```
🚸 MINGW64:/d/лаб 3/eay
 111@erroremelya MINGW64 /d/лаб 3
git config --global core.safecrlf true
 111@erroremelya MINGW64 /d/лаб 3
$ mkdir eay
$ cd eay
  111@erroremelya MINGW64 /d/лаб 3/eay
  touch first.py
  111@erroremelya MINGW64 /d/лаб 3/eay
$ touch second.py
 111@erroremelya MINGW64 /d/лаб 3/eay
touch third.py
 111@erroremelya MINGW64 /d/лаб 3/eay
Illieer of emerya міможоч /u/лао з/eay
$ git init
Initialized empty Git repository in D:/Лаб 3/eay/.git/
                  elya MINGW64 /d/лаб 3/eay (master)
$ git add first.py
1111@erroremelya MINGW64 /d/na6 3/eay (master)
$ git commit -m "first emptly"
[master (root-commit) 0e156ca] first emptly
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 first.py
 111@erroremelya MINGW64 /d/лаб 3/eay (master)
 .111@erroremelya MINGW64 /d/лаб 3/eay (master)
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)
 L111@erroremelya MINGW64 /d/лаб 3/eay (master)
$ git add second.py
1111@erroremelya MINGW64 /d/лаб 3/eay (master)
$ git add third.py
1111@erroremelya MINGW64 /d/na6 3/eay (master)
$ git commit -m "other files"
[master b701d16] other files
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 second.py
create mode 100644 third.py
  111@erroremelya MINGW64 /d/лаб 3/eay (master)
$ git status
on branch master
nothing to commit, working tree clean
 111@erroremelya MINGW64 /d/лаб 3/eay (master)
                       м MINGW64 /d/лаб 3/eay (master)
  git add first.py
1111@erroremelya MINGW64 /d/na6 3/eay (master)
$ git commit -m "Version with line of code"
[master 5ca285e] Version with line of code
1 file changed, 1 insertion(+)
  111@erroremelya MINGW64 /d/лаб 3/eay (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")
  111@erroremelya MINGW64 /d/лаб 3/eay (master)
```

```
filled of emergy Mindres (a) master)

$ git log
commit 70albaabfe82119712c6772ea838f423c953d4c3 (HEAD -> master)
Author: Artell1 <artem.emelianov.2004@gmail.com>
Date: Sat Sep 3 15:44:17 2022 +0700
         new version of first
   ommit 5ca285e972896a365788a5f68d4bfaceb4080336
Author: Artell1 <artem.emelianov.2004@gmail.com>
Date: Sat Sep 3 15:42:07 2022 +0700
          Version with line of code
commit b701d1666f4467c8b02b1dea3adb0aaafaa57802
Author: Arte111 <artem.emelianov.2004@gmail.com>
Date: Sat Sep 3 15:38:36 2022 +0700
         other files
commit 0e156ca9225dd35728d225605458e37696cdd193
Author: Arte111 <artem.emelianov.2004@gmail.com>
Date: Sat Sep 3 15:36:18 2022 +0700
          first emptly
1111@erroremelya MINGw64 /d/na6 3/eay (master)
$ git log --pretty=oneline
70albaabfe82119712c6772ea838f423c953d4c3 (HEAD -> master) new version of first
5ca285e972896a365788a5f68d4bfaceb4080336 Version with line of code
b701d1666f4467c8b02b1dea3adb0aaafaa57802 other files
0e156ca9225dd35728d225605458e37696cdd193 first emptly
    111@erroremelya MINGW64 /d/na6 3/eay (master)
git log --pretty=format:"%h %ad | %s%d [%an]" --graph --date=short
70a1baa 2022-09-03 | new version of first (HEAD -> master) [Artel11]
5ca285e 2022-09-03 | Version with line of code [Artel11]
b701d16 2022-09-03 | other files [Artel11]
0e156ca 2022-09-03 | first emptly [Artel11]
   111@erroremelya MINGW64 /d/лаб 3/eay (master)
    lil@erroremelya MINGW64 /d/na6 3/eay (master)
git log --pretty=format:"%h %ad | %s%d [%an]" --graph --date=short
70albaa 2022-09-03 | new version of first (HEAD -> master) [Artell1]
5ca285e 2022-09-03 | Version with line of code [Artell1]
