Basic commit





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The branch sector of the committee of t
```

Basic staging

```
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~
$ cd desktop
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop
$ cd git-katas
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ touch file1.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ cat file1.txt
this is vishnu racharla from zemoso
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ echo 2 >file1.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ cat file1.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git diff
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git diff --staged
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git add file1.txt
warning: LF will be replaced by CRLF in file1.txt.
The file will have its original line endings in your working directory
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git diff
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git diff --staged
diff --git a/file1.txt b/file1.txt
new file mode 100644
index 00000000..0cfbf08
--- /dev/null
+++ b/file1.txt
 @@ -0,0 +1 @@
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ echo 3 >file1.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git diff
warning: LF will be replaced by CRLF in file1.txt.
The file will have its original line endings in your working directory diff --git a/file1.txt b/file1.txt index Ocfbf08.00750ed 100644
--- a/file1.txt
+++ b/file1.txt
 10 -1 +1 00
```

```
--- a/Tilel.txt
+++ b/file1.txt
     -1 +1 @@
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git diff --staged
diff --git a/file1.txt b/file1.txt
new file mode 100644
index 00000000..0cfbf08
--- /dev/null
+++ b/file1.txt
    -0,0 +1 @@
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
 On branch master
Changes to be committed:

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

new file: file1.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)
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git reset HEAD file1.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git status
On branch master
Untracked files:
(use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git add file1.txt
warning: LF will be replaced by CRLF in file1.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git commit -m "stage commit"
[master 0f90ab5] stage commit
1 file changed, 1 insertion(+)
create mode 100644 file1.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
% git log
commit 0f90ab55693c8d30841bc3a23159d43b6c6684b2 (HEAD -> master)
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sat Oct 9 12:17:16 2021 +0530
```

```
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date:
           Sat Oct 9 12:17:16 2021 +0530
     stage commit
commit e58290361062ba658860a70960976da31185f280
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sat Oct 9 12:04:57 2021 +0530
     stage commit
commit a7a2f5c256981db476d1f1145f0e750457410805
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sat Oct 9 09:56:55 2021 +0530
     latest modified
commit b0f69a0d0036bd54bf8953e036fab9a9004648aa
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sat Oct 9 09:54:42 2021 +0530
     file modified
0 [sig] bash 192! sigpacket::process: Suppressing signal 18 to win32 process (pid 936)
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sat Oct 9 12:17:16 2021 +0530
     stage commit
commit e58290361062ba658860a70960976da31185f280
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
          Sat Oct 9 12:04:57 2021 +0530
Date:
     stage commit
commit a7a2f5c256981db476d1f1145f0e750457410805
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sat Oct 9 09:56:55 2021 +0530
     latest modified
commit b0f69a0d0036bd54bf8953e036fab9a9004648aa
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sat Oct 9 09:54:42 2021 +0530
     file modified
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ echo 4 >file1.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
```

```
commit bufbyauduu36bd54bf8y53eU36fabyayuu4648aa
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date:
         Sat Oct 9 09:54:42 2021 +0530
     file modified
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ echo 4 >file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ cat file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ 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)
no changes added to commit (use "git add" and/or "git commit -a")
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git checkout file1.txt
Updated 1 path from the index
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ cat file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
$ git status
On branch master
nothing to commit, working tree clean
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (master)
```

Basic Branching

```
P-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git branch
 ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git branch mybranch
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git branch
  mybranch
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git checkout mybranch
Switched to branch 'mybranch'
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git status
On branch mybranch
nothing to commit, working tree clean
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ touch file2.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ vi file2.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
S git add file2.txt
warning: LF will be replaced by CRLF in file2.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git commit -m "file2 commit in branching"
[mybranch 522bc89] file2 commit in branching
1 file changed, 1 insertion(+)
create mode 100644 file2.txt
 TSHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
  git log --oneline --graph
522bc89 (HEAD -> mybranch) file2 commit in branching
a27d98f (master) first
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git checkout master
Switched to branch 'master'
 TISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline --graph
  a27d98f (HEAD -> master) first
 ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ touch file3.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m "file3 commit in branching"
On branch master
```

