Git Cheat Sheet

Create
Create a new local repository
$ git init
Download an existing repository with credentials in yellow.
$ git clone https://token@github.com:user/archivo-git.git

Configuration
Set a edit user name ("--global" default)
$ git config user.name [GitHub user name] **$ git config --global user.name [GitHub user name]**
Set a edit user email ("--global" default)
$ git config user.email [GitHub email] **$ git config --global user.email [GitHub email]**

Make a change
Add file to staging area (SA)
$ git add [file name]
Add all files to SA
$ git add .
Commit all staged files to versioned history
$ git commit –m "commit message"

Status
List new or modified files not yet committed
$ git status
Show the changes to files not yet staged
$ git diff
Show the changes to staged files
$ git diff --cached
Show all staged and unstaged file changes
$ git diff HEAD
Show the changes between two commit ids
$ git diff commit1 commit2
List the change dates and authors for a file
$ git blame [file]
Show the file changes for a commit id and/or file
$ git show [commit]:[file]
Show full change history
$ git log
Show change history for file/directory including diffs
$ git log -p [file/directory]

Working with Branches

List all local branches

```
$ git branch
```

Create a new branch called new_branch

```
$ git branch new_branch
```

List all branches, local and remote

```
$ git branch -av
```

Switch to a branch, my_branch, and update working directory

```
$ git checkout my_branch
```

Delete the branch called my_branch

```
$ git branch -d my_branch
```

Merge branch_a into branch_b

```
$ git checkout branch_b
$ git merge branch_a
```

Tag the current commit

```
$ git tag my_tag
```

Remove

Delete file from the directory and puts in the SA

```
$ git rm [file]
```

Remove the file from SA, but preserve the file at directory.

```
$ git rm --cached [file]
```

Synchronize

Get the latest changes from origin (no merge)

```
$ git fetch origin branch_a
```

Fetch the latest changes from origin and merge

```
$ git pull origin branch_a
```

Fetch the latest changes from origin and rebase

```
$ git pull –rebase origin branch_a
```

Push local changes to the origin

```
$ git push -u origin branch_a
```

Redo commits

Undoes all commits after [commit], preserving changes locally

```
$ git reset [commit]
```

Discards all history and changes back to the specified commit

```
$ git reset --hard [commit]
```

Remote Repository
Show the name of remote repository
$ git remote
Show the url repository vinculated
$ git remote -v
Link the local repository with the remote repository.
$ git remote add origin https://token@github.com:user/file-git.git
Show the remote repositories information
$ git remote show origin
Rename a remote repository
$ git remote rename origin [new_name]
Unlink a remote repository
$ git remote rm [git_name]