b70ld16 2022-09-03 | other files [Artell1]
0e156ca 2022-09-03 | first emptly [Artel11]
    lll@erroremelya MINGW64 /d/лаб <mark>3/eay (master)</mark>
git config --global alias.st status
                rroremelya MINGW64 /d/лаб 3/eay (master)
$ git st
on branch master
nothing to commit, working tree clean
  .111@erroremelya MINGW64 /<mark>d/лаб 3/eay (master)</mark>
i git config --global alias.hist 'log --pretty=format:"%h %ad | %s%d [%an]" --graph --date=short'
   111@erroremelya MINGW64 /d/лаб 3/eay (master)
    git hist

70albaa 2022-09-03 | new version of first (HEAD -> master) [Artel11]

5ca285e 2022-09-03 | Version with line of code [Artel11]

b701d16 2022-09-03 | other files [Artel11]

0e156ca 2022-09-03 | first emptly [Artel11]
```

```
melya MINGW64 /d/лаб 3/eay (master)
  git hist
e396ba4 2022-09-03 | Version with third line (HEAD -> master) [Artel11]
70a1baa 2022-09-03 | new version of first [Artel11]
5ca285e 2022-09-03 | Version with line of code [Artel11]
b701d16 2022-09-03 | other files [Artel11]
0e156ca 2022-09-03 | first emptly [Artel11]
1111@erroremelya MINGW64 /d/лаб 3/eay (master)
$ git checkout 5ca285e
Note: switching to '5ca285e'.
You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.
If you want to create a new branch to retain commits you create, you may do so (now or later) by using -c with the switch command. Example:
   git switch -c <new-branch-name>
Or undo this operation with:
   git switch -
Turn off this advice by setting config variable advice.detachedHead to false
HEAD is now at 5ca285e Version with line of code
1111@erroremelya MINGw64 /d/na6 3/eay ((5ca285e...))
$ git checkout master
Previous HEAD position was 5ca285e Version with line of code
Switched to branch 'master'
$ cat first.py
first line
second line
third line
     1@erroremelya MINGW64 /d/лаб 3/eay (master)
$ git checkout master
Previous HEAD position was 5ca285e Version with line of code
Switched to branch 'master'
  111@erroremelya MINGW64 /d/ла6 3/eay (master)
$ cat first.py
first line
 second line
third line
                    melya MINGW64 /d/лаб 3/eay (master)
  git hist
e396ba4 2022-09-03 | Version with third line (HEAD -> master) [Artel11]
70albaa 2022-09-03 | new version of first [Artel11]
5ca285e 2022-09-03 | Version with line of code [Artel11]
b701d16 2022-09-03 | other files [Artel11]
0e156ca 2022-09-03 | first emptly [Artel11]
   git tag v0.3
            rroremelya MINGW64 /d/лаб 3/eay (master)
   git hist
   916 FISC

e396ba4 2022-09-03 | Version with third line (HEAD -> master, tag: v0.3) [Artel11]

70albaa 2022-09-03 | new version of first [Artel11]

5ca285e 2022-09-03 | Version with line of code [Artel11]

b701d16 2022-09-03 | other files [Artel11]

0e156ca 2022-09-03 | first emptly [Artel11]
  111@erroremelya MINGW64 /d/лаб 3/eay (master)
```

```
$ cat first.py
first line
second line
third line
              oremelya MINGW64 /d/Лаб 3/eay (master)
Illierroremeiya Minkw64 /d/lato s/eay (master)

§ git st

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: first ny
 no changes added to commit (use "git add" and/or "git commit -a")
ilil@erroremelya MINGW64 /d/Лаб 3/eay (master)
$ git checkout first.py
Updated 1 path from the index
On branch master nothing to commit, working tree clean
1111@erroremelya MINGW64 /d/Лаб 3/eay (master)
$ cat first.py
first line
 second line
third line
11111@erroremelya MINGW64 /d/Лаб 3/eay (master)
