



## Introduction to Git Basic Commands - Cloud Repository

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### Note :

1. What ever is mentioned with in angular brackets(<>) are illustration of some sample names
2. This is just easy-to refer kick-start handout, may not help you all the years in the future becuse the version deprecations and new feature addons may comeup anytime
3. Its not meant for circulation outside the class-room

### Cloning a repository

```
1 | git clone <git-repository-cloning-url>
```

Makes a copy of the cloud repository on your local machine in the *PWD : Present Working Directory*

### Checking which branch are you in and list of other branches ?

```
1 | git branch
```

Lists all of your local branches, and current working branch with a star(\*) mark next to it

### Checking whats the status of your current working branch ?

```
1 | git status
```

Lists all the changes along with the branch information

## Creating a new branch ?

```
1 #Method 1
2
3 git checkout -B <new-branch-name> #Creates a branch from the current
  branch
4
5 #Method 2
6
7 git branch <new-branch-name>
8 git checkout <new-branch-name>
```

## Looking for the changes that you have made so far ?

```
1 git diff <file-name-optional>
```

Shows all the changes that are done with respect to the base branch

## Confirming to the local changes that you have made ?

```
1 #Method 1
2 git add <file-name> or --all or .
3 git commit
4
5 #Method 2
6 git add <file-name> or --all or .
7 git commit -m "Your brief message about the fix or feature"
```

## Sending all your local changes to the cloud repository from local repository ?

```
1 git push origin <current-branch-name>
```

## Updating your local repository with the new changes / updates in the cloud repository ?

```
1 | git pull origin <current-branch-name>
```

## Want to save and retrieve the local temporary changes after intermediate update ?

```
1 | git stash #to save local changes
2 | git stash pop #to retrieve the local changes that are saved at the last-time
```

## Want to update a branch with a changes from a different branch ?

```
1 | git checkout <branch-name> #of the branch that you want to update with
2 | git rebase <other-branch-name> #sometimes it might be haunting, carefull with the conflicts
```

## After updating the base branch, how to update the child branches with the latest changes from the base branch ?

```
1 | git stash
2 | git rebase <base-branch-name>
3 | git stash pop
4 | git pull origin <current-branch-name>
5 | git add <file-name> or . or --all
6 | git commit or git commit -m "Your brief message about the fix or feature"
7 | git push origin <current-branch-name>
```

## Easy mantra that can save your day ?

"Always do update your local with a latest pull before you push your local changes"