

Basic Commits

```
tarakram.dwaram@JNQHYY2:~/katas$ git config --global user.name  
"tarakram772"
```

```
tarakram.dwaram@JNQHYY2:~/katas$ git config --global user.email  
"tarakram.dwaram@zemosolabs.com"
```

```
tarakram.dwaram@JNQHYY2:~/katas$ source setup.sh
```

```
bash: setup.sh: No such file or directory
```

```
tarakram.dwaram@JNQHYY2:~/katas$ git init
```

```
hint: Using 'master' as the name for the initial branch. This default branch  
name
```

```
hint: is subject to change. To configure the initial branch name to use in all  
hint: of your new repositories, which will suppress this warning, call:
```

```
hint:
```

```
hint: git config --global init.defaultBranch <name>
```

```
hint:
```

```
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
```

```
hint: 'development'. The just-created branch can be renamed via this  
command:
```

```
hint:
```

```
hint: git branch -m <name>
```

```
Initialized empty Git repository in /home/tarakram.dwaram/katas/.git/
```

```
tarakram.dwaram@JNQHYY2:~/katas$ git status
```

```
On branch master
```

No commits yet

nothing to commit (create/copy files and use "git add" to track)

```
tarakram.dwaram@JNQHYY2:~/katas$ git log
```

```
fatal: your current branch 'master' does not have any commits yet
```

```
tarakram.dwaram@JNQHYY2:~/katas$ vi katas1.
```

```
tarakram.dwaram@JNQHYY2:~/katas$ ll
```

```
total 12
```

```
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:11 ./
drwxr-xr-x 11 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:03 ../
drwxrwxr-x 7 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:04 .git/
tarakram.dwaram@JNQHYY2:~/katas$ vi katas1
tarakram.dwaram@JNQHYY2:~/katas$ ll
total 12
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:12 ./
drwxr-xr-x 11 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:03 ../
drwxrwxr-x 7 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:04 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 13:12 katas1
tarakram.dwaram@JNQHYY2:~/katas$ git status
On branch master
```

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

katas1

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

```
tarakram.dwaram@JNQHYY2:~/katas$ ll
```

```
total 12
```

```
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:12 ./
drwxr-xr-x 11 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:03 ../
drwxrwxr-x 7 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:13 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 13:12 katas1
tarakram.dwaram@JNQHYY2:~/katas$ time
```

```
real 0m0.000s
```

```
user 0m0.000s
```

```
sys 0m0.000s
```

```
tarakram.dwaram@JNQHYY2:~/katas$ sysdate
```

```
sysdate: command not found
```

```
tarakram.dwaram@JNQHYY2:~/katas$ date
```

```
Wednesday 16 February 2022 01:13:47 PM IST
```

```
tarakram.dwaram@JNQHYY2:~/katas$ touch katas
tarakram.dwaram@JNQHYY2:~/katas$ touch katas1
tarakram.dwaram@JNQHYY2:~/katas$ ll
total 12
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:14 ./
drwxr-xr-x 11 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:03 ../
drwxrwxr-x 7 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:13 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 13:14 katas
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 13:14 katas1
tarakram.dwaram@JNQHYY2:~/katas$ rm katas
tarakram.dwaram@JNQHYY2:~/katas$ ll
total 12
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:14 ./
drwxr-xr-x 11 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:03 ../
drwxrwxr-x 7 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:13 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 13:14 katas1
tarakram.dwaram@JNQHYY2:~/katas$ git add katas1
tarakram.dwaram@JNQHYY2:~/katas$ git status
On branch master
```

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: katas1

```
tarakram.dwaram@JNQHYY2:~/katas$ git commit
[master (root-commit) 5e06ab5] On branch master
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 katas1
tarakram.dwaram@JNQHYY2:~/katas$ git status
On branch master
nothing to commit, working tree clean
tarakram.dwaram@JNQHYY2:~/katas$ vi katas1
tarakram.dwaram@JNQHYY2:~/katas$ cat katas1
```

this is tarak

```
tarakram.dwaram@JNQHYY2:~/katas$ echo zemoso> katas1
```

```
tarakram.dwaram@JNQHYY2:~/katas$ cat katas1
```

zemoso

```
tarakram.dwaram@JNQHYY2:~/katas$ echo tharak>>katas1
```

```
tarakram.dwaram@JNQHYY2:~/katas$ cat katas1
```

zemoso

tharak

```
tarakram.dwaram@JNQHYY2:~/katas$ git status
```

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: katas1

no changes added to commit (use "git add" and/or "git commit -a")

```
tarakram.dwaram@JNQHYY2:~/katas$ git add katas1
```

```
tarakram.dwaram@JNQHYY2:~/katas$ git status
```

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: katas1

```
tarakram.dwaram@JNQHYY2:~/katas$ vi katas1
```

```
tarakram.dwaram@JNQHYY2:~/katas$ cat katas1
```

gunasekar

zemoso

tharak

```
tarakram.dwaram@JNQHYY2:~/katas$ git commit
```

[master 30da858] On branch master

1 file changed, 2 insertions(+)

```
tarakram.dwaram@JNQHYY2:~/katas$ git status
```

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: katas1

no changes added to commit (use "git add" and/or "git commit -a")

tarakram.dwaram@JNQHYY2:~/katas\$ git add katas1

tarakram.dwaram@JNQHYY2:~/katas\$ git status

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: katas1

tarakram.dwaram@JNQHYY2:~/katas\$ git commit

[master f8456a2] On branch master

1 file changed, 1 insertion(+)

tarakram.dwaram@JNQHYY2:~/katas\$

2.basic staging

tarakram.dwaram@JNQHYY2:~/katas\$ ll

total 16

drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:24 ./

drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../

drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:29 .git/

-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1

tarakram.dwaram@JNQHYY2:~/katas\$ vi file.txt

tarakram.dwaram@JNQHYY2:~/katas\$ echo 2 > file.txt

tarakram.dwaram@JNQHYY2:~/katas\$ cat file.txt

2

tarakram.dwaram@JNQHYY2:~/katas\$ echo this my laptop > file.txt

tarakram.dwaram@JNQHYY2:~/katas\$ cat file.txt

this my laptop

tarakram.dwaram@JNQHYY2:~/katas\$ echo this my laptop >> file.txt

tarakram.dwaram@JNQHYY2:~/katas\$ cat

```
file.txt .git/   katas1
tarakram.dwaram@JNQHYY2:~/katas$ cat file.txt
this my laptop
this my laptop
tarakram.dwaram@JNQHYY2:~/katas$ git diff
tarakram.dwaram@JNQHYY2:~/katas$ git diff --staged
tarakram.dwaram@JNQHYY2:~/katas$ git add file.txt
tarakram.dwaram@JNQHYY2:~/katas$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file.txt
```

```
tarakram.dwaram@JNQHYY2:~/katas$ git diff
tarakram.dwaram@JNQHYY2:~/katas$ git diff --staged
diff --git a/file.txt b/file.txt
new file mode 100644
index 0000000..045eebf
--- /dev/null
+++ b/file.txt
@@ -0,0 +1,2 @@
+this my laptop
+this my laptop
tarakram.dwaram@JNQHYY2:~/katas$ echo 3 > file.txt
tarakram.dwaram@JNQHYY2:~/katas$ git diff
diff --git a/file.txt b/file.txt
index 045eebf..00750ed 100644
--- a/file.txt
+++ b/file.txt
@@ -1,2 +1 @@
-this my laptop
-this my laptop
+3
tarakram.dwaram@JNQHYY2:~/katas$ git diff --staged
diff --git a/file.txt b/file.txt
```

```
new file mode 100644
index 00000000..045eebf
--- /dev/null
+++ b/file.txt
@@ -0,0 +1,2 @@
+this my laptop
+this my laptop
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file.txt
```

```
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   file.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   file.txt
```

```
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   file.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ git restore --staged file.txt
tarakram.dwaram@JNQHY2:~/katas$ ll
total 20
drwxrwxr-x  3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:43 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r--  1 tarakram.dwaram tarakram.dwaram   2 Feb 16 13:50 file.txt
```

```
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:58 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
tarakram.dwaram@JNQHY2:~/katas$ cat file.txt
```