llll@erroremelya MINGW64 /d/Лаб 3/eay (master)
$ cat first.py
first line
second line
third line
              oremelya MINGW64 /d/Лаб 3/eay (master)
 $ git add first.py
1111@erroremelya MINGW64 /d/Ja6 3/eay (master)
$ git st
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
modified: first.py
1111@erroremelya MINGW64 /d/∏a6 3/eay (master)
$ git reset HEAD first.py
Unstaged changes after reset:
              first.py
1111@erroremelya MINGW64 /d/Лаб 3/eay (master)
$ git checkout first.py
Updated 1 path from the index
               oremelya MINGW64 /d/Лаб 3/eay (master)
$ cat first.py
first line
 second line
third line
1111@erroremelya MINGW64 /d/Лаб 3/eay (master)
```

```
$ cat first.py
first line
  second line
 third line
  mistake
                             remelya MINGW64 /d/Лаб 3/eay (master)
 $ git add first.py
     111@erroremelya MINGW64 /d/Лаб 3/eay (master)
1111@erroremelya MINGW64 /d/∏a6 3/eay (master)
$ git commit -m "with mistake"
[master 82857dc] with mistake
1 file changed, 3 insertions(+), 1 deletion(-)
    111@erroremelya MINGW64 /d/Лa6 3/eay (master)
git hist
82857dc 2022-09-03 | with mistake (HEAD -> master) [Artel11]
767da1fd 2022-09-03 | Revert "mistake in code" [Artel11]
766aaee 2022-09-03 | Wersion with third line (tag: v0.3) [Artel11]
70a1baa 2022-09-03 | Version with third line (tag: v0.3) [Artel11]
70a1baa 2022-09-03 | Version with line of code [Artel11]
75ca285e 2022-09-03 | Other files [Artel11]
70e156ca 2022-09-03 | first emptly [Artel11]
    111@erroremelya MINGW64 /d/Ma6 3/eay (master)
g git revert HEAD --no-edit
[master 5d7dcOc] Revert "with mistake"
Date: Sat Sep 3 16:22:51 2022 +0700
1 file changed, 1 insertion(+), 3 deletions(-)
                               emelya MINGW64 /d/Лаб 3/eay (master)
    111@erroremelya MINGW64 /d/Ja6 3/eay (master)
i git hist
5d7dc0c 2022-09-03 | Revert "with mistake" (HEAD -> master) [Artell1]
52887dc 2022-09-03 | with mistake [Artell1]
67dalfd 2022-09-03 | Revert "mistake in code" [Artell1]
7a6aaee 2022-09-03 | wistake in code [Artell1]
6396ba4 2022-09-03 | Version with third line (tag: v0.3) [Artell1]
70albaa 2022-09-03 | version of first [Artell1]
55ca285e 2022-09-03 | Version with line of code [Artel11]
7b701d16 2022-09-03 | other files [Artel11]
7b6156ca 2022-09-03 | first emptly [Artel11]
 1111@erroremelya MINGW64 /d/Лаб 3/eay (master)
$ |
 1111@erroremelya MINGW64 /d/Na6 3/eay (master)
$ git checkout -b the_first_branch
Switched to a new branch 'the_first_branch'
                       roremelya MINGW64 /d/Лаб 3/eay (the_first_branch)
 S git st
On branch the_first_branch
nothing to commit, working tree clean
```

ya MINGW64 /d/Лаб 3/eay (master)

```
🚸 MINGW64:/d/Лаб 3/eay
                                                                                                                                                                                                                                                                                               П
                                                                                                                                                                                                                                                                                                              ×
  lill@erroremelya MINGW64 /d/Ja6 3/eay (the_first_branch)
git commit -m "with cfg file"
[the_first_branch 8888bdd] with cfg file
