

1. Создание локального репозитория в текущей папке.

```
MINGW64:/d/Учебка/ПиОИВИС/Лабы/3/LABA3
Maxim@DESKTOP-60CF4M5 MINGW64 ~
$ cd "D:\Учебка\ПиОИВИС\Лабы\3"

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3
$ mkdir LABA3

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3
$ cd LABA3

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3
$ git init
Initialized empty Git repository in D:/Учебка/ПиОИВИС/Лабы/3/LABA3/.git/

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ |
```

2. Просмотр статуса текущего репозитория.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git status
On branch master

No commits yet

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

3. Ветка в Git — это набор коммитов, расположенных в хронологическом порядке. Основная ветка чаще всего называется master(main), она появляется при инициализации репозитория и считается главной веткой проекта. Дополнительные ветки используются для создания нового функционала и исправления ошибок.

4. Добавление файла в контекст, который будет коммититься.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ touch Hello.html
```

5. Создание коммита на основе текущего контекста и указание комментария.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git add Hello.html

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git commit -m "Cteated html file"
[master (root-commit) 87f8cdc] Cteated html file
1 file changed, 3 insertions(+)
create mode 100644 Hello.html
```

6. Создание коммита, включающего изменения всех наблюдаемых файлов, и указание для него комментария.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git add .

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git commit -m "Committed all files"
[master 701383f] Committed all files
1 file changed, 2 insertions(+)
```

7. Просмотр лога коммитов.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git log
commit 701383fa989930e0c933fc81c9cbcd9b0178483d (HEAD -> master)
Author: zezmax <zezmaxb@gmail.com>
Date: Sun Oct 20 15:37:15 2024 +0300

    Committed all files

commit 87f8cdcefb441909dbe6de270fffee6d350240df
Author: zezmax <zezmaxb@gmail.com>
Date: Sun Oct 20 15:30:04 2024 +0300

    Cteated html file
```

8. Просмотр информации о текущих настройках.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=D:/Apps/Git/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.sylinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
user.name=zezmax
user.email=zezmaxb@gmail.com
core.editor="D:\Apps\VisualCode\Microsoft VS Code\bin\code" --wait
core.autocrlf=true
core.safecrlf=warn
init.defaultbrench=main
gui.recentrepo=D:/Учебка/ПиОИВИС/Git L/ghowto/repositories/work
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.sylinks=false
core.ignorecase=true
```

9. Удаление файла из контекста.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git rm Hello.html
rm 'Hello.html'
```

10. Просмотр изменений в файле по сравнению с прошлым коммитом

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git show HEAD
commit c4304f79b944b06e3441af05522f539c14b526f9 (HEAD -> master)
Author: Maksim <zezmaxb@gmail.com>
Date: Mon Oct 21 18:29:48 2024 +0300

    added 3 !

diff --git a/Hello.html b/Hello.html
index 5abe8db..fd9b6ef 100644
--- a/Hello.html
+++ b/Hello.html
@@ -3,6 +3,6 @@
     <h1>Hello, world!</h1>
   </head>
   <body>
-     Hello, everyone!
+     Hello, everyone!!!
   </body>
 </html>
\ No newline at end of file
```

11. Удаление изменений относительно последнего коммита из файла.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git log --pretty=format:"%h %ad | %s%d [%an]" --date=short
701383f 2024-10-20 | Committed all files (HEAD -> master) [zezmax]
87f8cdc 2024-10-20 | Cteated html file [zezmax]

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git reset --hard HEAD
HEAD is now at 701383f Committed all files
```

12.Добавление в контекст коммита все изменённые и созданный файлы.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ touch hi.txt

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (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)
        modified:   Hello.html

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

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

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git add .

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git commit -m "Created txt file and edited html file"
[master 6820879] Created txt file and edited html file
2 files changed, 3 insertions(+)
create mode 100644 hi.txt
```

13.Изменение локальных/глобальных настроек.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git config --global user.name "Maksim"

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git config user.name
Maksim

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git config --global user.email "zezmaxb@gmail.com"

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git config user.email
zezmaxb@gmail.com
```

14. Изменение имени пользователя.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git config --global user.name "Maksim"

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git config user.name
Maksim
```

15.Просмотр существующих веток.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git branch
* master
```

16. Создание новой ветки.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git branch 1
```

17. Переключение на другую ветку.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git switch 1
Switched to branch '1'
```

18.Создание новой ветки и моментальное переключению на неё.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git switch -c Second
Switched to a new branch 'Second'
```

19.Удаление ветки.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git branch -d 1
Deleted branch 1 (was 6820879).
```

20. Слияние текущей ветки с другой.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (Second)
$ git merge master
Already up to date.
```

21. Создание конфликта

Конфликт при обновлении репозитория может появиться, если в двух ветках репозитория была изменена одна и та же часть какого-то файла.

