

GIT CHEAT SHEET

CREATE

Clone an existing remote repository

```
$ git clone https://github.com/...
```

Create a new local repository

```
$ git init
```

LOCAL CHANGES

List the status of your local repository

```
$ git status
```

Add all changes to the next commit

```
$ git add -A
```

Add a certain file to the next commit

```
$ git add <file>
```

Commit previously staged changes with a commit message

```
$ git commit -m "commit message"
```

Directly commit all local changes with a commit message

```
$ git commit -a -m "commit message"
```

Change the last commit

```
$ git commit --amend
```

COMMIT HISTORY

Show all commits, starting with newest

```
$ git log
```

Show changes over time for a specific file

```
$ git log -p <file>
```

Who changed what and when in <file>

```
$ git blame <file>
```

UPDATE & PUBLISH

List all currently configured remotes

```
$ git remote -v
```

Publish local changes on a remote repository

```
$ git push <remote> <branch>
```

Download all changes from remote repository and update local repository

```
$ git pull
```

BRANCH & MERGE

List all existing (local) branches

```
$ git branch
```

Create a new branch

```
$ git branch <new-branch>
```

Switch branches

```
$ git checkout <branch>
```

Merge <branch> into your current HEAD

```
$ git merge <branch>
```

UNDO

Removes a file from the staging area.

```
$ git reset <file>
```

Undo the last commit and preserve all changes as unstaged changes

```
$ git reset <commit>
```

Undo the last commit and discard all changes since then

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

Undo a merge (when you run into problems resolving conflicts)

```
$ git merge --abort
```