3

```
tarakram.dwaram@JNQHY2:~/katas$ git status
```

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

file.txt

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

```
tarakram.dwaram@JNQHY2:~/katas$ git add file.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ git status
```

On branch master

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: file.txt

```
tarakram.dwaram@JNQHY2:~/katas$ git commit
```

```
[master 024652e] On branch master
```

1 file changed, 1 insertion(+)

create mode 100644 file.txt

```
tarakram.dwaram@JNQHY2:~/katas$ echo 5 > file.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ cat file.txt
```

5

```
tarakram.dwaram@JNQHY2:~/katas$ git status
```

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: file.txt

no changes added to commit (use "git add" and/or "git commit -a")

```
tarakram.dwaram@JNQHY2:~/katas$ git restore file.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ cat file.txt
```


3

```
tarakram.dwaram@JNQHY2:~/katas$ git status
```

```
On branch master
```

```
nothing to commit, working tree clean
```

```
tarakram.dwaram@JNQHY2:~/katas$
```

Git Kata: Basic Branching

```
tarakram.dwaram@JNQHY2:~/katas$ git branch
```

```
* master
```

```
tarakram.dwaram@JNQHY2:~/katas$ git branch mybranch
```

```
tarakram.dwaram@JNQHY2:~/katas$ git branch
```

```
* master
```

```
mybranch
```

```
tarakram.dwaram@JNQHY2:~/katas$ git switch mybranch
```

```
Switched to branch 'mybranch'
```

```
tarakram.dwaram@JNQHY2:~/katas$ git status
```

```
On branch mybranch
```

```
nothing to commit, working tree clean
```

```
tarakram.dwaram@JNQHY2:~/katas$ git status
```

```
On branch mybranch
```

```
nothing to commit, working tree clean
```

```
tarakram.dwaram@JNQHY2:~/katas$ vi file1.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ git add file1.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ git commit
```

```
[mybranch 0a76ea1] On branch mybranch
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 file1.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ git branch
```

```
master
```

```
* mybranch
```

```
tarakram.dwaram@JNQHY2:~/katas$ cat file1.txt
```

```
tarakramreddy
```

```
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph
```

```
* 0a76ea1 (HEAD -> mybranch) On branch mybranch
```

```
* 024652e (master) On branch master
```

```
* f8456a2 On branch master
```

```
* 30da858 On branch master
```

```

* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git switch master
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ git branch
* master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph
* 024652e (HEAD -> master) On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ vi file2.txt
tarakram.dwaram@JNQHY2:~/katas$ git add file2.txt
tarakram.dwaram@JNQHY2:~/katas$ git commit
[master 5725322] On branch master
 1 file changed, 1 insertion(+)
 create mode 100644 file2.txt
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph --all
* 5725322 (HEAD -> master) On branch master
| * 0a76ea1 (mybranch) On branch mybranch
|/
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git switch mybranch
Switched to branch 'mybranch'
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch mybranch
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ git branch
  master
* mybranch
tarakram.dwaram@JNQHY2:~/katas$ cat file2.txt
cat: file2.txt: No such file or directory
tarakram.dwaram@JNQHY2:~/katas$ ll
total 24
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:45 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 14 Feb 16 14:45 file1.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:45 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
tarakram.dwaram@JNQHY2:~/katas$ git diff mybranch master

```

```
diff --git a/file1.txt b/file1.txt
deleted file mode 100644
index 699e9e4..0000000
--- a/file1.txt
+++ /dev/null
@@ -1,0,0 @@
-tarakramreddy
diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..54db853
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+reddyram
tarakram.dwaram@JNQHY2:~/katas$
```

Git Kata: Fast-forward Merge

```
tarakram.dwaram@JNQHY2:~/katas$ git branch
* master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git branch feature/uppercase
tarakram.dwaram@JNQHY2:~/katas$ git branch
  feature/uppercase
* master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git switch feature/uppercase
Switched to branch 'feature/uppercase'
tarakram.dwaram@JNQHY2:~/katas$ git branch
* feature/uppercase
  master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch feature/uppercase
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ vi greeting.txt
tarakram.dwaram@JNQHY2:~/katas$ cat greeting.txt
katas assignment
tarakram.dwaram@JNQHY2:~/katas$ git add greeting.txt
tarakram.dwaram@JNQHY2:~/katas$ git commit
[feature/uppercase cb792ec] On branch feature/uppercase
1 file changed, 1 insertion(+)
```

```

create mode 100644 greeting.txt
tarakram.dwaram@JNQHY2:~/katas$ git branch
* feature/uppercase
  master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph --all
* cb792ec (HEAD -> feature/uppercase) On branch feature/uppercase
* 5725322 (master) On branch master
| * 0a76ea1 (mybranch) On branch mybranch
|/
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git switch master
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ ll
total 24
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:57 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:57 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
tarakram.dwaram@JNQHY2:~/katas$ git switch feature/uppercase
Switched to branch 'feature/uppercase'
tarakram.dwaram@JNQHY2:~/katas$ git branch
* feature/uppercase
  master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ ll
total 28
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:57 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:57 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 17 Feb 16 14:57 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
tarakram.dwaram@JNQHY2:~/katas$ git switch master
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ git branch
  feature/uppercase
* master

```

```

mybranch
tarakram.dwaram@JNQHY2:~/katas$ git merge feature/uppercase
Updating 5725322..cb792ec
Fast-forward
 greeting.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 greeting.txt
tarakram.dwaram@JNQHY2:~/katas$ ll
total 28
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:59 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 14:59 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 17 Feb 16 14:59 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
tarakram.dwaram@JNQHY2:~/katas$ cat greeting.txt
katas assignment
tarakram.dwaram@JNQHY2:~/katas$ git diff
tarakram.dwaram@JNQHY2:~/katas$ git diff master feature/uppercase
tarakram.dwaram@JNQHY2:~/katas$ git branch -d feature/uppercase
Deleted branch feature/uppercase (was cb792ec).
tarakram.dwaram@JNQHY2:~/katas$ git branch
* master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$

```

Git Kata: 3-Way Merge

```

tarakram.dwaram@JNQHY2:~/katas$ git branch greeting
tarakram.dwaram@JNQHY2:~/katas$ git branch
greeting
* master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git switch greeting
Switched to branch 'greeting'
tarakram.dwaram@JNQHY2:~/katas$ git branch
* greeting
  master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ vi greeting.txt

```

```
tarakram.dwaram@JNQHY2:~/katas$ git switch master
M    greeting.txt
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ cat greeting.txt
```

C

new Katas assignmennet

```
tarakram.dwaram@JNQHY2:~/katas$ git switch greeting
```

```
M    greeting.txt
```

Switched to branch 'greeting'

```
tarakram.dwaram@JNQHY2:~/katas$ git add greeting.txt
```

```
tarakram.dwaram@JNQHY2:~/katas$ git commit
```

```
[greeting 46b022c] On branch greeting
```

1 file changed, 3 insertions(+), 1 deletion(-)

```
tarakram.dwaram@JNQHY2:~/katas$ git switch master
```

Switched to branch 'master'

```
tarakram.dwaram@JNQHY2:~/katas$ git branch
```

```
greeting
```

```
* master
```

```
mybranch
```

```
tarakram.dwaram@JNQHY2:~/katas$ vi README.md
```

```
tarakram.dwaram@JNQHY2:~/katas$ git add README.md
```

```
tarakram.dwaram@JNQHY2:~/katas$ git commit
```

```
[master a0063f1] On branch master
```

1 file changed, 1 insertion(+)

create mode 100644 README.md

```
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph --all
```

```
* a0063f1 (HEAD -> master) On branch master
```

```
| * 46b022c (greeting) On branch greeting
```

```
|/
```

```
* cb792ec On branch feature/uppercase
```

```
* 5725322 On branch master
```

```
| * 0a76ea1 (mybranch) On branch mybranch
```

```
|/
```

```
* 024652e On branch master
```

```
* f8456a2 On branch master
```

```
* 30da858 On branch master
```

```
* 5e06ab5 On branch master
```

```
tarakram.dwaram@JNQHY2:~/katas$ git diff branch
```

fatal: ambiguous argument 'branch': unknown revision or path not in the working tree.