```
/desktop/git_katas (master)
$ git commit -m "file3 commit in branching"
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add -A
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m "file3 commit in branching"
[master 9ec038e] file3 commit in branching
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file3.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline --graph --all
  9ec038e (HEAD -> master) file3 commit in branching
* 522bc89 (mybranch) file2 commit in branching
  a27d98f first
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git checkout mybranch
Switched to branch 'mybranch'
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git log --oneline --graph --all
  9ec038e (master) file3 commit in branching

* 522bc89 (HEAD -> mybranch) file2 commit in branching
  a27d98f first
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ 1s
file1.txt file2.txt
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git dif mybranch master
git: 'dif' is not a git command. See 'git --help'.
The most similar commands are
          diff
          config
          difftool
          init
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git diff mybranch master
diff --git a/file2.txt b/file2.txt
deleted file mode 100644
index 425ee77..0000000
```

```
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git branch uppercase
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git checkout uppercase
Switched to branch 'uppercase'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ git status
On branch uppercase
nothing to commit, working tree clean
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ touch greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ vi greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ git add -A
warning: LF will be replaced by CRLF in greeting.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ git commit -m "greeting file commit"
[uppercase 90ecb13] greeting file commit
1 file changed, 1 insertion(+)
create mode 100644 greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ git branch
 master
 mybranch
 uppercase
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ git log --oneline --graph --all
* 90ecb13 (HEAD -> uppercase) greeting file commit
* 9ec038e (master) file3 commit in branching
 * 522bc89 (mybranch) file2 commit in branching
* a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ git checkout master
Switched to branch 'master'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ cat greeting.txt
cat: greeting.txt: No such file or directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git diff uppercase master
diff --git a/greeting.txt b/greeting.txt
deleted file mode 100644
index 800eff4..0000000
 -- a/greeting.txt
```

```
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (uppercase)
$ git checkout master
Switched to branch 'master'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ cat greeting.txt
cat: greeting.txt: No such file or directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git diff uppercase master
diff --git a/greeting.txt b/greeting.txt
deleted file mode 100644
index 800eff4..0000000
--- a/greeting.txt
+++ /dev/null
@@ -1 +0,0 @@
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git merge uppercase
Updating 9ec038e..90ecb13
Fast-forward
greeting.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ cat greeting.txt
grreting
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git branch -d uppercase
Deleted branch uppercase (was 90ecb13).
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
```

3 way merge

```
GU MINGW64 ~/desktop/git_katas (master)
$ git branch greeting
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git checkout greeting
Switched to branch 'greeting'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (greeting)
$ touch greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (greeting)
$ vi greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (greeting)
$ git add -A
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (greeting)
$ git commit -m "greeting file in 3-way merge commit"
[greeting 21e9444] greeting file in 3-way merge commit
1 file changed, 1 insertion(+), 1 deletion(-)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (greeting)
$ git checkout master
Switched to branch 'master'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ touch README.md
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ vi README.md
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add -A
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m "3 way merge Readme commit'
[master 9d562be] 3 way merge Readme commit
 1 file changed, 1 insertion(+) create mode 100644 README.md
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline --graph --all
  9d562be (HEAD -> master) 3 way merge Readme commit
  * 21e9444 (greeting) greeting file in 3-way merge commit
  90ecb13 greeting file commit
  9ec038e file3 commit in branching
```

