

```

MINGW64/c/Users/k1e7l/gffir x + v
k1e7l@B00K-V2TI50AE9C MINGW64 ~
$ git init gline
Initialized empty Git repository in C:/Users/k1e7l/gline/.git/

k1e7l@B00K-V2TI50AE9C MINGW64 ~
$ cd gline

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (main)
$ echo 111 > f

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (main)
$ git add f

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (main)
$ git commit -m 1
[main (root-commit) 107717b] 1
1 file changed, 1 insertion(+)
create mode 100644 f

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (main)
$ git switch -c topic
Switched to a new branch 'topic'

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ echo aaa > g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ git add g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ git commit -m A
[topic 1de7fea] A
1 file changed, 1 insertion(+)
create mode 100644 g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ echo bbb >> g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ git commit -am B
[topic 7ee3c71] B
1 file changed, 1 insertion(+)

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ git log --all --graph --oneline
* 7ee3c71 (HEAD -> topic) B
* 1de7fea A
* 107717b (main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ git config --global alias.lgag1 'log --all -->'

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ git config --global alias.lgag1 'log --all --graph --oneline'

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ git lgag1
* 7ee3c71 (HEAD -> topic) B
* 1de7fea A
* 107717b (main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gline (topic)
$ cd ..

```

```

MINGW64/c/Users/k1e7l/gffir x + v
k1e7l@B00K-V2TI50AE9C MINGW64 ~
$ cp -r gline gffm

k1e7l@B00K-V2TI50AE9C MINGW64 ~
$ cd gffm

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git lgag1
* 7ee3c71 (HEAD -> topic) B
* 1de7fea A
* 107717b (main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ cd ..

k1e7l@B00K-V2TI50AE9C MINGW64 ~
$ cp -r gline gffm

k1e7l@B00K-V2TI50AE9C MINGW64 ~
$ cd gffm

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git lgag1
* 7ee3c71 (HEAD -> topic) B
* 1de7fea A
* 107717b (main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git switch main
Switched to branch 'main'

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git merge topic
Updating 107717b..7ee3c71
Fast-forward
 g | 2 ++
1 file changed, 2 insertions(+)
create mode 100644 g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (HEAD -> main, topic) B
* 1de7fea A
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (HEAD -> main, topic) B
* 1de7fea A
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git reset --hard 107717b
HEAD is now at 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (topic) B
* 1de7fea A
* 107717b (HEAD -> main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (topic) B
* 1de7fea A

```

```

MINGW64~/c/Users/k1e7l/gffm x + ~
k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git reset --hard 107717b
HEAD is now at 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (topic) B
* 1de7fea A
* 107717b (HEAD -> main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git merge topic --ff-only
Updating 107717b..7ee3c71
Fast-forward
 g | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (HEAD -> main, topic) B
* 1de7fea A
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git reset --hard 3d00e27
fatal: ambiguous argument '3d00e27': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (HEAD -> main, topic) B
* 1de7fea A
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (HEAD -> main, topic) B
* 1de7fea A
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git merge topic --no-ff
Already up to date.

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (HEAD -> main, topic) B
* 1de7fea A
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git merge --no-ff topic
Already up to date.

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git reset --hard
HEAD is now at 7ee3c71 B

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git reset --hard 107717b
HEAD is now at 107717b 1

```

```

MINGW64~/c/Users/k1e7l/gffm x + ~
$ git lgag1
* 7ee3c71 (topic) B
* 1de7fea A
* 107717b (HEAD -> main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (topic) B
* 1de7fea A
* 107717b (HEAD -> main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git merge topic --no-ff -m 'merge --no-ff'
Merge made by the 'ort' strategy.
 g | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 0b9cee8 (HEAD -> main) merge --no-ff
| \
| * 7ee3c71 (topic) B
| * 1de7fea A
| /
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git reset --hard 107717b
HEAD is now at 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 7ee3c71 (topic) B
* 1de7fea A
* 107717b (HEAD -> main) 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ echo 222 >> f

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git commit -am 2
[main 963db84] 2
 1 file changed, 1 insertion(+)

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 963db84 (HEAD -> main) 2
| * 7ee3c71 (topic) B
| * 1de7fea A
| /
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ ls
f gline/

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 963db84 (HEAD -> main) 2
| * 7ee3c71 (topic) B
| * 1de7fea A
| /
* 107717b 1