```

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git add Hello.html

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git commit
[master d3eb8d7] creating conflict
1 file changed, 1 insertion(+)

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git switch Second
Switched to branch 'Second'

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (Second)
$ git add Hello.html

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (Second)
$ git commit
[Second b1429af] 999
1 file changed, 1 insertion(+)

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (Second)
$ git merge master
Auto-merging Hello.html
CONFLICT (content): Merge conflict in Hello.html
Automatic merge failed; fix conflicts and then commit the result.

```

22.Определение в каких файлах конфликт.

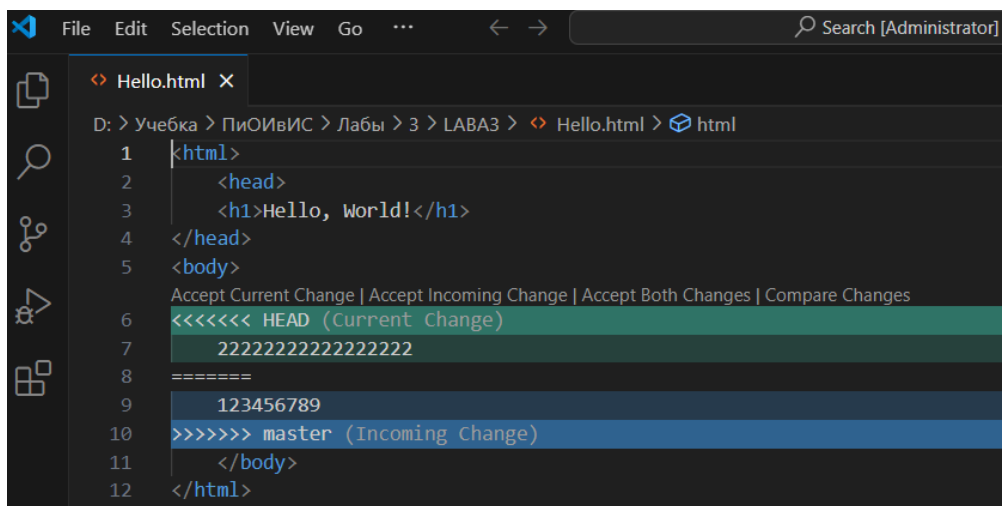
```

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (Second|MERGING)
$ git status
On branch Second
You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

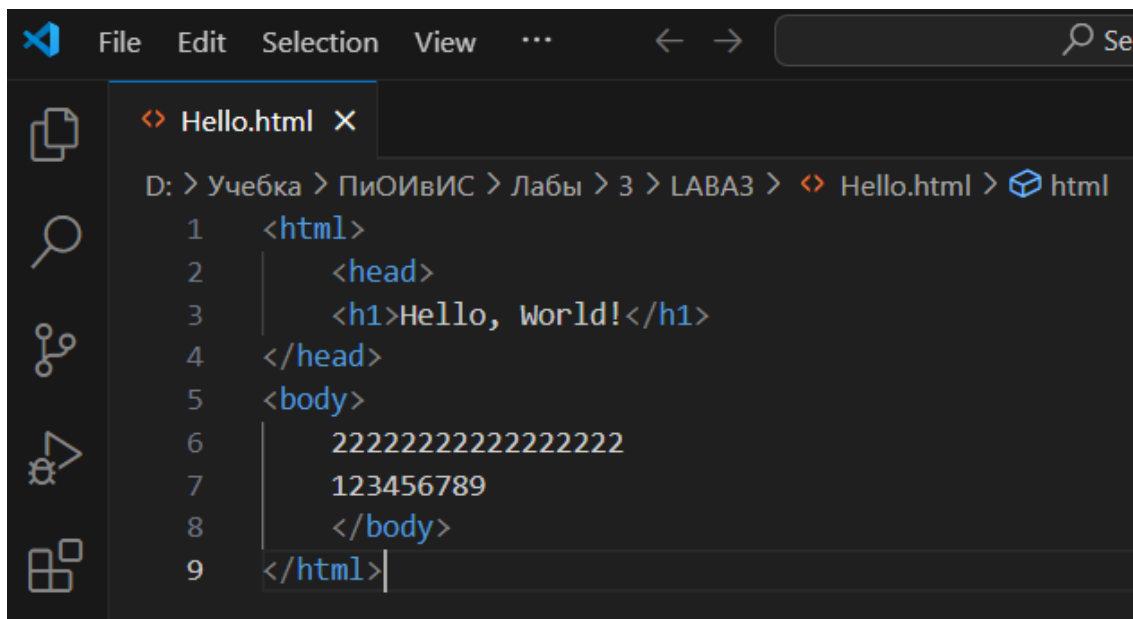
Unmerged paths:
  (use "git add <file>..." to mark resolution)
    both modified:   Hello.html