```
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline --graph --all
  9d562be (HEAD -> master) 3 way merge Readme commit
  * 21e9444 (greeting) greeting file in 3-way merge commit
* 90ecb13 greeting file commit
 9ec038e file3 commit in branching
  * 522bc89 (mybranch) file2 commit in branching
 a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git diff greeting mybranch
diff --git a/file2.txt b/file2.txt
new file mode 100644
index 0000000..425ee77
--- /dev/null
+++ b/file2.txt
@@ -0,0 +1 @@
+hii this is vishnu
diff --git a/file3.txt b/file3.txt
deleted file mode 100644
index e69de29..0000000
diff --git a/greeting.txt b/greeting.txt
deleted file mode 100644
index ee46bdf..0000000
--- a/greeting.txt
+++ /dev/null
@@ -1 +0,0 @@
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git merge greeting
Merge made by the 'recursive' strategy.
greeting.txt | 2 -
 1 file changed, 1 insertion(+), 1 deletion(-)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline --graph -all
error: switch `l' expects a numerical value
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline --graph --all
    6fa1c70 (HEAD -> master) Merge branch 'greeting'
  * 21e9444 (greeting) greeting file in 3-way merge commit
  9d562be 3 way merge Readme commit
 90ecb13 greeting file commit
 9ec038e file3 commit in branching
  * 522bc89 (mybranch) file2 commit in branching
 a27d98f first
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
```

Merge conflict

```
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ cat greeting.txt
grreting to vishnu
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ echo "good morning" >greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git branch merge-conflict-branch1
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ echo "good evening" >greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ cat greeting.txt
good evening
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add -A
warning: LF will be replaced by CRLF in greeting.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m "greeting conflict in master"
[master 875d70c] greeting conflict in master
 1 file changed, 1 insertion(+), 1 deletion(-)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git checkout merge-conflict-branch1
Switched to branch 'merge-conflict-branch1'
vISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (merge-conflict-branch1)
README.md file1.txt file3.txt greeting.txt
vISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (merge-conflict-branch1)
$ echo "good night" >greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (merge-conflict-branch1)
$ cat greeting.txt
good night
vISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (merge-conflict-branch1)
$ git add -A
warning: LF will be replaced by CRLF in greeting.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (merge-conflict-branch1)
$ git commit -m "greeting conflict in merge-conflict"
[merge-conflict-branch1 5d1225b] greeting conflict in merge-conflict
1 file changed, 1 insertion(+), 1 deletion(-)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (merge-conflict-branch1)
$ git checkout master
Switched to branch 'master'
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
```

```
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (merge-conflict-branch1)
$ git checkout master
Switched to branch 'master'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git merge merge-conflict-branch1
Auto-merging greeting.txt
CONFLICT (content): Merge conflict in greeting.txt
Automatic merge failed; fix conflicts and then commit the result.
vISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ cat greeting.txt
<<<<< HEAD
good evening
good night
>>>>> merge-conflict-branch1
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ vi greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ cat greeting.txt
<<<<< HEAD
good evening
>>>>> merge-conflict-branch1
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ git add -A
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ git commit -m "greeting conflict final"
[master 2b06c04] greeting conflict final
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
 git log --oneline --graph --all
    2b06c04 (HEAD -> master) greeting conflict final
  * 5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
    875d70c greeting conflict in master
    6fa1c70 Merge branch 'greeting'
  * 21e9444 (greeting) greeting file in 3-way merge commit
    9d562be 3 way merge Readme commit
  90ecb13 greeting file commit
  9ec038e file3 commit in branching
* 522bc89 (mybranch) file2 commit in branching
  a27d98f first
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
```