Use '--' to separate paths from revisions, like this:

'git <command> [<revision>...] -- [<file>...']'

```
tarakram.dwaram@JNQHY2:~/katas$ git diff master greeting
```

```
diff --git a/README.md b/README.md
```

```

deleted file mode 100644
index eda3d03..0000000
--- a/README.md
+++ /dev/null
@@ -1 +0,0 @@
-ithis is the repository of the github
diff --git a/greeting.txt b/greeting.txt
index a60ebf7..b996c9b 100644
--- a/greeting.txt
+++ b/greeting.txt
@@ -1 +1,3 @@
-katas assignment
+
+C
+new Katas assignmennet
tarakram.dwaram@JNQHY2:~/katas$ git branch
  greeting
* master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git merge greeting
Merge made by the 'ort' strategy.
greeting.txt | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)
tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:20 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:21 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 15:20 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 15:15 README.md
tarakram.dwaram@JNQHY2:~/katas$ cat greeting.txt

```

```

C
new Katas assignmennet
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph --all
* b231386 (HEAD -> master) Merge branch 'greeting'
|\
| * 46b022c (greeting) On branch greeting
* | a0063f1 On branch master
|/
* cb792ec On branch feature/uppercasse

```

```

* 5725322 On branch master
| * 0a76ea1 (mybranch) On branch mybranch
|/
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git branch
greeting
* master
mybranch
tarakram.dwaram@JNQHY2:~/katas$

```

Git Kata: Merge Conflict

```

tarakram.dwaram@JNQHY2:~/katas$ git merge
fatal: No remote for the current branch.
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph
* b231386 (HEAD -> master) Merge branch 'greeting'
|\
| * 46b022c (greeting) On branch greeting
* | a0063f1 On branch master
|/
* cb792ec On branch feature/uppercase
* 5725322 On branch master
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git branch
greeting
* master
mybranch
tarakram.dwaram@JNQHY2:~/katas$ git merge master greeting
Already up to date.
tarakram.dwaram@JNQHY2:~/katas$ git merge greeting
Already up to date.
tarakram.dwaram@JNQHY2:~/katas$ git merge master
Already up to date.
tarakram.dwaram@JNQHY2:~/katas$ git merge merge-conflict-branch1
merge: merge-conflict-branch1 - not something we can merge

```



```

tarakram.dwaram@JNQHY2:~/katas$ git merge branch greeting
merge: branch - not something we can merge
tarakram.dwaram@JNQHY2:~/katas$ git branch
greeting
* master
mybranch
tarakram.dwaram@JNQHY2:~/katas$ git merge greeting
Already up to date.
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:20 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:37 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 15:20 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 15:15 README.md
tarakram.dwaram@JNQHY2:~/katas$ git switch greeting
Switched to branch 'greeting'
tarakram.dwaram@JNQHY2:~/katas$ ll
total 28
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:37 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:37 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 15:20 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch greeting
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ git add greeting.txt
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch greeting
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ git switch master
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:38 ./

```

```

drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:38 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 15:20 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 15:38 README.md
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ git branch
  greeting
* master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git checkout greeting
Switched to branch 'greeting'
tarakram.dwaram@JNQHY2:~/katas$ git brach
git: 'brach' is not a git command. See 'git --help'.

```

The most similar command is
branch

```

tarakram.dwaram@JNQHY2:~/katas$ git branch
* greeting
  master
  mybranch
tarakram.dwaram@JNQHY2:~/katas$ git merge master
Updating 46b022c..b231386
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph
*   b231386 (HEAD -> greeting, master) Merge branch 'greeting'
|\
| * 46b022c On branch greeting
* | a0063f1 On branch master
|/
* cb792ec On branch feature/uppercase
* 5725322 On branch master
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git push origin greeting

```

fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

tarakram.dwaram@JNQHY2:~/katas\$ git branch

* greeting
master
mybranch

tarakram.dwaram@JNQHY2:~/katas\$ git rebase master

Current branch greeting is up to date.

tarakram.dwaram@JNQHY2:~/katas\$

Merge Mergesort

tarakram.dwaram@JNQHY2:~/katas\$ git branch

* greeting
master
mybranch

tarakram.dwaram@JNQHY2:~/katas\$ git merge

fatal: No remote for the current branch.

tarakram.dwaram@JNQHY2:~/katas\$ git mergetool --tool=vimdiff

No files need merging

tarakram.dwaram@JNQHY2:~/katas\$ ll

total 32

drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:41 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:43 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 15:20 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 15:41 README.md

tarakram.dwaram@JNQHY2:~/katas\$ git add greeting.txt

tarakram.dwaram@JNQHY2:~/katas\$ git commit

On branch greeting

nothing to commit, working tree clean

tarakram.dwaram@JNQHY2:~/katas\$ git mergetool --tool=vimdiff

No files need merging

tarakram.dwaram@JNQHY2:~/katas\$ git merge master

Already up to date.

tarakram.dwaram@JNQHY2:~/katas\$

it Kata: rebGase branch

tarakram.dwaram@JNQHY2:~/katas\$ git branch

```
* greeting
  master
  mybranch
```

tarakram.dwaram@JNQHY2:~/katas\$ git log

commit b23138609c172cda61ce9da99d9f4b6dd7a49b0b (HEAD -> greeting, master)

Merge: a0063f1 46b022c

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 15:20:51 2022 +0530

Merge branch 'greeting'

commit a0063f1e45f69fc0607ff84f71dd674ad3e82218

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 15:16:44 2022 +0530

On branch master

commit 46b022c5b174f7d2adbd9ed74e1e479a3e08595c

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 15:12:53 2022 +0530

On branch greeting

commit cb792ece6334acb9565c7762a5bb542bb93e0419

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 14:54:17 2022 +0530

On branch feature/uppercase

commit 57253222d116677b8cc97c5e47c850624dcb76ed

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 14:44:27 2022 +0530

On branch master

commit 024652e7e07bd0b6842f5e73b56e64e661904a0f

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 14:02:20 2022 +0530

```
[1]+ Stopped          git log
tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:41 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram   9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram   2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 15:54 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  26 Feb 16 15:20 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  38 Feb 16 15:41 README.md
tarakram.dwaram@JNQHY2:~/katas$ git switch master
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ git branch feature
tarakram.dwaram@JNQHY2:~/katas$ git switch feature
Switched to branch 'feature'
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph --all
* b231386 (HEAD -> feature, master, greeting) Merge branch 'greeting'
| \
| * 46b022c On branch greeting
* | a0063f1 On branch master
|/
* cb792ec On branch feature/uppercase
* 5725322 On branch master
| * 0a76ea1 (mybranch) On branch mybranch
|/
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git switch master
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph --all
* b231386 (HEAD -> master, greeting, feature) Merge branch 'greeting'
| \
| * 46b022c On branch greeting
* | a0063f1 On branch master
|/
* cb792ec On branch feature/uppercase
* 5725322 On branch master
```

```

| * 0a76ea1 (mybranch) On branch mybranch
|/
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git switch feature
Switched to branch 'feature'
tarakram.dwaram@JNQHY2:~/katas$ git rebase master
Current branch feature is up to date.
tarakram.dwaram@JNQHY2:~/katas$ git switch master
Switched to branch 'master'
tarakram.dwaram@JNQHY2:~/katas$ git rebase master
Current branch master is up to date.
tarakram.dwaram@JNQHY2:~/katas$ git merge feature
Already up to date.
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph --all
* b231386 (HEAD -> master, greeting, feature) Merge branch 'greeting'
|\
| * 46b022c On branch greeting
* | a0063f1 On branch master
|/
* cb792ec On branch feature/uppercase
* 5725322 On branch master
| * 0a76ea1 (mybranch) On branch mybranch
|/
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$

```

Git Kata: Basic revert

```

tarakram.dwaram@JNQHY2:~/katas$ git log --decorate --oneline
b231386 (HEAD -> master, greeting, feature) Merge branch 'greeting'
a0063f1 On branch master
46b022c On branch greeting
cb792ec On branch feature/uppercase
5725322 On branch master
024652e On branch master

```

f8456a2 On branch master
30da858 On branch master
5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas\$ cat greeting.txt

C

new Katas assignmennet

tarakram.dwaram@JNQHY2:~/katas\$ git revert

usage: git revert [<options>] <commit-ish>...