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

```



23. Устранение конфликта



The screenshot shows a code editor with a dark theme. The top menu bar includes 'File', 'Edit', 'Selection', 'View', and a search icon. The left sidebar has icons for Explorer, Search, Source Control, Run and Debug, and Extensions. The main editor area shows a file named 'Hello.html' with the following content:

```
D: > Учебка > ПиОИВИС > Лабы > 3 > LABA3 > < Hello.html > html
1  <html>
2      <head>
3      <h1>Hello, World!</h1>
4  </head>
5  <body>
6      222222222222222222
7      123456789
8  </body>
9  </html>
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (Second|MERGING)
$ git add Hello.html

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (Second|MERGING)
$ git commit
[Second c88fd41] Resolved merge conflict

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (Second)
$ git status
On branch Second
nothing to commit, working tree clean

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (Second)
$ git log --all --graph --pretty=format:"%h %ad | %s%d [%an]" --date=short
*   c88fd41 2024-10-21 | Resolved merge conflict (HEAD -> Second) [Maksim]
| \
|  * d3eb8d7 2024-10-21 | creating conflict (master) [Maksim]
|  * b1429af 2024-10-21 | 999 [Maksim]
| /
* 6820879 2024-10-20 | Created txt file and edited html file [zezmax]
* 701383f 2024-10-20 | Committed all files [zezmax]
* 87f8cdc 2024-10-20 | Cteated html file [zezmax]
```

24.Переключение на указанный коммит.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (Second)
$ git log --all --graph --pretty=format:"%h %ad | %s%d [%an]" --date=short
*   c88fd41 2024-10-21 | Resolved merge conflict (HEAD -> Second) [Maksim]
| \
|  * d3eb8d7 2024-10-21 | creating conflict (master) [Maksim]
* | b1429af 2024-10-21 | 999 [Maksim]
| /
* 6820879 2024-10-20 | Created txt file and edited html file [zezmax]
* 701383f 2024-10-20 | Committed all files [zezmax]
* 87f8cdc 2024-10-20 | Cteated html file [zezmax]
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (Second)
$ git checkout 6820879
Note: switching to '6820879'.
```

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 6820879 Created txt file and edited html file

25.Резаирование текущей ветки.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (Second)
$ git add hello.html

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (Second)
$ git commit
[Second c6c5246] new sentence
1 file changed, 1 insertion(+)

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (Second)
$ git switch master
Switched to branch 'master'