```
/64 ~/desktop/git_katas (master)
$ git branch mergesort-impl
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ echo 1 >greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add -A
warning: LF will be replaced by CRLF in greeting.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m "master mergesort-impl
[master 59dfada] master mergesort-impl
1 file changed, 1 insertion(+), 3 deletions(-)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git checkout mergesort-impl
Switched to branch 'mergesort-impl'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mergesort-impl)
$ echo 2 >greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mergesort-impl)
$ git add -A
warning: LF will be replaced by CRLF in greeting.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mergesort-impl)
$ git commit -m "mergesort-impl commit"
[mergesort-impl 27407fc] mergesort-impl commit
1 file changed, 1 insertion(+), 3 deletions(-)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mergesort-impl)
$ git checkout master
Switched to branch 'master'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git merge mergesort-impl
Auto-merging greeting.txt
CONFLICT (content): Merge conflict in greeting.txt
Automatic merge failed; fix conflicts and then commit the result.
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ cat greeting.txt
>>>>> mergesort-impl
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ git branch
 greeting
  master
 merge-conflict-branch1
 mergesort-impl
 mybranch
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|MERGING)
$ git mergetool --tool=vimdiff
Merging:
greeting.txt
Normal merge conflict for 'greeting.txt':
  {local}: modified file
  {remote}: modified file
```

1	
<pre></pre>	
<pre></pre>	
>>>>> mergesort-impl	
~ ~ ~	
~ ~ ~	
~ ~ ~	
~	

Rebase branch

```
-P4F8HGU MINGW64 ~/desktop/git_katas (master)
 git branch
  greeting
  master
  merge-conflict-branch1
  mergesort-impl
  mybranch
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline --graph --all
* 30ea3a2 (HEAD -> master) mergetool commit
    27407fc (mergesort-impl) mergesort-impl commit
    59dfada master mergesort-impl
     2b06c04 greeting conflict final
  * 5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
    875d70c greeting conflict in master
    6fa1c70 Merge branch 'greeting'
  * 21e9444 (greeting) greeting file in 3-way merge commit
  9d562be 3 way merge Readme commit
  90ecb13 greeting file commit
9ec038e file3 commit in branching
* 522bc89 (mybranch) file2 commit in branching
  a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git checkout mybranch
Switched to branch 'mybranch'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git rebase master
Successfully rebased and updated refs/heads/mybranch.
```

```
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (mybranch)
$ git checkout master
Switched to branch 'master'
```

```
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)

§ git merge mybranch
Updating 30ea3a2..88f75ae
Fast-forward
file2.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 file2.txt

VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
§ git log --oneline --graph --all
* 88f75ae (HEAD -> master, mybranch) file2 commit in branching
* 30ea3a2 mergetool commit

| * 27407fc (mergesort-impl) mergesort-impl commit
* | 59dfada master mergesort-impl

* 2b06c04 greeting conflict final

| * 5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
* | 875d70c greeting conflict in master

| /
6falc70 Merge branch 'greeting'
| * 21e9444 (greeting) greeting file in 3-way merge commit
* | 9d562be 3 way merge Readme commit
| /
* 90ecb13 greeting file commit
* 9ec038e file3 commit in branching
* a27d98f first
```

Basic revert

```
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --decorate --oneline
88f75ae (HEAD -> master, mybranch) file2 commit in branching
30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final
5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6fa1c70 Merge branch 'greeting'
9<mark>d562be</mark> 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ cat greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ echo 'hi' >greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add -A
warning: LF will be replaced by CRLF in greeting.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m 'sample'
[master f4f79c1] sample
1 file changed, 1 insertion(+), 2 deletions(-)
VISHNU@DESKTOP-P4F8HGU MING
                                     W64 ~/desktop/git_katas (master)
$ git log --decorate --oneline
f4f79c1 (HEAD -> master) sample
88f75ae (mybranch) file2 commit in branching
30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final
5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6fa1c70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add -A
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m "sample"
```

```
$ git add -A
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit -m "sample"
On branch master
nothing to commit, working tree clean
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git revert f4f79c1
[master 36b67f4] Revert "sample"
 1 file changed, 2 insertions(+), 1 deletion(-)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --decorate --oneline
36b67f4 (HEAD -> master) Revert "sample"
f4f79c1 sample
88f75ae (mybranch) file2 commit in branching
30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final
5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6fa1c70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ 1s
README.md file3.txt
                                            greeting_BASE_1222.txt
                                            greeting_LOCAL_1222.txt
file1.txt greeting.txt
file2.txt greeting_BACKUP_1222.txt greeting_REMOTE_1222.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --decorate --oneline
36b67f4 (HEAD -> master) Revert "sample"
f4f79c1 sample
88f75ae (mybranch) file2 commit in branching
30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final
5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6fa1c70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git revert 36b67f4
[master 730c785] Revert "Revert "sample""
```

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#