1 file changed, 3 insertions(+), 1 deletion(-)
    lll@erroremelya MINGW64 /d/Лаб 3/eay (the_first_branch) git hist --all
   git hist --all
8888bdd 2022-09-03 | with cfg file (HEAD -> the_first_branch) [Artel11]
75cf7cb 2022-09-03 | with cfg file [Artel11]
5d7dc0c 2022-09-03 | Revert "with mistake" (master) [Artel11]
82857dc 2022-09-03 | Revert "mistake [Artel11]
67da1fd 2022-09-03 | Revert "mistake in code" [Artel11]
7a6aaee 2022-09-03 | Version with third line (tag: v0.3) [Artel11]
70a1baa 2022-09-03 | Version with third line (tag: v0.3) [Artel11]
5ca285e 2022-09-03 | Version with line of code [Artel11]
b701d16 2022-09-03 | other files [Artel11]
0e156ca 2022-09-03 | first emptly [Artel11]
   111@erroremelya MINGW64 /d/Лаб 3/eay (the_first_branch)
cat fisrt
  cat: fisrt: No such file or directory
   111@erroremelya MINGW64 /d/Лаб 3/eay (the_first_branch)
$ cat fisrt.py
cat: fisrt.py: No such file or directory
                    oremelya MINGW64 /d/Лаб 3/eay (the_first_branch)
$ cat first.py
first line
  second line
third line
  works with cfg
                                  /a MINGW64 /<mark>d/Лаб 3/eay (the_first_branch)</mark>
$ git checkout master
Switched to branch 'master'
                    oremelya MINGW64 /d/Лаб 3/eay (master)
$ cat first.py
first line
 second line
 third line
                  roremelya MINGW64 /d/Лаб 3/eay (master)
$ |
                          melva MINGW64 /d/Лаб 3/eav (the first branch
$ git checkout master
Switched to branch 'master'
                   oremelya MINGW64 /d/Лаб 3/eay (master)
 $ cat first.py
   irst line
  second line
1111@erroremelya MINGW64 /d/Ла6 3/eay (master)
$ touch README
 1111@erroremelya MINGW64 /d/Лаб 3/eay (master)
$ git add README
  1111@erroremelya MINGW64 /d/Ja6 3/eay (master)
$ git commit -m "README"
[master b01f55a] README
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README
   lll@erroremelya MINGW64 /d/Na6 3/eay (master)
git hist --all
bb1f55a 2022-09-03 | README (HEAD -> master) [Artel11]
* 8888bdd 2022-09-03 | with cfg file (the_first_branch) [Artel11]
* 75cf7cb 2022-09-03 | with cfg file [Artel11]
    /
Sd7dCoc 2022-09-03 | Revert "with mistake" [Artel11]
82857dc 2022-09-03 | with mistake [Artel11]
67dalfd 2022-09-03 | Revert "mistake in code" [Artel11]
7a6aaee 2022-09-03 | mistake in code [Artel11]
e396ba4 2022-09-03 | Version with third line (tag: v0.3) [Artel11]
70albaa 2022-09-03 | new version of first [Artel11]
55ca285e 2022-09-03 | Version with line of code [Artel11]
b701d16 2022-09-03 | other files [Artel11]
0e156ca 2022-09-03 | first emptly [Artel11]
       1@erroremelya MINGW64 /d/Лаб 3/eay (master)
```

```
lil@erroremelya MINGW64 /d/Ла6 3/eay (the_first_branch|MERGING)
git hist --all
    # 8888bdd 2022-09-03 | README (master) [Arte111]

# 8888bdd 2022-09-03 | with cfg file (HEAD -> the_first_branch) [Arte111]

# 75cf7cb 2022-09-03 | with cfg file [Arte111]
   /
Sd7dc0c 2022-09-03 | Revert "with mistake" [Artel11]
82857dc 2022-09-03 | with mistake [Artel11]
67dalfd 2022-09-03 | Revert "mistake in code" [Artel11]
7a6aaee 2022-09-03 | mistake in code [Artel11]
e396ba4 2022-09-03 | Version with third line (tag: v0.3) [Artel11]
70albaa 2022-09-03 | version of first [Artel11]
5ca285e 2022-09-03 | Version with line of code [Artel11]
b701d16 2022-09-03 | other files [Artel11]
0e156ca 2022-09-03 | first emptly [Artel11]
 S git merge master
fatal: You have not concluded your merge (MERGE_HEAD exists).
