| git log                                   | Show history of current branch                                                                                                                     |
| git log -2                                | Show history (limited to the last 2 entries)                                                                                                       |
| git log --pretty=oneline                  | Show history (One entry per line)                                                                                                                  |
| git log --pretty=format:"%h %<(20)%an %s" | Column formatted output                                                                                                                            |
| git remote -v show                        | Get git URL from source folder.                                                                                                                    |

## Branching Commands

| Command                         | Description                                 |
|---------------------------------|---------------------------------------------|
| git checkout -b <branch name>   | Create a branch from your local             |
| git push origin <branch_name>   | Push branch to server (origin)              |
| git branch                      | List local branches                         |
| git branch -r                   | List remote branches                        |
| git branch -d <local branch>    | Delete a branch and push to server(origin). |
| git push origin :<local branch> |                                             |

|                                                                                                                             |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| git fetch origin<br>git pull origin develop                                                                                 | Merge develop into current branch                               |
| git checkout <other_branch><br>git pull<br>git checkout <your branch><br>git merge <other_branch><br>git commit<br>git push | Merge another branch into yours                                 |
| git checkout <branch_to_rename>                                                                                             | Rename a branch                                                 |
| git checkout -b <new_branch_name>                                                                                           | This command will create a new branch from your current branch. |
| git add -i                                                                                                                  | Add files to git interactively                                  |

## Advance Commands

| Command                                                                                                   | Description                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| git reset <file>                                                                                          | Un-stage a file<br>Remove a file from add list                                                                                             |
| git checkout <file>                                                                                       | Revert changes to a file                                                                                                                   |
| git reset --hard                                                                                          | Reset all of your changes to your local branch.                                                                                            |
| git reset HEAD~1                                                                                          | Revert the commit.                                                                                                                         |
| <b>git clean -f</b>                                                                                       | <b>Remove files not under version control.</b>                                                                                             |
| git checkout HEAD <file>                                                                                  | Replace file from HEAD. Use to undelete and reset a deleted file.                                                                          |
| git config --get remote.origin.url                                                                        | Get URL of current Git repository.                                                                                                         |
| git remote show origin                                                                                    | Show Git repository information                                                                                                            |
| git reset --hard <GITREF><br>git push -f                                                                  | Revert the current branch to the specified gitref. (Rewinding). The push forced may be required to push this to origin.<br>DO NOT DO THIS! |
| git fetch origin<br>git rebase -i origin/develop<br>> delete commits that are not yours<br>write and exit | Fixup branch                                                                                                                               |

## Stash Commands

| Command                                  | Description                                       |
|------------------------------------------|---------------------------------------------------|
| git stash<br>git stash save <stash_name> | Stash your changes for later                      |
| git stash pop [ DON'T USE, USE APPLY ]   | Apply your stashed changes and remove from stash. |
| git stash list                           | List all stashes                                  |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| git stash apply <stash>        | Apply specific stashed changes to your local. |
| git stash branch <branch name> | Create a branch from the stash                |

## Tagging

| Command                | Description                      |
|------------------------|----------------------------------|
| git tag <tag>          | Create tag<br>ex: git tag v0.2.0 |
| git push origin --tags | Push tag to origin               |

## Git Documentation

See [Git Reference](#) for more info.