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git rebase Second
Successfully rebased and updated refs/heads/master.
```


26. Устранение конфликта во время ребазирования.

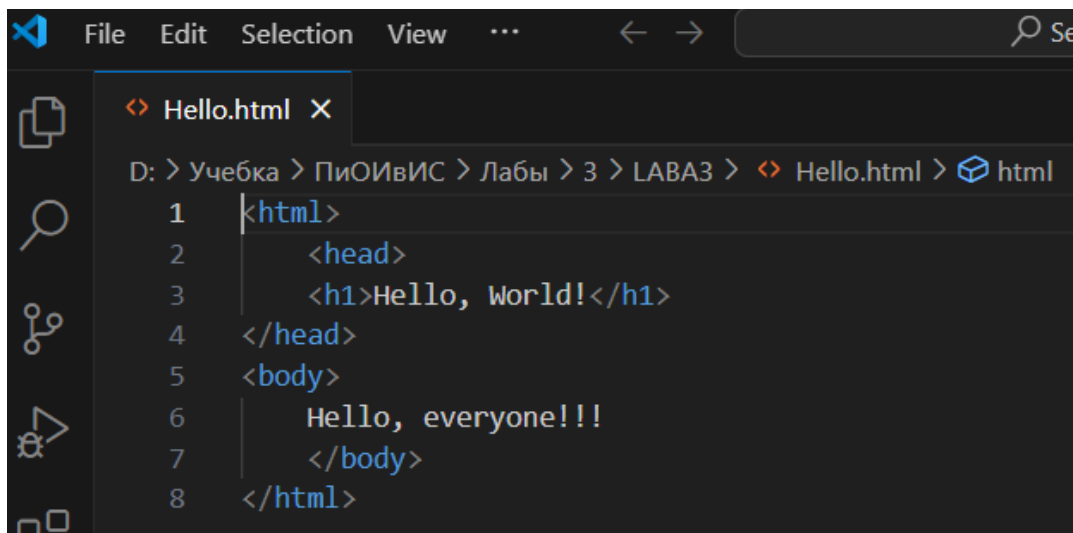
```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git rebase Second
Auto-merging Hello.html
CONFLICT (content): Merge conflict in Hello.html
error: could not apply 984eb10... a lot of !!!!!
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
hint: Disable this message with "git config advice.mergeConflict false"
Could not apply 984eb10... a lot of !!!!!

Maxim@DESKTOP-60CF4M5 MINGW64 /d/Учебка/ПиОИВИС/Лабы/3/LABA3 (master|REBASE 1/1)
$ git status
interactive rebase in progress; onto 1e28db9
Last command done (1 command done):
  pick 984eb10 a lot of !!!!!
No commands remaining.
You are currently rebasing branch 'master' on '1e28db9'.
  (fix conflicts and then run "git rebase --continue")
  (use "git rebase --skip" to skip this patch)
  (use "git rebase --abort" to check out the original branch)

Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
    both modified:   Hello.html

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

```
<html>
<head>
<h1>Hello, World!</h1>
</head>
<body>
Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes
<<<<<< HEAD (Current Change)
Hello, everyone!!!
=====
Hello, everyone!!!!!!
>>>>>> 984eb10 (a lot of !!!!!) (Incoming Change)
</body>
</html>
```



```
<html>
  <head>
    <h1>Hello, World!</h1>
  </head>
  <body>
    Hello, everyone!!!
  </body>
</html>
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master|REBASE 1/1)
$ git add Hello.html
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master|REBASE 1/1)
$ git rebase --continue
Successfully rebased and updated refs/heads/master.
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git commit
On branch master
nothing to commit, working tree clean
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git log --pretty=format:"%h %ad | %s%d [%an]" --date=short
1e28db9 2024-10-21 | 3 !!! (HEAD -> master, Second) [Maksim]
c6c5246 2024-10-21 | new sentence [Maksim]
6820879 2024-10-20 | Created txt file and edited html file [zezmax]
701383f 2024-10-20 | Committed all files [zezmax]
87f8cdc 2024-10-20 | Cteated html file [zezmax]
```

27.Отмена ребазирования во время конфликта.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git rebase Second
Auto-merging Hello.html
CONFLICT (content): Merge conflict in Hello.html
error: could not apply 78c017d... a lot of !!!!!!!
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
hint: Disable this message with "git config advice.mergeConflict false"
Could not apply 78c017d... a lot of !!!!!!!
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master|REBASE 1/1)
$ git rebase --abort
```

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git status
On branch master
nothing to commit, working tree clean
```

28. Пропуск текущего конфликтного коммита и переход к следующему.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git rebase Second
Auto-merging Hello.html
CONFLICT (content): Merge conflict in Hello.html
error: could not apply 78c017d... a lot of !!!!!!!
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
hint: Disable this message with "git config advice.mergeConflict false"
Could not apply 78c017d... a lot of !!!!!!!

