

# Терминал (Terminal) или Командная строка (или Command Shell Git)

## Основные операции

- Инициализация папки в git и ее просмотр

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git init
Reinitialized existing Git repository in C:/Users/Ольга/Documents/practice/.git/

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ ls

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ ls -la
total 12
drwxr-xr-x 1 Елизавета 197121 0 Sep 25 20:39 ./
drwxr-xr-x 1 Елизавета 197121 0 Sep 25 20:23 ../
drwxr-xr-x 1 Елизавета 197121 0 Sep 25 21:08 .git/
```

- Отображение статуса репозитория

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master

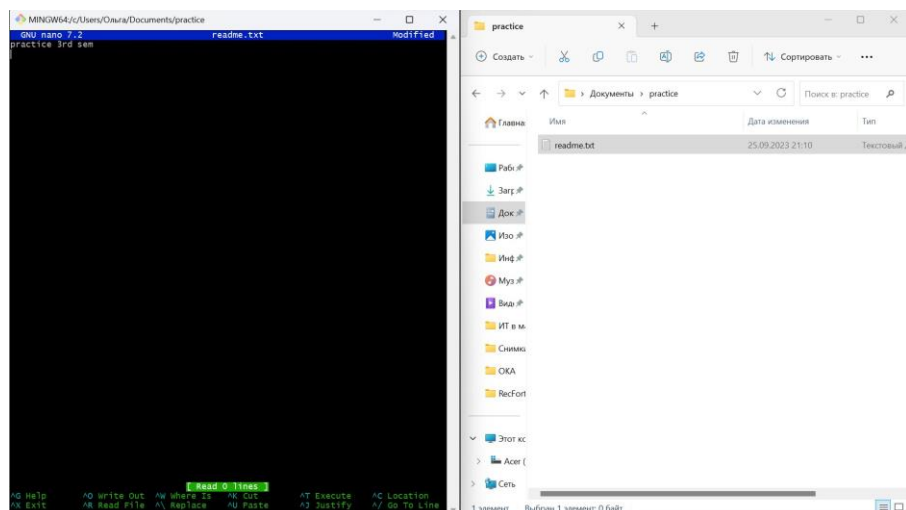
No commits yet

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

- Создание файла в текущем каталоге и его редактирование

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ touch readme.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ nano readme.txt
```



- Сохранение изменений внесенных в файл и его фиксация

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master

No commits yet

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

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

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git add readme.txt
warning: in the working copy of 'readme.txt', LF will be replaced by CRLF the next time Git touches it

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
       new file:   readme.txt
```

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git commit -m "first file"
[master (root-commit) 9815226] first file
 1 file changed, 1 insertion(+)
 create mode 100644 readme.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master
nothing to commit, working tree clean
```

- Отслеживание изменений в файле

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ nano readme.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (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:   readme.txt

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

- Добавление всех файлов .txt

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git add readme.txt
warning: in the working copy of 'readme.txt', LF will be replaced by CRLF the next time Git touches it

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git add *.txt
warning: in the working copy of 'readme.after.txt', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'readme.now.txt', LF will be replaced by CRLF the next time Git touches it

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       new file:   readme.after.txt
       new file:   readme.now.txt
       modified:   readme.txt
```

Имя	Дата изменения	Тип
readme.after.txt	25.09.2023 21:23	Текстовый
readme.now.txt	25.09.2023 21:23	Текстовый
readme.txt	25.09.2023 21:23	Текстовый

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git commit -m "all txt files added"
[master 7d63c20] all txt files added
3 files changed, 3 insertions(+), 1 deletion(-)
create mode 100644 readme.after.txt
create mode 100644 readme.now.txt
```

- Просмотр истории коммитов

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git log
commit 7d63c205a8652818153c0cc9fd55445c7ff81dd4 (HEAD -> master)
Author: vasiliza2 <124933057+vasiliza2@users.noreply.github.com>
Date: Mon Sep 25 21:29:20 2023 +0300

    all txt files added

commit 98152261605d2852a4754a14f729a95332444de0
Author: vasiliza2 <124933057+vasiliza2@users.noreply.github.com>
Date: Mon Sep 25 21:20:49 2023 +0300

    first file

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git log --summary
commit 7d63c205a8652818153c0cc9fd55445c7ff81dd4 (HEAD -> master)
Author: vasiliza2 <124933057+vasiliza2@users.noreply.github.com>
Date: Mon Sep 25 21:29:20 2023 +0300

    all txt files added

    create mode 100644 readme.after.txt
    create mode 100644 readme.now.txt

commit 98152261605d2852a4754a14f729a95332444de0
Author: vasiliza2 <124933057+vasiliza2@users.noreply.github.com>
Date: Mon Sep 25 21:20:49 2023 +0300

    first file

    create mode 100644 readme.txt
```

- Добавление удаленного репозитория и выгрузка данных

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git remote add origin https://github.com/vasiliza2/practice.git

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git push -u origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 460 bytes | 460.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/vasiliza2/practice.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```



#### Add collaborators to this repository

Search for people using their GitHub username or email address.

Invite collaborators

#### Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH <https://github.com/vasiliz>

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

#### ...or create a new repository on the command line

