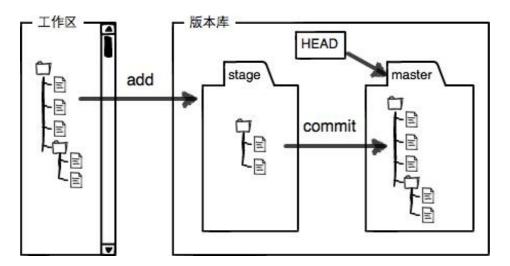
Basic Operation in Local



• Initialize a Git Repository

```
1. git init
```

This command will create a empty repository. There will be a .git floder which is used for tracking and managing repository.

• Adding File from Working Directory to Stage

```
1. git add [filename]
```

• Commit the changes in Stage to Local Repository

```
1. git commit -m "[commitment descriptions]"
```

Check Current Status

```
1. git status
```

Show the Differences

```
1. git diff
```

• Discard the Modifications in Working Directory

```
1. git checkout --[filename]
```

Actually, this command replace the file in working directory with the file in repository.

• Unstages the file

```
1. git reset Head [filename]
```

Just like delete the file in the stage, but in working directory, the file still preserves its contents.

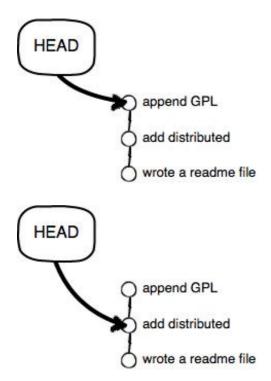
Remove File

```
1. git rm [filename]
```

• Renamce File

```
1. git mv [original filename] [new filename]
```

Version Control



• Lists Version History for the Current Branch

```
1. git log
```

• Back to Specific Commit

```
1. git reset --hard [commit id]
```

Branch Operation

• Lists all local branches in the current repository

```
1. git branch
```

Create new branch

```
1. git branch [branch name]
```

Branch Switch

```
1. git checkout [branch name]
```

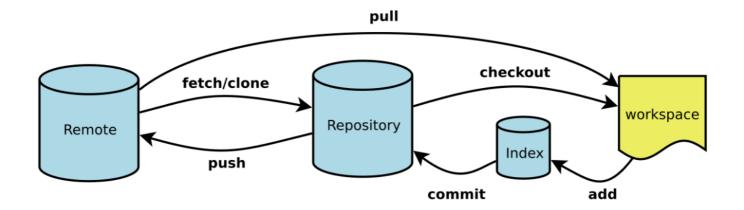
• Merge Another Banch to Current Branch

```
1. git merge [branch name]
```

Delete Branch

```
1. git branch -d [branch name]
```

Working with Remote Repository



Link Local Repository with Remote Repository

```
1. git remote add origin [url]
```

• Build a Local Repository Copy using Remote Repository

```
1. git clone [url]
```

• Get Remote Repository Infomation

```
1. git remote
```

• Upload Local Repository Modifications

```
1. git push [remote repository name] [remote brunch name]
```

Default remote repository name is origin

• Download Remote Repository Modifications

```
1. git pull
```

Reference

廖雪峰Git教程

Git使用教程