

Git Command

git init: initialize a new repository

git add: It will move the files from working directory to staging area, where the files are committed.

Git commit: Any file which are committed is said to be committed state.

Git remote: it is used to create, view, delete connection to other repositories

Git status: it displays the state of the working directory and the staging area

Git push: it uploads a file to remote repository

Git reset: used to undo the changes in the working directory.

git checkout -b: creating and switching to the branch

git checkout branch: It is used to switch to the branch

git branch: to see all the branch

git merge: combine the changes from two or more branch into single branch

```
MINGW64/d/git learning/sample
$ git init
Initialized empty Git repository in D:/git learning/sample/.git/

MINGW64/d/git learning/sample (master)
$ git status
On branch master
no commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  demo1.txt

nothing added to commit but untracked files present (use "git add" to track)

MINGW64/d/git learning/sample (master)
$ git add demo1.txt

MINGW64/d/git learning/sample (master)
$ git commit -m "first commit"
[master (root-commit) 8a6d18b] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 demo1.txt

MINGW64/d/git learning/sample (master)
$ git remote https://github.com/T-Ragu/sample.git
error: unknown subcommand: 'https://github.com/T-Ragu/sample.git'
usage: git remote [-v] [--verbose]
or: git remote add [-i <branch>] [-m <master>] [-f] [--tags] [--no-tags] [-m
errors=<fetch>pushes] <name> <url>
or: git remote rename [-i] [--progress] <old> <new>
or: git remote remove <name>
or: git remote set-head <name> (-s | --auto | -d | --delete | <branch>)
or: git remote [-v] [--verbose] show [-n] <name>
or: git remote prune [-n | --dry-run] <name>
or: git remote [-v] [--verbose] update [-p | --prune] [(<group> | <remote>)..
]
or: git remote set-branches [--add] <name> <branches>...
or: git remote get-url [--push] [--all] <name>
or: git remote set-url [--push] <name> <newurl> [<oldurl>]
or: git remote set-url --add <name> <newurl>
or: git remote set-url --delete <name> <url>

-v, --[no-]verbose    be verbose; must be placed before a subcommand

MINGW64/d/git learning/sample (master)
$ git remote add origin https://github.com/T-Ragu/sample.git

MINGW64/d/git learning/sample (master)
$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/T-Ragu/sample.git'

MINGW64/d/git learning/sample (master)
$ git push origin master
```

```
MINGW64/d/git learning/sample
$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/T-Ragul/sample.git'

$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 25 bytes | 112.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/T-Ragul/sample.git
 * (new branch) master -> master

$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    javaprogram.java

nothing added to commit but untracked files present (use "git add" to track)

$ git add javaprogram.java

$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   javaprogram.java

$ git commit -m "this is java code"
[master 9a94183] this is java code
1 file changed, 3 insertions(+)
create mode 100644 javaprogram.java

$ git remote https://github.com/T-Ragul/sample.git
error: unknown subcommand: 'https://github.com/T-Ragul/sample.git'
usage: git remote [-v] [--verbose] [-m <master>] [-f] [--tags] [--no-tags] [--m
[error=<fetch>push] <name> <url>
or: git remote rename [--no-progress] <old> <new>
or: git remote remove <name>
or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
or: git remote [-v] [--verbose] show [-n] <name>
or: git remote [-v] [--verbose] update [-p | --prune] [(<group> | <remote>)...
]
or: git remote set-branches [--add] <name> <branch>...
or: git remote get-url [-push] [--all] <name>
or: git remote set-url [--push] <name> <newurl> [<oldurl>]
or: git remote set-url --add <name> <newurl>
or: git remote set-url --delete <name> <url>

-v, --[no-]verbose be verbose; must be placed before a subcommand

$ git remote add origin https://github.com/T-Ragul/sample.git
error: remote origin already exists.

$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 383 bytes | 283.00 KiB/s, done.
Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
To https://github.com/T-Ragul/sample.git
 9a94183..9a94183 master -> master

$ git reset javaprogram.java

$
```

```
MINGW64/d/git learning/sample
$ git add javaprogram.java

$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   javaprogram.java

$ git commit -m "this is java code"
[master 9a94183] this is java code
1 file changed, 3 insertions(+)
create mode 100644 javaprogram.java

$ git remote https://github.com/T-Ragul/sample.git
error: unknown subcommand: 'https://github.com/T-Ragul/sample.git'
usage: git remote [-v] [--verbose] [-m <master>] [-f] [--tags] [--no-tags] [--m
[error=<fetch>push] <name> <url>
or: git remote rename [--no-progress] <old> <new>
or: git remote remove <name>
or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
or: git remote [-v] [--verbose] show [-n] <name>
or: git remote [-v] [--verbose] update [-p | --prune] [(<group> | <remote>)...
]
or: git remote set-branches [--add] <name> <branch>...
or: git remote get-url [-push] [--all] <name>
or: git remote set-url [--push] <name> <newurl> [<oldurl>]
or: git remote set-url --add <name> <newurl>
or: git remote set-url --delete <name> <url>

-v, --[no-]verbose be verbose; must be placed before a subcommand

$ git remote add origin https://github.com/T-Ragul/sample.git
error: remote origin already exists.

$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 383 bytes | 283.00 KiB/s, done.
Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
To https://github.com/T-Ragul/sample.git
 9a94183..9a94183 master -> master

$ git reset javaprogram.java

$
```

T-Ragul / sample

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T-Ragul this is java code 9a94183 · 24 minutes ago 2 Commits

demo1.txt first commit 31 minutes ago

javaprogram.java this is java code 24 minutes ago

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Git Branch Example:

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo

```
$ git init
```

Initialized empty Git repository in D:/git learning/gitbranchdemo/.git/

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

```
$ git add .
```

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

```
$ git commit -m "index commit"
```

[master (root-commit) 271f71d] index commit

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 index.txt

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

```
$ git checkout -b feature1
```

Switched to a new branch 'feature1'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

```
$ git add .
```

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

```
$ git commit -m "login and register"
```

[feature1 b5ff45f] login and register

2 files changed, 2 insertions(+)

create mode 100644 loginfeature1.txt

create mode 100644 registerfeature1.txt

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

\$ git branch

* feature1

master

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

\$ git checkout master

Switched to branch 'master'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

\$ git checkout feature1

Switched to branch 'feature1'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

\$ git checkout -b feature2branch

Switched to a new branch 'feature2branch'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo
(feature2branch)

\$ git add .

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo
(feature2branch)

\$ git commit -m "added dashboard"

[feature2branch 87658a6] added dashboard

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 dashboardfeature2.txt

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo
(feature2branch)

\$ git checkout master

Switched to branch 'master'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

\$ git checkout feature1

Switched to branch 'feature1'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

\$ git checkout master

Switched to branch 'master'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

\$ git checkout feature2branch

Switched to branch 'feature2branch'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo
(feature2branch)

\$