```
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --decorate --oneline
730c785 (HEAD -> master) Revert "Revert "sample""
36b67f4 Revert "sample"
f4f79c1 sample
88f75ae (mybranch) file2 commit in branching 30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final 5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master 6fa1c70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git revert 36b67f4
On branch master
nothing to commit, working tree clean
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git show 36b67f4
commit 36b67f43c1f603608fa6ab357b069e92a4302aed
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
         Sat Oct 9 22:56:40 2021 +0530
Date:
    Revert "sample"
    This reverts commit f4f79c112e93eb5e8cc6a9ba42f676a633dc172e.
diff --git a/greeting.txt b/greeting.txt
index 45b983b..a464d9d 100644
--- a/greeting.txt
+++ b/greeting.txt
@@ -1 +1.2 @@
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
```

Basic reset

```
SKTOP-P4F8HGU MINGW64 ~
$ cd desktop
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop
$ cd git_katas
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
total 7
total 7
-rw-r--r-- 1 VISHNU 197121 63 Oct 9 21:58 README.md
-rw-r--r-- 1 VISHNU 197121 0 Oct 9 16:45 file1.txt
-rw-r--r-- 1 VISHNU 197121 20 Oct 9 22:10 file2.txt
-rw-r--r-- 1 VISHNU 197121 0 Oct 9 21:58 file3.txt
-rw-r--r-- 1 VISHNU 197121 4 Oct 9 23:04 greeting.txt
-rw-r--r-- 1 VISHNU 197121 53 Oct 9 21:58 greeting_BACKUP_1222.txt
-rw-r--r-- 1 VISHNU 197121 60 Oct 9 21:58 greeting_BASE_1222.txt
-rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_LOCAL_1222.txt
-rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_REMOTE_1222.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
*Sgit log --oneline
730c785 (HEAD -> master) Revert "Revert "sample""
36b67f4 Revert "sample"
f4f79c1 sample
  8f75ae (mybranch) file2 commit in branching
   Oea3a2 mergetool commit
 27407fc (mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
2806c04 greeting conflict final
2806c04 greeting conflict final
2807co greeting conflict in master
2875d70c greeting conflict in master
2875d70c greeting complict in master
 036562be 3 way merge Brailin greeting
21e9444 (greeting) greeting file in 3-way merge commit
00ecb13 greeting file commit
0ec038e file3 commit in branching
 a27d98f first
  /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git reset --soft HEAD~1
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ ls -1
total 7
total 7
-rw-r--r-- 1 VISHNU 197121 63 Oct 9 21:58 README.md
-rw-r--r-- 1 VISHNU 197121 0 Oct 9 16:45 file1.txt
-rw-r--r-- 1 VISHNU 197121 20 Oct 9 22:10 file2.txt
-rw-r--r-- 1 VISHNU 197121 0 Oct 9 21:58 file3.txt
-rw-r--r-- 1 VISHNU 197121 4 Oct 9 23:04 greeting.txt
-rw-r--r-- 1 VISHNU 197121 53 Oct 9 21:58 greeting_BACKUP_1222.txt
-rw-r--r-- 1 VISHNU 197121 60 Oct 9 21:58 greeting_BASE_1222.txt
-rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_LOCAL_1222.txt
-rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_REMOTE_1222.txt
  /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline
```