  111@erroremelya MINGW64 /d/Лаб 3/eay (the_first_branch|MERGING)
 llli@erroremelya MINGW64 /d/Jab 3/eay (the_fir
$ git st
On branch the_first_branch
All conflicts fixed but you are still merging.
(use "git commit" to conclude merge)
Changes to be committed:
1111@erroreme]ya MINGW64 /<mark>d/Лаб 3/eay (the_first_branch</mark>|MERGING)
$ git commit -m "README too"
[the_first_branch d8cd58d] README too
  lll@erroremelya MINGW64 /d/Ла6 3/eay (the_first_branch) git hist --all
         d8cd58d 2022-09-03 | README too (HEAD -> the_first_branch) [Arte111]
    * b01f55a 2022-09-03 | README (master) [Arte111]
| 8888bdd 2022-09-03 | with cfg file [Arte111]
| 75cf7cb 2022-09-03 | with cfg file [Arte111]
   illl@erroremelya MINGW64 /d/Лаб 3/eay (the_second_branch)
3 git hist --all
   126d844 2022-09-03 | change third file (HEAD -> the_second_branch) [Artel11]
6eclc86 2022-09-03 | second version [Artel11]
* 805fd75 2022-09-03 | add third file (master) [Artel11]
* 63d0cb2 2022-09-03 | first version [Artel11]
    e1a9edb 2022-09-03 | add second [Arte111]

* d8cd58d 2022-09-03 | README too (the_first_branch) [Arte111]
        * b01f55a 2022-09-03 | README [Arte111]
    |
* 8888bdd 2022-09-03 | with cfg file [Arte111]
* 75cf7cb 2022-09-03 | with cfg file [Arte111]
   5d7dcOc 2022-09-03 | Revert "with mistake" [Arte111]
82857dc 2022-09-03 | with mistake [Arte111]
67da1fd 2022-09-03 | Revert "mistake in code" [Arte111]
7a6aaee 2022-09-03 | mistake in code [Arte111]
e336ba4 2022-09-03 | Version with third line (tag: v0.3) [Arte111]
70a1baa 2022-09-03 | new version of first [Arte111]
5ca285e 2022-09-03 | Version with line of code [Arte111]
b701d16 2022-09-03 | other files [Arte111]
0e156ca 2022-09-03 | first emptly [Arte111]
```

```
* b01f55a 2022-09-03 | README [Arte111]
      * 8888bdd 2022-09-03 | with cfg file [Arte111]
* 75cf7cb 2022-09-03 | with cfg file [Arte111]
     111@erroremelya MINGW64 /d/Лаб 3/eay (the_second_branch) git checkout master witched to branch 'master'
   cat first.py
first line
 second line
  llillerroremelya MINGW64 /d/Ja6 3/eay (master)
$ git checkout the_second_branch
Switched to branch 'the_second_branch'
    111@erroremelya MINGW64 /d/Лаб 3/eay (the_second_branch)
 $ cat first.py
first line
 second line
                           remelya MINGW64 /d/Лаб 3/eay (the_second_branch)
S git merge master
Auto-merging second.py
CONFLICT (content): Merge conflict in second.py
Auto-merging third.py
CONFLICT (content): Merge conflict in third.py
Automatic merge failed; fix conflicts and then commit the result.
  D:\/la6 3\eay\first.p... - \ X S 
                                                                w Goto
   File Edit Selection Find View Goto

Eile Edit Selection Find View Goto Tools Project Preferences

Tools Project Preferences Help le Edit Selection Find View Goto Tools Project Preferences
   Tools Project Preferences Help
                                                                                                                                                                                                                                                  + ▼ I ▶ third.py
                                                                                                   _ ◀ ▶ second.py
    ∢ ► first.py
                                                                                                                                                                                                                                                                 1 <<<<< HEAD
2 probobly here another code
3 ======
4 say that here code
                                                                                                         1 <<<<<< HEAD
           1 first line
                                                                                                               2 second version of this code
            3 second line
                                                                                                              4 first version of this code
                                                                                                          5 >>>>> master
                                                                                                                                                                                                                                                                      5 >>>>> master
            5 third line
```

```
$ git merge master
 Auto-merging second.py
CONFLICT (content): Merge conflict in second.py
 Auto-merging third.py
CONFLICT (content): Merge conflict in third.py
Automatic merge failed; fix conflicts and then commit the result.