```
echo "# practice" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/vasiliza2/practice.git
git push -u origin main
```



practice Public Pin Unwatch 1

master 1 branch 0 tags Go to file Add file Code

vasiliza2 all txt files added 7d63c20 7 minutes ago 2 commits

readme.after.txt	all txt files added	7 minutes ago
readme.now.txt	all txt files added	7 minutes ago
readme.txt	all txt files added	7 minutes ago

readme.txt

```
practice 3 sem
```

- Получение измененных данных и их просмотр

practice / readme.txt in master

Edit Preview Code 55% faster with GitHub Copilot

```
1 practice 3 sempractice 3 sem
2 practice 3 sem
3 practice 3 sem
4 practice 3 sem
5 practice 3 sem
6
7
```

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 699 bytes | 46.00 KiB/s, done.
From https://github.com/vasiliza2/practice
* branch master -> FETCH_HEAD
7d63c20..1cabac6 master -> origin/master
Updating 7d63c20..1cabac6
Fast-forward
 readme.txt | 5 +++++
 1 file changed, 5 insertions(+)

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git diff HEAD

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ nano readme.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git diff HEAD
diff --git a/readme.txt b/readme.txt
index c38f92c..c8b0bcf 100644
--- a/readme.txt
+++ b/readme.txt
@@ -1,6 +1,6 @@
-practice 3 sempractice 3 sem
-practice 3 sem
-practice 3 sem
-practice 3 sem
+practice 3
+practice 3
+practice 3
 practice 3 sem
+practice 3
```

- Добавление каталога и файла, содержащегося в нем

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ mkdir folder

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ touch folder/bye.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master
Your branch is up to date with 'origin/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:   readme.txt

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

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

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git add folder/bye.txt
```

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   folder/bye.txt

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

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git diff --staged
diff --git a/folder/bye.txt b/folder/bye.txt
new file mode 100644
index 0000000..e69de29
```

- Отмена добавления каталога

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git reset folder/bye.txt
Unstaged changes after reset:
M   readme.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git diff --staged

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git diff
diff --git a/readme.txt b/readme.txt
index c38f92c..c5b0bcf 100644
--- a/readme.txt
+++ b/readme.txt
@@ -1,6 +1,6 @@
-practice 3 sempractice 3 sem
-practice 3 sem
-practice 3 sem
-practice 3 sem
+practice 3
+practice 3
+practice 3
+practice 3 sem
+practice 3
```

- Отмена изменений в файле

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git checkout -- readme.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

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

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

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ cat readme.txt
practice 3 sempractice 3 sem
practice 3 sem
practice 3 sem
practice 3 sem
practice 3 sem
```

- Создание ветки, работа с ней и ее удаление

```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git branch cleen_up

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git branch
  cleen_up
* master

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git checkout cleen_up
Switched to branch 'cleen_up'

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git branch
* cleen_up
  master

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ rm -r \folder

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git commit -m "deleted folder and files"
On branch cleen_up
nothing to commit, working tree clean

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git status
On branch cleen_up
nothing to commit, working tree clean

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git rm readme\ after.txt
fatal: pathspec 'readme after.txt' did not match any files

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git rm readme.now.txt
rm 'readme.now.txt'

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git rm readme.after.txt
rm 'readme.after.txt'

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git status
On branch cleen_up
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:   readme.after.txt
        deleted:   readme.now.txt
```



```
Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git commit -m "deleted folder and files"
[cleen_up 6d0ec50] deleted folder and files
2 files changed, 2 deletions(-)
delete mode 100644 readme.after.txt
delete mode 100644 readme.now.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (cleen_up)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git merge cleen_up
Updating 1cabac6..6d0ec50
Fast-forward
 readme.after.txt | 1 -
 readme.now.txt   | 1 -
2 files changed, 2 deletions(-)
delete mode 100644 readme.after.txt
delete mode 100644 readme.now.txt

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git branch -d cleen_up
Deleted branch cleen_up (was 6d0ec50).

Елизавета@LAPTOP-2DFNP375 MINGW64 ~/Documents/practice (master)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (1/1), done.
Writing objects: 100% (2/2), 258 bytes | 258.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/vasiliza2/practice.git
1cabac6..6d0ec50 master -> master
```