```
rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_REMOTE_1222.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline
36b67f4 (HEAD -> master) Revert "sample"
f4f79c1 sample
88f75ae (mybranch) file2 commit in branching
30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final
5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6fa1c70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git statuss
git: 'statuss' is not a git command. See 'git --help'.
The most similar command is
          status
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
          modified:
                        greeting.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ cat greeting.txt
hi
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git reset --hard HEAD~1
HEAD is now at f4f79c1 sample
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ 1s -1
total 7
 -rw-r--r-- 1 VISHNU 197121 63 Oct
                                           9 21:58 README.md
-rw-r--r-- 1 VISHNU 197121 0 Oct
                                           9 16:45 file1.txt
 -rw-r--r-- 1 VISHNU 197121 20 Oct
                                           9 22:10 file2.txt
-rw-r--r-- 1 VISHNU 197121 0 Oct
-rw-r--r-- 1 VISHNU 197121 4 Oct
-rw-r--r-- 1 VISHNU 197121 53 Oct
-rw-r--r-- 1 VISHNU 197121 60 Oct
                                           9 21:58 file3.txt
                                           9 23:04 greeting.txt
9 21:58 greeting_BACKUP_1222.txt
                                           9 21:58 greeting_BASE_1222.txt
-rw-r--r-- 1 VISHNU 197121 3 Oct
                                           9 21:58 greeting_LOCAL_1222.txt
 rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_REMOTE_1222.txt
```

```
-rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_LOCAL_1222.txt
-rw-r--r-- 1 VISHNU 197121 3 Oct 9 21:58 greeting_REMOTE_1222.txt

VTSHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)

$ git log --oneline
f4f79c1 (HEAD -> master) sample
88f75ae (mybranch) file2 commit in branching
30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
20b6c04 greeting conflict final
5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6falc70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first

VTSHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
nothing to commit, working tree clean
```

Git clean

```
MINGW64 ~/desktop/dit_katas (master)
$ 1s -R
README.md
           file2.txt
file3.txt
                           greeting_BACKUP_1222.txt greeting_REMOTE_1222.txt
                           greeting_BASE_1222.txt
                                                        mylib.c
ex.obj
file1.txt greeting.txt greeting_LOCAL_1222.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ touch mylib1.c
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git clean -n
Would remove mylib1.c
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add mylib1.c
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ touch ex.obj
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git clean -n
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ touch exm.obj
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git clean -n
Would remove exm.obj
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git clean -n -d
Would remove exm.obj
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: mylib1.c
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add exm.obj
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
                      exm.ob
```

```
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add exm.obj
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       new file: exm.obj
new file: mylib1.0
                   mylib1.c
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git clean -n
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git clean -n -d
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ 1s -R
. :
README.md file2.txt
                                      greeting_BASE_1222.txt
                                                                mylib1.c
           file3.txt
ex.obj
                                      greeting_LOCAL_1222.txt
exm.obj
                                      greeting_REMOTE_1222.txt
          greeting.txt
file1.txt greeting_BACKUP_1222.txt mylib.c
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
```

Git amend

```
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
 Changes to be committed:

(use "git restore --staged <file>..." to unstage)
             new file: exm.obj
new file: mylib1.c
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log -p
commit 56b9cabd6819010e6e59733d0962e8f7ca6df71e (HEAD -> master)
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sun Oct 10 14:15:27 2021 +0530
       added mylib
diff --git a/mylib.c b/mylib.c
index 896def9..a77a331 100644
--- a/mylib.c
+++ b/mylib.c
 aa -1 +1 aa
 commit 31179fdb3825143893307d5539e02ddc28b46116
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sun Oct 10 14:13:56 2021 +0530
       files added
diff --git a/ex.obj b/ex.obj
new file mode 100644
index 0000000..ca0e242
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ touch bar.txt
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git add bar.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git commit --amend
git commit --amend
[master ca20aae] this is amend added mylib
Date: Sun Oct 10 14:15:27 2021 +0530
4 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 bar.txt
create mode 100644 exm.obj
create mode 100644 mylib1.c
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log -p
commit ca20aae181a9154c8da99b7cbef83b55b188e309 (HEAD -> master)
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
Date: Sun Oct 10 14:15:27 2021 +0530
```