```

```
MINGW64:/c/Users/k1e7l/gffm x + v
$ git merge topic -m '3-awy merge'
Merge made by the 'ort' strategy.
 g | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 g

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 63b5d67 (HEAD -> main) 3-awy merge
| \
| * 7ee3c71 (topic) B
| * 1de7fea A
* | 963db84 2
|/
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git reset --hard 63b5d67
HEAD is now at 63b5d67 3-awy merge

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 63b5d67 (HEAD -> main) 3-awy merge
| \
| * 7ee3c71 (topic) B
| * 1de7fea A
* | 963db84 2
|/
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git merge topic -m msg
merge: -m - not something we can merge

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 63b5d67 (HEAD -> main) 3-awy merge
| \
| * 7ee3c71 (topic) B
| * 1de7fea A
* | 963db84 2
|/
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git merge --squash topic
Already up to date. (nothing to squash)

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git commit -m 'Squash merge 3AB'
On branch main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    gline/

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

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git lgag1
* 63b5d67 (HEAD -> main) 3-awy merge
| \
| * 7ee3c71 (topic) B
| * 1de7fea A
* | 963db84 2
|/
```

```
MINGW64:/c/Users/k1e7l/gffm x + v
k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ ls
f g gline/

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (main)
$ git switch topic
Switched to branch 'topic'

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git lgag1
* 63b5d67 (main) 3-awy merge
| \
| * 7ee3c71 (HEAD -> topic) B
| * 1de7fea A
* | 963db84 2
|/
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git log --oneline
7ee3c71 (HEAD -> topic) B
1de7fea A
107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ ls
f g gline/

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git lgag1
* 63b5d67 (main) 3-awy merge
| \
| * 7ee3c71 (HEAD -> topic) B
| * 1de7fea A
* | 963db84 2
|/
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git switch -S
error: unknown switch 'S'
usage: git switch [<options>] [<branch>]

-c, --create <branch> create and switch to a new branch
-C, --force-create <branch>
                        create/reset and switch to a branch
--guess                 second guess 'git switch <no-such-branch>'
--discard-changes       throw away local modifications
-q, --quiet             suppress progress reporting
--recurse-submodules[=<checkout>]
                        control recursive updating of submodules
--progress              force progress reporting
-m, --merge              perform a 3-way merge with the new branch
--conflict <style>       conflict style (merge, diff3, or zdiff3)
-d, --detach            detach HEAD at named commit
-t, --track[=(direct|inherit)]
                        set branch tracking configuration
-f, --force              force checkout (throw away local modifications)
--orphan <new-branch>   new unparented branch
--overwrite-ignore       update ignored files (default)
--ignore-other-worktrees
                        do not check if another worktree is holding the given ref
```

```

MINGW64~/c/Users/k1e7l/gffm  × + ▾

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git lgag1
* 63b5d67 (main) 3-awy merge
| \
| * 7ee3c71 (HEAD -> topic) B
| * 1de7fea A
* | 963db84 2
| /
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git reset --hard HEAD~
HEAD is now at 1de7fea A

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git lgag1
* 63b5d67 (main) 3-awy merge
| \
| * 7ee3c71 B
| * 1de7fea (HEAD -> topic) A
* | 963db84 2
| /
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ cat f
111

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ echo 333 >> f

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git status
On branch topic
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:   f

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

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

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git merge topic -m '3-way merge'
Already up to date.

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git status
On branch topic
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:   f

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

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

```

```

MINGW64~/c/Users/k1e7l/gffm  × + ▾

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git merge topic -m '3-way merge'
Already up to date.

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git status
On branch topic
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:   f

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

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

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$ git lgag1
* 63b5d67 (main) 3-awy merge
| \
| * 7ee3c71 B
| * 1de7fea (HEAD -> topic) A
* | 963db84 2
| /
* 107717b 1

k1e7l@B00K-V2TI50AE9C MINGW64 ~/gffm (topic)
$

```