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master|REBASE 1/1)
$ git rebase --skip
Successfully rebased and updated refs/heads/master.
```

29. Отправление изменений из локального репозитория для указанной ветки в дистанционный репозиторий.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git remote add origin https://github.com/zezmax/12345.git

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git push origin master
info: please complete authentication in your browser...
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 20 threads
Compressing objects: 100% (12/12), done.
Writing objects: 100% (16/16), 1.31 KiB | 669.00 KiB/s, done.
Total 16 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/zezmax/12345/pull/new/master
remote:
To https://github.com/zezmax/12345.git
 * [new branch]      master -> master
```

30. Изъятие изменений из репозитория, для которого были созданы удалённые ветки по умолчанию.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/лабы/3/LABA3 (master)
$ git fetch origin
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 15 (delta 2), reused 13 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (15/15), 1.27 KiB | 61.00 KiB/s, done.
From https://github.com/zezmax/12345
 * [new branch]      main -> origin/main
```

31.Изъятие изменений удалённой ветки из репозитория по умолчанию.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git fetch origin master
From https://github.com/zezmax/12345
* branch          master      -> FETCH_HEAD
```

32.Создание копии репозитория.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3
$ ls
LABA3/  git-tasks.docx  '~$лаба3.docx'  лаба3.docx
Lab1/   '~$t-tasks.docx' '~WRL0005.tmp'  'Лабораторная работа 3.docx'

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3
$ git clone LABA3 Copy_of_LABA3
Cloning into 'Copy_of_LABA3'...
done.

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3
$ ls
Copy_of_LABA3/  Lab1/  '~$t-tasks.docx'  '~WRL0005.tmp'  'Лабораторная работа 3.docx'
LABA3/          git-tasks.docx  '~$лаба3.docx'  лаба3.docx
```

33.Переименование последнего коммита.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git log --pretty=format:"%h %ad | %s%d [%an]" --date=short
1e28db9 2024-10-21 | 3 !!! (HEAD -> master, Second) [Maksim]
c6c5246 2024-10-21 | new sentence [Maksim]
6820879 2024-10-20 | Created txt file and edited html file [zezmax]
701383f 2024-10-20 | Committed all files [zezmax]
87f8cdc 2024-10-20 | Cteated html file [zezmax]

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git commit --amend
[master c4304f7] added 3 !
Date: Mon Oct 21 18:29:48 2024 +0300
1 file changed, 1 insertion(+), 1 deletion(-)

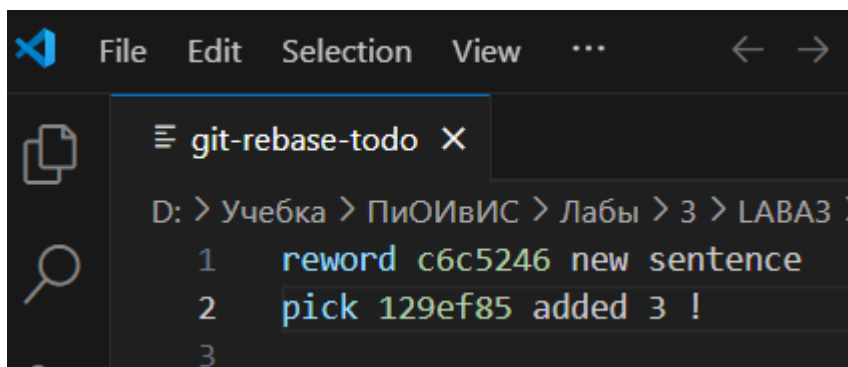
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git log --pretty=format:"%h %ad | %s%d [%an]" --date=short
c4304f7 2024-10-21 | added 3 ! (HEAD -> master) [Maksim]
c6c5246 2024-10-21 | new sentence [Maksim]
6820879 2024-10-20 | Created txt file and edited html file [zezmax]
701383f 2024-10-20 | Committed all files [zezmax]
87f8cdc 2024-10-20 | Cteated html file [zezmax]
```

34.Переименование не последнего коммита.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git rebase -i HEAD^2
fatal: invalid upstream 'HEAD^2'

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git rebase -i HEAD~2
[detached HEAD 129ef85] added 3 !
Date: Mon Oct 21 18:29:48 2024 +0300
1 file changed, 1 insertion(+), 1 deletion(-)
Successfully rebased and updated refs/heads/master.

Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git rebase -i HEAD~2
[detached HEAD 5a63d26] Added new sentence
Date: Mon Oct 21 18:23:52 2024 +0300
1 file changed, 1 insertion(+)
Successfully rebased and updated refs/heads/master.
```



35.Скрытие изменений по сравнению с последним коммитом.

```
Maxim@DESKTOP-60CF4M5 MINGW64 /d/учебка/ПиОИВИС/Лабы/3/LABA3 (master)
$ git stash
No local changes to save
```