or: git revert <subcommand>

--quit end revert or cherry-pick sequence
--continue resume revert or cherry-pick sequence
--abort cancel revert or cherry-pick sequence
--skip skip current commit and continue
--cleanup <mode> how to strip spaces and #comments from message
-n, --no-commit don't automatically commit
-e, --edit edit the commit message
-s, --signoff add a Signed-off-by trailer
-m, --mainline <parent-number>
 select mainline parent
--rerere-autoupdate update the index with reused conflict resolution if possible
--strategy <strategy>
 merge strategy
-X, --strategy-option <option>
 option for merge strategy
-S, --gpg-sign[=<key-id>]
 GPG sign commit

tarakram.dwaram@JNQHY2:~/katas\$ vi greeting.txt

tarakram.dwaram@JNQHY2:~/katas\$ git add greeting.txt

tarakram.dwaram@JNQHY2:~/katas\$ git commit

[master bc0c0fb] On branch master

1 file changed, 1 insertion(+), 1 deletion(-)

tarakram.dwaram@JNQHY2:~/katas\$ git revert

usage: git revert [<options>] <commit-ish>...

or: git revert <subcommand>

--quit end revert or cherry-pick sequence
--continue resume revert or cherry-pick sequence
--abort cancel revert or cherry-pick sequence
--skip skip current commit and continue
--cleanup <mode> how to strip spaces and #comments from message
-n, --no-commit don't automatically commit

- e, --edit edit the commit message
- s, --signoff add a Signed-off-by trailer
- m, --mainline <parent-number>
 select mainline parent
- rerere-autoupdate update the index with reused conflict resolution if possible
- strategy <strategy>
 merge strategy
- X, --strategy-option <option>
 option for merge strategy
- S, --gpg-sign[=<key-id>]
 GPG sign commit

```
tarakram.dwaram@JNQHY2:~/katas$ cat greeting.txt
```

```
katas 2
```

```
C
```

```
new Katas assignmennet
```

```
tarakram.dwaram@JNQHY2:~/katas$ git revert bc0c0fb
```

```
[master 717187f] Revert " On branch master"
```

```
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
tarakram.dwaram@JNQHY2:~/katas$ cat greeting.txt
```

```
C
```

```
new Katas assignmennet
```

```
tarakram.dwaram@JNQHY2:~/katas$ git log --decorate --oneline
```

```
717187f (HEAD -> master) Revert " On branch master"
```

```
bc0c0fb On branch master
```

```
b231386 (greeting, feature) Merge branch 'greeting'
```

```
a0063f1 On branch master
```

```
46b022c On branch greeting
```

```
cb792ec On branch feature/uppercase
```

```
5725322 On branch master
```

```
024652e On branch master
```

```
f8456a2 On branch master
```

```
30da858 On branch master
```

```
5e06ab5 On branch master
```

```
tarakram.dwaram@JNQHY2:~/katas$ cat greeting.txt
```

```
C
```

```
new Katas assignmennet
```

```
tarakram.dwaram@JNQHY2:~/katas$ ls
```

```
file2.txt file.txt greeting.txt katas1 README.md
```

```
tarakram.dwaram@JNQHY2:~/katas$ git log --decorate --oneline
```

```
717187f (HEAD -> master) Revert " On branch master"
```

```
bc0c0fb On branch master
```


b231386 (greeting, feature) Merge branch 'greeting'

a0063f1 On branch master

46b022c On branch greeting

cb792ec On branch feature/uppercase

5725322 On branch master

024652e On branch master

f8456a2 On branch master

30da858 On branch master

5e06ab5 On branch master

tarakram.dwaram@JNQHY2:~/katas\$ git revert

usage: git revert [<options>] <commit-ish>...

or: git revert <subcommand>

--quit end revert or cherry-pick sequence

--continue resume revert or cherry-pick sequence

--abort cancel revert or cherry-pick sequence

--skip skip current commit and continue

--cleanup <mode> how to strip spaces and #comments from message

-n, --no-commit don't automatically commit

-e, --edit edit the commit message

-s, --signoff add a Signed-off-by trailer

-m, --mainline <parent-number>

select mainline parent

--rerere-autoupdate update the index with reused conflict resolution if possible

--strategy <strategy>

merge strategy

-X, --strategy-option <option>

option for merge strategy

-S, --gpg-sign[=<key-id>]

GPG sign commit

tarakram.dwaram@JNQHY2:~/katas\$ git revert 717187f

[master 4b6806a] Revert "Revert " On branch master""

1 file changed, 1 insertion(+), 1 deletion(-)

tarakram.dwaram@JNQHY2:~/katas\$ git log --decorate --oneline

4b6806a (HEAD -> master) Revert "Revert " On branch master""

717187f Revert " On branch master"

bc0c0fb On branch master

b231386 (greeting, feature) Merge branch 'greeting'

a0063f1 On branch master

46b022c On branch greeting

cb792ec On branch feature/uppercase

5725322 On branch master

024652e On branch master

```
f8456a2 On branch master
30da858 On branch master
5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ ls
file2.txt file.txt greeting.txt katas1 README.md
tarakram.dwaram@JNQHY2:~/katas$ git show
commit 4b6806a8ad1fe2fc9218457d2518d7e886b95cce (HEAD -> master)
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 16:24:38 2022 +0530
```

Revert "Revert " On branch master""

This reverts commit 717187f6c617cd6e7855f8ec0dd8dc2d6e93ce14.

On branch master

```
diff --git a/greeting.txt b/greeting.txt
index b996c9b..5058a00 100644
--- a/greeting.txt
+++ b/greeting.txt
@@ -1,3 +1,3 @@
-
+
+katas 2
C
new Katas assignmennet
tarakram.dwaram@JNQHY2:~/katas$ git show 4b6806a
commit 4b6806a8ad1fe2fc9218457d2518d7e886b95cce (HEAD -> master)
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 16:24:38 2022 +0530
```

Revert "Revert " On branch master""

This reverts commit 717187f6c617cd6e7855f8ec0dd8dc2d6e93ce14.

On branch master

```
diff --git a/greeting.txt b/greeting.txt
index b996c9b..5058a00 100644
--- a/greeting.txt
+++ b/greeting.txt
@@ -1,3 +1,3 @@
-
+
+katas 2
C
```

new Katas assignmennet
tarakram.dwaram@JNQHY2:~/katas\$

Git katas: Git reset

```
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline
4b6806a (HEAD -> master) Revert "Revert " On branch master""
717187f Revert " On branch master"
bc0c0fb On branch master
b231386 (greeting, feature) Merge branch 'greeting'
a0063f1 On branch master
46b022c On branch greeting
cb792ec On branch feature/uppercase
5725322 On branch master
024652e On branch master
f8456a2 On branch master
30da858 On branch master
5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:24 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:24 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 33 Feb 16 16:24 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 15:41 README.md
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ git reset --soft HEAD~1
tarakram.dwaram@JNQHY2:~/katas$ git reset --mixed HEAD~1
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline
bc0c0fb (HEAD -> master) On branch master
b231386 (greeting, feature) Merge branch 'greeting'
a0063f1 On branch master
46b022c On branch greeting
cb792ec On branch feature/uppercase
5725322 On branch master
```

```
024652e On branch master
f8456a2 On branch master
30da858 On branch master
5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git reset --hard HEAD~1
HEAD is now at b231386 Merge branch 'greeting'
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline
b231386 (HEAD -> master, greeting, feature) Merge branch 'greeting'
a0063f1 On branch master
46b022c On branch greeting
cb792ec On branch feature/uppercase
5725322 On branch master
024652e On branch master
f8456a2 On branch master
30da858 On branch master
5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ git revert HEAD~1
[master ed24202] Revert " On branch master"
 1 file changed, 1 deletion(-)
 delete mode 100644 README.md
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline
ed24202 (HEAD -> master) Revert " On branch master"
b231386 (greeting, feature) Merge branch 'greeting'
a0063f1 On branch master
46b022c On branch greeting
cb792ec On branch feature/uppercase
5725322 On branch master
024652e On branch master
f8456a2 On branch master
30da858 On branch master
5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$
```

Git Kata: Basic cleaning

```
tarakram.dwaram@JNQHY2:~/katas$ ls -R
```

```
..:
```

```
file2.txt file.txt greeting.txt katas1
```

```
tarakram.dwaram@JNQHY2:~/katas$ ll
```

```
total 28
```

```
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:55 ./
```

```
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
```

```
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:57 .git/
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
```

```
tarakram.dwaram@JNQHY2:~/katas$ clean -n
```