```
GU MINGW64 ~/desktop/git_katas (master
$ git commit --amend
[master ca20aae] this is amend added mylib
Date: Sun Oct 10 14:15:27 2021 +0530
4 files changed, 1 insertion(+), 1 deletion(-)
create mode 100644 bar.txt
create mode 100644 exm.obj
 create mode 100644 mylib1.c
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log -p
commit ca20aae181a9154c8da99b7cbef83b55b188e309 (HEAD -> master)
Author: vishnuracharla6 <vishnu.racharla@zemosolabs.com>
         Sun Oct 10 14:15:27 2021 +0530
Date:
     this is amend added mylib
diff --git a/bar.txt b/bar.txt
new file mode 100644
index 0000000..e69de29
diff --git a/exm.obj b/exm.obj
new file mode 100644
index 0000000..e69de29
diff --git a/mylib.c b/mylib.c
index 896def9..a77a331 100644
--- a/mylib.c
+++ b/mylib.c
@@ -1 +1 @@
diff --git a/mylib1.c b/mylib1.c
new file mode 100644
index 0000000..e69de29
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git status
On branch master
nothing to commit, working tree clean
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
```

Git squashing

```
$ cd desktop
/ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop
$ cd git_katas
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git log --oneline
ca20aae (HEAD -> master) this is amend added mylib
31179fd files added
f4f79c1 sample
88f75ae (mybranch) file2 commit in branching
30ea3a2 mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final 5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6fa1c70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master)
$ git rebase -i HEAD~4 error: invalid line 5: latest commit
You can fix this with 'git rebase --edit-todo' and then run 'git rebase --cont
ue'
Or you can abort the rebase with 'git rebase --abort'.
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git_katas (master|REBASE)
$ git log --oneline
30ea3a2 (HEAD) mergetool commit
27407fc (mergesort-impl) mergesort-impl commit
59dfada master mergesort-impl
2b06c04 greeting conflict final
5d1225b (merge-conflict-branch1) greeting conflict in merge-conflict
875d70c greeting conflict in master
6fa1c70 Merge branch 'greeting'
9d562be 3 way merge Readme commit
21e9444 (greeting) greeting file in 3-way merge commit
90ecb13 greeting file commit
9ec038e file3 commit in branching
a27d98f first
```

GitIgnore

```
-P4F8HGU MINGW64 ~/desktop/g1t-katas (my_branch)
$ touch foo.s
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ touch .gitignore
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ vi .gitignore
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch) $ git commit -a -m "commit the gitignore"
On branch my_branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
 VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git add .
warning: LF will be replaced by CRLF in .gitignore.
The file will have its original line endings in your working directory
 /ISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git commit -m "gitignore"

[my_branch f9c0400] gitignore

1 file changed, 1 insertion(+)

create mode 100644 .gitignore
```

```
1 file changed, 1 insertion(+)
 create mode 100644 .gitignore
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ vi file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git add .
warning: LF will be replaced by CRLF in file1.txt.
The file will have its original line endings in your working directory
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git commit -m "commit file1"
[my_branch 6a402dc] commit file1
 1 file changed, 1 insertion(+)
 create mode 100644 file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ vi .gitignore
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
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)
no changes added to commit (use "git add" and/or "git commit -a")
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ vi file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
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)
no changes added to commit (use "git add" and/or "git commit -a")
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ touch new_file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
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)
```

```
$ touch new_file1.txt
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
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)
no changes added to commit (use "git add" and/or "git commit -a")
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git rm --cached
fatal: No pathspec was given. Which files should I remove?
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git rm --cached file1.txt
rm 'file1.txt'
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
$ git status
On branch my_branch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
         deleted:
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)
VISHNU@DESKTOP-P4F8HGU MINGW64 ~/desktop/git-katas (my_branch)
```