    111@erroremelya MINGW64 /d/Лаб 3/eay (the_second_branch|MERGING)
$ git add .
  llll@erroremelya MINGW64 /d/Лаб 3/eay (the_second_branch|MERGING)
g git commit -m "fixed conflict"
[the_second_branch 82c9151] fixed conflict
 1111@erroremelya MINGW64 /d/Ja6 3/eay (the_second_branch)
$ git hist --all
* 82c9151 2022-09-03 | fixed conflict (HEAD -> the_second_branch) [Artel11]
         805fd75 2022-09-03 | add third file (master) [Artel11]
63d0cb2 2022-09-03 | first version [Artel11]
126d844 2022-09-03 | change third file [Artel11]
6eclc86 2022-09-03 | second version [Artel11]
     e1a9edb 2022-09-03 | add second [Arte111]
* d8cd58d 2022-09-03 | README too (the_first_branch) [Arte111]
           * b01f55a 2022-09-03 | README [Artel11]
      * 8888bdd 2022-09-03 | with cfg file [Arte111]
* 75cf7cb 2022-09-03 | with cfg file [Arte111]
    | Sd7dcOc 2022-09-03 | Revert "with mistake" [Artel11] |
82857dc 2022-09-03 | with mistake [Artel11] |
67dalfd 2022-09-03 | Revert "mistake in code" [Artel11] |
7a6aaee 2022-09-03 | mistake in code [Artel11] |
8396ba4 2022-09-03 | Version with third line (tag: v0.3) [Artel11] |
70albaa 2022-09-03 | new version of first [Artel11] |
5ca285e 2022-09-03 | Version with line of code [Artel11] |
b701d16 2022-09-03 | other files [Artel11] |
0e156ca 2022-09-03 | first emptly [Artel11]
       11@erroremelya MINGW64 /d/Лаб 3/eay (the_second_branch)

♦ MINGW64:/d/Лаб 3/eay

                                                                                                                                                                                                                                                                                                                                                              ×
   111@erroremelya MINGW64 /d/Лаб 3
  llll@erroremelya MINGW64 /d/Лаб 3/eay (master)
$ git init
 Reinitialized existing Git repository in D:/Лаб 3/eay/.git/
 $ git remote -V
error: unknown switch `V'
eror: unknown switch 'V'

usage: git remote [-v | --verbose]

or: git remote add [-t <branch>] [-m <master>] [-f] [--tags | --no-tags] [--mirror=<fetch|push>] <name> <url>
or: git remote rename [--[no-]progress] <old> <new>
or: git remote renove <name>
or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
or: git remote [-v | --verbose] show [-n] <name>
or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)...]
or: git remote set-branches [--add] <name> <branch>...
or: git remote get-url [--push] [--all] <name>
or: git remote set-url [--push] (-name> <branch>...
or: git remote set-url [--push] (-ame> <newurl> <br/>or: git remote set-url --delete <name> <url>

           -v, --verbose
                                                                   be verbose; must be placed before a subcommand
 $ git remote -v
 shared ../repo.git (fetch)
shared ../repo.git (push)
 1111@erroremelya MINGW64 /d/<mark>Лаб 3/eay (master)</mark>
$ git remote add origin https://github.com/Arte111/-3.git|
1111@erroremelya MINGM64 /d/Ja6 3/eay (master)
$ git push origin master
Enumerating objects: 35, done.
Counting objects: 100% (35/35), done.
Delta compression using up to 12 threads
Compressing objects: 100% (25/25), done.
Writing objects: 100% (35/35), 3.25 KiB | 1.08 MiB/s, done.
Total 35 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), done.
To https://github.com/Artel11/-3.git
* Inew branch!

* master -> master
                                                       master -> master
```