Command 'clean' not found, did you mean:

command 'uclean' from deb svn-buildpackage (0.8.7)

command 'clear' from deb ncurses-bin (6.2-0ubuntu2)

command 'pclean' from deb pbuilder-scripts (22)

Try: `sudo apt install <deb name>`

```
tarakram.dwaram@JNQHY2:~/katas$ git clean -n
```

```
tarakram.dwaram@JNQHY2:~/katas$ ll
```

```
total 28
```

```
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:55 ./
```

```
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
```

```
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:57 .git/
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
```

```
tarakram.dwaram@JNQHY2:~/katas$ git clean -n -d
```

```
tarakram.dwaram@JNQHY2:~/katas$ ll
```

```
total 28
```

```
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:55 ./
```

```
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
```

```
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:57 .git/
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
```

```
tarakram.dwaram@JNQHY2:~/katas$ git clean -f -d
```

```
tarakram.dwaram@JNQHY2:~/katas$ ll
```

```
total 28
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:55 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 16:57 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
tarakram.dwaram@JNQHY2:~/katas$
```

Git kata: Amending commits

```
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch master
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ git log -p
commit ed24202b313942e377b46a1fe2c28bf722d30d16 (HEAD -> master)
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 16:55:06 2022 +0530
```

Revert " On branch master"

This reverts commit a0063f1e45f69fc0607ff84f71dd674ad3e82218.

On branch master

```
diff --git a/README.md b/README.md
deleted file mode 100644
index eda3d03..0000000
--- a/README.md
+++ /dev/null
@@ -1 +0,0 @@
-ithis is the repository of the github

commit b23138609c172cda61ce9da99d9f4b6dd7a49b0b (greeting, feature)
Merge: a0063f1 46b022c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:20:51 2022 +0530
```

Merge branch 'greeting'

```
commit a0063f1e45f69fc0607ff84f71dd674ad3e82218
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:16:44 2022 +0530
```

On branch master

```
diff --git a/README.md b/README.md
new file mode 100644
index 0000000..eda3d03
```

```
[2]+ Stopped          git log -p
tarakram.dwaram@JNQHY2:~/katas$ vi bar.txt
tarakram.dwaram@JNQHY2:~/katas$ git add bar.txt
tarakram.dwaram@JNQHY2:~/katas$ git commit --amend
[master c9a0a8e] Revert " On branch master"
Date: Wed Feb 16 16:55:06 2022 +0530
2 files changed, 1 insertion(+), 1 deletion(-)
delete mode 100644 README.md
create mode 100644 bar.txt
tarakram.dwaram@JNQHY2:~/katas$ git log -p
commit c9a0a8ea206c7518373f55d435f375782882a5b4 (HEAD -> master)
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 16:55:06 2022 +0530
```

Revert " On branch master"

This reverts commit a0063f1e45f69fc0607ff84f71dd674ad3e82218.

On branch master

On branch master

```
diff --git a/README.md b/README.md
deleted file mode 100644
index eda3d03..0000000
--- a/README.md
+++ /dev/null
@@ -1,0 @@
-this is the repository of the github
diff --git a/bar.txt b/bar.txt
new file mode 100644
index 0000000..a4ad29e
--- /dev/null
+++ b/bar.txt
```

@@ -0,0 +1 @@

+type cheyamantava lekuntey empty ga save cheyala

commit b23138609c172cda61ce9da99d9f4b6dd7a49b0b (greeting, feature)

Merge: a0063f1 46b022c

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 15:20:51 2022 +0530

Merge branch 'greeting'

```
[3]+ Stopped          git log -p
tarakram.dwaram@JNQHY2:~/katas$ git commit --amend
[master 91b67ee] Revert " On branch master"
Date: Wed Feb 16 16:55:06 2022 +0530
2 files changed, 1 insertion(+), 1 deletion(-)
delete mode 100644 README.md
create mode 100644 bar.txt
tarakram.dwaram@JNQHY2:~/katas$
```

Kata 7: Reordering history

```
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph
* 91b67ee (HEAD -> master) Revert " On branch master"
* b231386 (greeting, feature) Merge branch 'greeting'
|\
| * 46b022c On branch greeting
* | a0063f1 On branch master
|/
* cb792ec On branch feature/uppercase
* 5725322 On branch master
* 024652e On branch master
* f8456a2 On branch master
* 30da858 On branch master
* 5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas$ git reflog
91b67ee (HEAD -> master) HEAD@{0}: commit (amend): Revert " On branch master"
c9a0a8e HEAD@{1}: commit (amend): Revert " On branch master"
ed24202 HEAD@{2}: revert: Revert " On branch master"
b231386 (greeting, feature) HEAD@{3}: reset: moving to HEAD~1
bc0c0fb HEAD@{4}: reset: moving to HEAD~1
717187f HEAD@{5}: reset: moving to HEAD~1
```


4b6806a HEAD@{6}: revert: Revert "Revert " On branch master""
717187f HEAD@{7}: revert: Revert " On branch master"
bc0c0fb HEAD@{8}: commit: On branch master
b231386 (greeting, feature) HEAD@{9}: checkout: moving from feature to master
b231386 (greeting, feature) HEAD@{10}: checkout: moving from master to feature
b231386 (greeting, feature) HEAD@{11}: checkout: moving from feature to master
b231386 (greeting, feature) HEAD@{12}: checkout: moving from master to feature
b231386 (greeting, feature) HEAD@{13}: checkout: moving from greeting to master
b231386 (greeting, feature) HEAD@{14}: merge master: Fast-forward
46b022c HEAD@{15}: checkout: moving from master to greeting
b231386 (greeting, feature) HEAD@{16}: checkout: moving from greeting to master
46b022c HEAD@{17}: checkout: moving from master to greeting
b231386 (greeting, feature) HEAD@{18}: merge greeting: Merge made by the 'ort' strategy.
a0063f1 HEAD@{19}: commit: On branch master
cb792ec HEAD@{20}: checkout: moving from greeting to master
46b022c HEAD@{21}: commit: On branch greeting
cb792ec HEAD@{22}: checkout: moving from master to greeting
cb792ec HEAD@{23}: checkout: moving from greeting to master
cb792ec HEAD@{24}: checkout: moving from master to greeting
cb792ec HEAD@{25}: merge feature/uppercase: Fast-forward
5725322 HEAD@{26}: checkout: moving from feature/uppercase to master
cb792ec HEAD@{27}: checkout: moving from master to feature/uppercase
5725322 HEAD@{28}: checkout: moving from feature/uppercase to master
cb792ec HEAD@{29}: commit: On branch feature/uppercase
5725322 HEAD@{30}: checkout: moving from master to feature/uppercase
5725322 HEAD@{31}: checkout: moving from mybranch to master
0a76ea1 (mybranch) HEAD@{32}: checkout: moving from master to mybranch
5725322 HEAD@{33}: commit: On branch master
024652e HEAD@{34}: checkout: moving from mybranch to master

