Git Commands

Configuration

Set user name and email

```
git config --global user.name "fvecchio"
git config --global user.email "fvecchio@galileocompany.com"
```

Show current configuration

```
git config --list
```

Set default editor

```
git config --global core.editor "nano"  # Sostituisci "nano" con il tuo
editor preferito
```

Submodules

Clone a repository with all submodules (including nested submodules)

```
git clone --recurse-submodules --remote-submodules <repository-url>
```

Init and update all submodules

```
git submodule update --init --recursive
```

Update all submodules to the latest remote branch

```
git submodule update --remote --recursive
```

Add a new submodule

```
git submodule add <repository-url> <path>
```

Delete submodules

```
git rm --force <submodule path>
git rm -rf .git/modules/<submodule path>
```

Branches

Create a new branch

```
git checkout -b <branch name>
```

Delete a branch

```
git branch -d <branch name>  # Usa -D per forzare la cancellazione
```

List branches

```
git branch
```

Switch between branches

```
git checkout <branch name>
```

Merge a branch

```
git checkout <branch name>
git merge <branch name>
```

Rename a branch

```
git branch -m <old branch name> <new branch name>
```

Commits

Add changes to the staging area

```
git add <file name>  # Usa "." per aggiungere tutti i file modificati
```

Commit changes

```
git commit -m "Commit message"
```

Amend the last commit

```
git commit --amend
```

Show commit history

```
git log
```

Show commit history with changes

```
git log -p
```

Show commit history with changes and stats

```
git log --stat
```

Revert a commit

```
git revert <commit-hash>
```

Reset to a specific commit

```
git reset --hard <commit-hash>
```

Stash

Save changes temporarily

```
git stash
```

List all stashes

```
git stash list
```

Apply the last stash

```
git stash apply
```

Drop the last stash

```
git stash drop
```

Remote Repositories

Add a remote repository

```
git remote add origin <repository-url>
```

List remote repositories

```
git remote -v
```

Remove a remote repository

```
git remote remove <remote-name>
```

Push changes to a remote repository

```
git push origin <branch name>
```

Pull changes from a remote repository

```
git pull origin <branch name>
```

Fetch changes without merging

```
git fetch origin
```

Tags

Create a new tag

```
git tag <tag-name>
```

Create an annotated tag

```
git tag -a <tag-name> -m "Tag message"
```

List tags

```
git tag
```

Push tags to a remote repository

```
git push origin <tag-name>
```

Delete a tag locally

```
git tag -d <tag-name>
```

Delete a tag remotely

```
git push origin --delete <tag-name>
```

Logs and Status

Show the working tree status

```
git status
```

Show a summary of changes (short format)

```
git status -s
```

Show detailed logs for a specific file

```
git log <file-name>
```

Rebase

Start a rebase

```
git rebase <branch-name>
```

Abort a rebase

```
git rebase --abort
```

Continue a rebase after resolving conflicts

```
git rebase --continue
```