[4]+ Stopped git reflog
tarakram.dwaram@JNQHY2:~/katas\$ git rebase -i 46b022c
error: invalid line 4: Rebase 46b022c..91b67ee onto 46b022c (2 commands)
You can fix this with 'git rebase --edit-todo' and then run 'git rebase --continue'.
Or you can abort the rebase with 'git rebase --abort'.
tarakram.dwaram@JNQHY2:~/katas\$ git rebase -i 46b022c
fatal: It seems that there is already a rebase-merge directory, and
I wonder if you are in the middle of another rebase. If that is the
case, please try
git rebase (--continue | --abort | --skip)
If that is not the case, please
rm -fr ".git/rebase-merge"
and run me again. I am stopping in case you still have something
valuable there.

```

tarakram.dwaram@JNQHY2:~/katas$ git reflog
46b022c (HEAD) HEAD@{0}: rebase (start): checkout 46b022c
91b67ee (master) HEAD@{1}: commit (amend): Revert " On branch master"
c9a0a8e HEAD@{2}: commit (amend): Revert " On branch master"
ed24202 HEAD@{3}: revert: Revert " On branch master"
b231386 (greeting, feature) HEAD@{4}: reset: moving to HEAD~1
bc0c0fb HEAD@{5}: reset: moving to HEAD~1
717187f HEAD@{6}: reset: moving to HEAD~1
4b6806a HEAD@{7}: revert: Revert "Revert " On branch master""
717187f HEAD@{8}: revert: Revert " On branch master"
bc0c0fb HEAD@{9}: commit: On branch master
b231386 (greeting, feature) HEAD@{10}: checkout: moving from feature to master
b231386 (greeting, feature) HEAD@{11}: checkout: moving from master to feature
b231386 (greeting, feature) HEAD@{12}: checkout: moving from feature to master
b231386 (greeting, feature) HEAD@{13}: checkout: moving from master to feature
b231386 (greeting, feature) HEAD@{14}: checkout: moving from greeting to master
b231386 (greeting, feature) HEAD@{15}: merge master: Fast-forward
46b022c (HEAD) HEAD@{16}: checkout: moving from master to greeting
b231386 (greeting, feature) HEAD@{17}: checkout: moving from greeting to master
46b022c (HEAD) HEAD@{18}: checkout: moving from master to greeting
b231386 (greeting, feature) HEAD@{19}: merge greeting: Merge made by the 'ort' strategy.
a0063f1 HEAD@{20}: commit: On branch master
cb792ec HEAD@{21}: checkout: moving from greeting to master
46b022c (HEAD) HEAD@{22}: commit: On branch greeting
cb792ec HEAD@{23}: checkout: moving from master to greeting
cb792ec HEAD@{24}: checkout: moving from greeting to master
cb792ec HEAD@{25}: checkout: moving from master to greeting
cb792ec HEAD@{26}: merge feature/uppercase: Fast-forward
5725322 HEAD@{27}: checkout: moving from feature/uppercase to master
cb792ec HEAD@{28}: checkout: moving from master to feature/uppercase
5725322 HEAD@{29}: checkout: moving from feature/uppercase to master
cb792ec HEAD@{30}: commit: On branch feature/uppercase
5725322 HEAD@{31}: checkout: moving from master to feature/uppercase
5725322 HEAD@{32}: checkout: moving from mybranch to master
0a76ea1 (mybranch) HEAD@{33}: checkout: moving from master to mybranch

```

```

[5]+ Stopped          git reflog
tarakram.dwaram@JNQHY2:~/katas$ git rebase -i cb792ec
fatal: It seems that there is already a rebase-merge directory, and
I wonder if you are in the middle of another rebase. If that is the
case, please try

```

```

    git rebase (--continue | --abort | --skip)
If that is not the case, please

```

```
rm -fr ".git/rebase-merge"
```

and run me again. I am stopping in case you still have something valuable there.

```
tarakram.dwaram@JNQHY2:~/katas$ git rebase skip
```

fatal: It seems that there is already a rebase-merge directory, and I wonder if you are in the middle of another rebase. If that is the case, please try

```
git rebase (--continue | --abort | --skip)
```

If that is not the case, please

```
rm -fr ".git/rebase-merge"
```

and run me again. I am stopping in case you still have something valuable there.

```
tarakram.dwaram@JNQHY2:~/katas$ rm -fr ".git/rebase-merge"
```

```
tarakram.dwaram@JNQHY2:~/katas$ git rebase skip
```

fatal: invalid upstream 'skip'

```
tarakram.dwaram@JNQHY2:~/katas$ git rebase -i cb792ec
```

Successfully rebased and updated detached HEAD.

```
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph
```

it: command not found

```
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline --graph
```

- * 46b022c (HEAD) On branch greeting
- * cb792ec On branch feature/uppercase
- * 5725322 On branch master
- * 024652e On branch master
- * f8456a2 On branch master
- * 30da858 On branch master
- * 5e06ab5 On branch master

```
tarakram.dwaram@JNQHY2:~/katas$ git reflog
```

46b022c (HEAD) HEAD@{0}: rebase (start): checkout 46b022c
91b67ee (master) HEAD@{1}: commit (amend): Revert " On branch master"
c9a0a8e HEAD@{2}: commit (amend): Revert " On branch master"
ed24202 HEAD@{3}: revert: Revert " On branch master"
b231386 (greeting, feature) HEAD@{4}: reset: moving to HEAD~1
bc0c0fb HEAD@{5}: reset: moving to HEAD~1
717187f HEAD@{6}: reset: moving to HEAD~1
4b6806a HEAD@{7}: revert: Revert "Revert " On branch master"
717187f HEAD@{8}: revert: Revert " On branch master"
bc0c0fb HEAD@{9}: commit: On branch master
b231386 (greeting, feature) HEAD@{10}: checkout: moving from feature to master
b231386 (greeting, feature) HEAD@{11}: checkout: moving from master to feature
b231386 (greeting, feature) HEAD@{12}: checkout: moving from feature to master
b231386 (greeting, feature) HEAD@{13}: checkout: moving from master to feature

b231386 (greeting, feature) HEAD@{14}: checkout: moving from greeting to master
b231386 (greeting, feature) HEAD@{15}: merge master: Fast-forward
46b022c (HEAD) HEAD@{16}: checkout: moving from master to greeting
b231386 (greeting, feature) HEAD@{17}: checkout: moving from greeting to master
46b022c (HEAD) HEAD@{18}: checkout: moving from master to greeting
b231386 (greeting, feature) HEAD@{19}: merge greeting: Merge made by the 'ort' strategy.
a0063f1 HEAD@{20}: commit: On branch master
cb792ec HEAD@{21}: checkout: moving from greeting to master
46b022c (HEAD) HEAD@{22}: commit: On branch greeting
cb792ec HEAD@{23}: checkout: moving from master to greeting
cb792ec HEAD@{24}: checkout: moving from greeting to master
cb792ec HEAD@{25}: checkout: moving from master to greeting
cb792ec HEAD@{26}: merge feature/upercase: Fast-forward
5725322 HEAD@{27}: checkout: moving from feature/upercase to master
cb792ec HEAD@{28}: checkout: moving from master to feature/upercase
5725322 HEAD@{29}: checkout: moving from feature/upercase to master
cb792ec HEAD@{30}: commit: On branch feature/upercase
5725322 HEAD@{31}: checkout: moving from master to feature/upercase
5725322 HEAD@{32}: checkout: moving from mybranch to master
0a76ea1 (mybranch) HEAD@{33}: checkout: moving from master to mybranch

[6]+ Stopped git reflog
tarakram.dwaram@JNQHY2:~/katas\$

Squash commits

tarakram.dwaram@JNQHY2:~/katas\$ git log
commit 46b022c5b174f7d2adbd9ed74e1e479a3e08595c (HEAD)
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:12:53 2022 +0530

On branch greeting

commit cb792ece6334acb9565c7762a5bb542bb93e0419
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 14:54:17 2022 +0530

On branch feature/upercase

commit 57253222d116677b8cc97c5e47c850624dcb76ed
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 14:44:27 2022 +0530

On branch master

commit 024652e7e07bd0b6842f5e73b56e64e661904a0f

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 14:02:20 2022 +0530

On branch master

commit f8456a26b6af5d5dc1d127ce625a37e5b8910455

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 13:28:59 2022 +0530

On branch master

commit 30da858e17c62b23c7c19aa498b62af2be9d1d0b

Author: tarakram772 <tarakram.dwaram@zemosolabs.com>

Date: Wed Feb 16 13:26:02 2022 +0530

[8]+ Stopped git log

tarakram.dwaram@JNQHY2:~/katas\$ git reflog

46b022c (HEAD) HEAD@{0}: rebase (start): checkout 46b022c

91b67ee (master) HEAD@{1}: commit (amend): Revert " On branch master"

c9a0a8e HEAD@{2}: commit (amend): Revert " On branch master"

ed24202 HEAD@{3}: revert: Revert " On branch master"

b231386 (greeting, feature) HEAD@{4}: reset: moving to HEAD~1

bc0c0fb HEAD@{5}: reset: moving to HEAD~1

717187f HEAD@{6}: reset: moving to HEAD~1

4b6806a HEAD@{7}: revert: Revert "Revert " On branch master""

717187f HEAD@{8}: revert: Revert " On branch master"

bc0c0fb HEAD@{9}: commit: On branch master

b231386 (greeting, feature) HEAD@{10}: checkout: moving from feature to master

b231386 (greeting, feature) HEAD@{11}: checkout: moving from master to feature

b231386 (greeting, feature) HEAD@{12}: checkout: moving from feature to master

b231386 (greeting, feature) HEAD@{13}: checkout: moving from master to feature

b231386 (greeting, feature) HEAD@{14}: checkout: moving from greeting to master

b231386 (greeting, feature) HEAD@{15}: merge master: Fast-forward

46b022c (HEAD) HEAD@{16}: checkout: moving from master to greeting

b231386 (greeting, feature) HEAD@{17}: checkout: moving from greeting to master

46b022c (HEAD) HEAD@{18}: checkout: moving from master to greeting

b231386 (greeting, feature) HEAD@{19}: merge greeting: Merge made by the 'ort' strategy.

a0063f1 HEAD@{20}: commit: On branch master

cb792ec HEAD@{21}: checkout: moving from greeting to master
46b022c (HEAD) HEAD@{22}: commit: On branch greeting
cb792ec HEAD@{23}: checkout: moving from master to greeting
cb792ec HEAD@{24}: checkout: moving from greeting to master
cb792ec HEAD@{25}: checkout: moving from master to greeting
cb792ec HEAD@{26}: merge feature/uppercase: Fast-forward
5725322 HEAD@{27}: checkout: moving from feature/uppercase to master
cb792ec HEAD@{28}: checkout: moving from master to feature/uppercase
5725322 HEAD@{29}: checkout: moving from feature/uppercase to master
cb792ec HEAD@{30}: commit: On branch feature/uppercase
5725322 HEAD@{31}: checkout: moving from master to feature/uppercase
5725322 HEAD@{32}: checkout: moving from mybranch to master
0a76ea1 (mybranch) HEAD@{33}: checkout: moving from master to mybranch

[9]+ Stopped git reflog

tarakram.dwaram@JNQHY2:~/katas\$ git rebase -i b231386

Successfully rebased and updated detached HEAD.

tarakram.dwaram@JNQHY2:~/katas\$ git branch

* (HEAD detached at b231386)

feature

greeting

master

mybranch

tarakram.dwaram@JNQHY2:~/katas\$ git switch feature

Switched to branch 'feature'

tarakram.dwaram@JNQHY2:~/katas\$ git branch

* feature

greeting

master

mybranch

tarakram.dwaram@JNQHY2:~/katas\$ ll

total 32

drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:12 ./

drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../

-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 9 Feb 16 14:50 file2.txt

-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt

drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:14 .git/

-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt

-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1

-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 18:12 README.md

tarakram.dwaram@JNQHY2:~/katas\$ cat file2.txt

reddyam

tarakram.dwaram@JNQHY2:~/katas\$ vi file2.txt

tarakram.dwaram@JNQHY2:~/katas\$ git add file2.txt

```
tarakram.dwaram@JNQHY2:~/katas$ git commit --amend
[feature 88720e5] Merge branch 'greeting'
Date: Wed Feb 16 15:20:51 2022 +0530
tarakram.dwaram@JNQHY2:~/katas$
```

Gitkatas

```
tarakram.dwaram@JNQHY2:~/katas$ ls -l
total 20
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 15 Feb 16 18:16 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  2 Feb 16 14:03 file.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 18:12 README.md
tarakram.dwaram@JNQHY2:~/katas$ tail -n +1 *
==> file2.txt <==
tarak reddyram
```

```
==> file.txt <==
3
```

```
==> greeting.txt <==
```

```
C
new Katas assignmennet
```

```
==> katas1 <==
gunasekar
zemoso
tharak
```

```
==> README.md <==
itthis is the repository of the github
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline
88720e5 (HEAD -> feature) Merge branch 'greeting'
a0063f1 On branch master
46b022c On branch greeting
cb792ec On branch feature/uppercase
5725322 On branch master
024652e On branch master
f8456a2 On branch master
```

30da858 On branch master
5e06ab5 On branch master
tarakram.dwaram@JNQHY2:~/katas\$ git log --stat
commit 88720e54b5e5a5291203be6067c84d277fdbe8f2 (HEAD -> feature)
Merge: a0063f1 46b022c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:20:51 2022 +0530

Merge branch 'greeting'

On branch feature

commit a0063f1e45f69fc0607ff84f71dd674ad3e82218
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:16:44 2022 +0530

On branch master

README.md | 1 +
1 file changed, 1 insertion(+)

commit 46b022c5b174f7d2adbd9ed74e1e479a3e08595c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:12:53 2022 +0530

On branch greeting

greeting.txt | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)

commit cb792ece6334acb9565c7762a5bb542bb93e0419
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 14:54:17 2022 +0530

On branch feature/uppercase

greeting.txt | 1 +

[10]+ Stopped git log --stat
tarakram.dwaram@JNQHY2:~/katas\$ git log --patch
commit 88720e54b5e5a5291203be6067c84d277fdbe8f2 (HEAD -> feature)
Merge: a0063f1 46b022c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:20:51 2022 +0530

Merge branch 'greeting'

On branch feature

```
commit a0063f1e45f69fc0607ff84f71dd674ad3e82218
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:16:44 2022 +0530
```

On branch master

```
diff --git a/README.md b/README.md
new file mode 100644
index 0000000..eda3d03
--- /dev/null
+++ b/README.md
@@ -0,0 +1 @@
+this is the repository of the github
```

```
commit 46b022c5b174f7d2adbd9ed74e1e479a3e08595c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:12:53 2022 +0530
```

On branch greeting

```
diff --git a/greeting.txt b/greeting.txt
index a60ebf7..b996c9b 100644
--- a/greeting.txt
+++ b/greeting.txt
@@ -1 +1,3 @@
```

```
[11]+ Stopped          git log --patch
tarakram.dwaram@JNQHY2:~/katas$
```

Git Kata: Basic stashing

```
tarakram.dwaram@JNQHY2:~/katas$ ls -l
total 20
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 15 Feb 16 18:16 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram  2 Feb 16 14:03 file.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
```

```
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 18:12 README.md
tarakram.dwaram@JNQHY2:~/katas$ tail -n +1 *
```

```
==> file2.txt <==
```

```
tarak reddyram
```

```
==> file.txt <==
```

```
3
```

```
==> greeting.txt <==
```

```
C
```

```
new Katas assignmennet
```

```
==> katas1 <==
```

```
gunasekar
```

```
zemoso
```

```
tharak
```

```
==> README.md <==
```

```
itthis is the repository of the github
```

```
tarakram.dwaram@JNQHY2:~/katas$ git log --oneline
```

```
88720e5 (HEAD -> feature) Merge branch 'greeting'
```

```
a0063f1 On branch master
```

```
46b022c On branch greeting
```

```
cb792ec On branch feature/uppercase
```

```
5725322 On branch master
```

```
024652e On branch master
```

```
f8456a2 On branch master
```

```
30da858 On branch master
```

```
5e06ab5 On branch master
```

```
tarakram.dwaram@JNQHY2:~/katas$ git log --stat
```

```
commit 88720e54b5e5a5291203be6067c84d277fdbe8f2 (HEAD -> feature)
```

```
Merge: a0063f1 46b022c
```

```
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
```

```
Date: Wed Feb 16 15:20:51 2022 +0530
```

```
Merge branch 'greeting'
```

```
On branch feature
```

```
commit a0063f1e45f69fc0607ff84f71dd674ad3e82218
```

```
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
```

```
Date: Wed Feb 16 15:16:44 2022 +0530
```

On branch master

README.md | 1 +
1 file changed, 1 insertion(+)

commit 46b022c5b174f7d2adbd9ed74e1e479a3e08595c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:12:53 2022 +0530

On branch greeting

greeting.txt | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)

commit cb792ece6334acb9565c7762a5bb542bb93e0419
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 14:54:17 2022 +0530

On branch feature/uppercase

greeting.txt | 1 +

[10]+ Stopped git log --stat
tarakram.dwaram@JNQHY2:~/katas\$ git log --patch
commit 88720e54b5e5a5291203be6067c84d277fdbe8f2 (HEAD -> feature)
Merge: a0063f1 46b022c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:20:51 2022 +0530

Merge branch 'greeting'

On branch feature

commit a0063f1e45f69fc0607ff84f71dd674ad3e82218
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:16:44 2022 +0530

On branch master

diff --git a/README.md b/README.md
new file mode 100644
index 0000000..eda3d03
--- /dev/null

```
+++ b/README.md
@@ -0,0 +1 @@
+this is the repository of the github
```

```
commit 46b022c5b174f7d2adbd9ed74e1e479a3e08595c
Author: tarakram772 <tarakram.dwaram@zemosolabs.com>
Date: Wed Feb 16 15:12:53 2022 +0530
```

On branch greeting

```
diff --git a/greeting.txt b/greeting.txt
index a60ebf7..b996c9b 100644
--- a/greeting.txt
+++ b/greeting.txt
@@ -1 +1,3 @@
```

```
[11]+ Stopped          git log --patch
tarakram.dwaram@JNQHY2:~/katas$
tarakram.dwaram@JNQHY2:~/katas$
tarakram.dwaram@JNQHY2:~/katas$ git stash
No local changes to save
tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x  3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:16 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r--  1 tarakram.dwaram tarakram.dwaram  15 Feb 16 18:16 file2.txt
-rw-rw-r--  1 tarakram.dwaram tarakram.dwaram   2 Feb 16 14:03 file.txt
drwxrwxr-x  8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:37 .git/
-rw-rw-r--  1 tarakram.dwaram tarakram.dwaram  26 Feb 16 16:53 greeting.txt
-rw-rw-r--  1 tarakram.dwaram tarakram.dwaram  25 Feb 16 13:24 katas1
-rw-rw-r--  1 tarakram.dwaram tarakram.dwaram  38 Feb 16 18:12 README.md
tarakram.dwaram@JNQHY2:~/katas$ vi file2.txt
tarakram.dwaram@JNQHY2:~/katas$ git add file2.txt
tarakram.dwaram@JNQHY2:~/katas$ vi file2.txt
tarakram.dwaram@JNQHY2:~/katas$ git stash
Saved working directory and index state WIP on feature: 88720e5 Merge branch 'greeting'
tarakram.dwaram@JNQHY2:~/katas$ git commit
On branch feature
nothing to commit, working tree clean
tarakram.dwaram@JNQHY2:~/katas$ cat file2.txt
tarak reddyram
tarakram.dwaram@JNQHY2:~/katas$ git reset --hard HEAD
HEAD is now at 88720e5 Merge branch 'greeting'
tarakram.dwaram@JNQHY2:~/katas$ git stash apply --88720e5
```

error: unknown option `88720e5'

usage: git stash apply [--index] [-q|--quiet] [<stash>]

-q, --quiet	be quiet, only report errors
--index	attempt to recreate the index

tarakram.dwaram@JNQHY2:~/katas\$ git stash apply --index

On branch feature

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: file2.txt

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: file2.txt

tarakram.dwaram@JNQHY2:~/katas\$ git stash drop

Dropped refs/stash@{0} (ee6ca6c14e7c43cfb1c04b36aedd1c91543cf7fd)

tarakram.dwaram@JNQHY2:~/katas\$ git log --oneline --all --graph

* 88720e5 (HEAD -> feature) Merge branch 'greeting'

|\

| | * 91b67ee (master) Revert " On branch master"

| | * b231386 (greeting) Merge branch 'greeting'

| |

| |

| * 46b022c On branch greeting

* | a0063f1 On branch master

|

* cb792ec On branch feature/uppercase

* 5725322 On branch master

| * 0a76ea1 (mybranch) On branch mybranch

|

* 024652e On branch master

* f8456a2 On branch master

* 30da858 On branch master

* 5e06ab5 On branch master

tarakram.dwaram@JNQHY2:~/katas\$

Git Kata: Basic Ignore

```
tarakram.dwaram@JNQHY2:~/katas$ vi foo.s
tarakram.dwaram@JNQHY2:~/katas$ git status
```

On branch feature

Changes to be committed:

(use "git restore --staged <file>..." to unstage)
modified: file2.txt

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
modified: file2.txt

Untracked files:

(use "git add <file>..." to include in what will be committed)
foo.s

```
tarakram.dwaram@JNQHY2:~/katas$ mkdir .gitignore
tarakram.dwaram@JNQHY2:~/katas$ cp *.s .gitignore
tarakram.dwaram@JNQHY2:~/katas$ touch .gitignore
tarakram.dwaram@JNQHY2:~/katas$ ll
total 36
drwxrwxr-x 4 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:45 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 17 Feb 16 18:41 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 18:44 foo.s
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:44 .git/
drwxrwxr-x 2 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:47 .gitignore/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 18:12 README.md
tarakram.dwaram@JNQHY2:~/katas$ rm -rf .gitignore
tarakram.dwaram@JNQHY2:~/katas$ llv
i
```

Command 'llv' not found, did you mean:

command 'llt' from deb storebackup (3.2.1-1+deb8u1build0.20.04.1)
command 'lli' from deb llvm-runtime (1:10.0-50~exp1)
command 'lld' from deb lld (1:10.0-50~exp1)
command 'lv' from deb lv (4.51-7)
command 'llc' from deb llvm (1:10.0-50~exp1)

Try: sudo apt install <deb name>

```

tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:48 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 17 Feb 16 18:41 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 18:44 foo.s
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:44 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 18:12 README.md
tarakram.dwaram@JNQHY2:~/katas$ vi .gitignore
tarakram.dwaram@JNQHY2:~/katas$ cp *.s >> .gitignore
cp: missing destination file operand after 'foo.s'
Try 'cp --help' for more information.
tarakram.dwaram@JNQHY2:~/katas$ ll
total 32
drwxrwxr-x 3 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:49 ./
drwxr-xr-x 12 tarakram.dwaram tarakram.dwaram 4096 Feb 16 13:30 ../
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 17 Feb 16 18:41 file2.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 2 Feb 16 14:03 file.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 18:44 foo.s
drwxrwxr-x 8 tarakram.dwaram tarakram.dwaram 4096 Feb 16 18:44 .git/
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 0 Feb 16 18:49 .gitignore
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 26 Feb 16 16:53 greeting.txt
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 25 Feb 16 13:24 katas1
-rw-rw-r-- 1 tarakram.dwaram tarakram.dwaram 38 Feb 16 18:12 README.md
tarakram.dwaram@JNQHY2:~/katas$ git add .gitignore
tarakram.dwaram@JNQHY2:~/katas$ git commit
Aborting commit due to empty commit message.
tarakram.dwaram@JNQHY2:~/katas$ git commit
[feature 02e4f82] On branch feature
2 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 .gitignore
tarakram.dwaram@JNQHY2:~/katas$ echo "!file2.txt" >> .gitignore
bash: !file2.txt: event not found
tarakram.dwaram@JNQHY2:~/katas$ echo "file2.txt" >> .gitignore
tarakram.dwaram@JNQHY2:~/katas$ vi file1.txt
tarakram.dwaram@JNQHY2:~/katas$ git status
On branch feature
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   .gitignore

```

modified: file2.txt

Untracked files:

(use "git add <file>..." to include in what will be committed)

file1.txt

foo.s

no changes added to commit (use "git add" and/or "git commit -a")

tarakram.dwaram@JNQHY2:~/katas\$ touch file3.txt

tarakram.dwaram@JNQHY2:~/katas\$ git status

On branch feature

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: .gitignore

modified: file2.txt

Untracked files:

(use "git add <file>..." to include in what will be committed)

tarakram.dwaram@JNQHY2:~/katas\$ git tag

tarakram.dwaram@JNQHY2:~/katas\$ git branch

* feature

greeting

master

mybranch

tarakram.dwaram@JNQHY2:~/katas\$ git tag tarak

tarakram.dwaram@JNQHY2:~/katas\$ git tag

tarak

tarakram.dwaram@JNQHY2:~/katas\$ git log --oneline

02e4f82 (HEAD -> feature, tag: tarak) On branch feature

88720e5 Merge branch 'greeting'

a0063f1 On branch master

46b022c On branch greeting

cb792ec On branch feature/uppercase

5725322 On branch master

024652e On branch master

f8456a2 On branch master

30da858 On branch master

5e06ab5 On branch master

tarakram.dwaram@JNQHY2:~/katas\$

file1.txt

file3.txt

foo.s

Git Kata: Tagging of the commits