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Рязанский станкостроительный колледж

Отчёт о практической работе №6

Git Bash

МДК

«02. 02»

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Основная часть

Цель работы: Полная готовность к работе с Git.

Ход выполнения работы:

Задачи:

1. Финальные приготовления

1.1. Установка имени и почты

```
исп-32@lab30-04 MINGW64 ~  
$ git config --global user.name "JuliaSherstneva"  
  
исп-32@lab30-04 MINGW64 ~  
$ git config --global user.email "emili.dan528@gmail.com"
```

1.2. Имя ветки по умолчанию

```
исп-32@lab30-04 MINGW64 ~  
$ git config --global init.defaultBranch main
```

1.3. Корректная обработка окончаний строк

```
исп-32@lab30-04 MINGW64 ~  
$ git config --global core.autocrlf true  
  
исп-32@lab30-04 MINGW64 ~  
$ git config --global core.safecrlf warn
```

2. Создание проекта

2.1. Создайте страницу «Hello, World»

```
исп-32@lab30-04 MINGW64 ~  
$ mkdir work  
  
исп-32@lab30-04 MINGW64 ~  
$ cd work  
  
исп-32@lab30-04 MINGW64 ~/work  
$ touch hello.html
```

2.2. Создайте репозиторий

```
исп-32@lab30-04 MINGW64 ~/work  
$ git init  
Initialized empty Git repository in C:/Users/исп-32/work/.git/
```

2.3. Добавьте страницу в репозиторий

```
исп-32@lab30-04 MINGW64 ~/work (main)  
$ git add hello.html  
  
исп-32@lab30-04 MINGW64 ~/work (main)  
$ git commit -m "Initial Commit"  
[main (root-commit) 910c122] Initial Commit  
1 file changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 hello.html
```

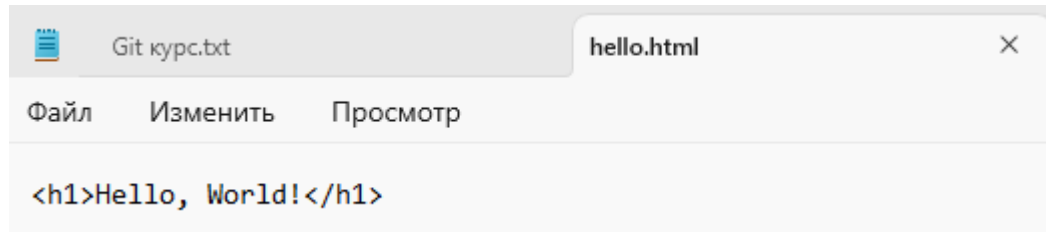
3. Проверка состояния

3.1. Проверьте состояние репозитория

```
исп-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
nothing to commit, working tree clean
```

4. Внесение изменений

4.1. Измените страницу «Hello, World»



4.2. Проверьте состояние

```
исп-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
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

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

5. Индексация изменений

5.1. Добавьте изменения

```
исп-32@lab30-04 MINGW64 ~/work (main)
$ git add hello.html

исп-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html
```

6. Индексация и коммит

6.1. Создаем новые файлы

```
исп-32@lab30-04 MINGW64 ~/work (main)
$ touch a.html

исп-32@lab30-04 MINGW64 ~/work (main)
$ touch b.html

исп-32@lab30-04 MINGW64 ~/work (main)
$ touch c.html
```

6.2. Индексируем файлы

```
исп-32@lab30-04 MINGW64 ~/work (main)
$ git add a.html

исп-32@lab30-04 MINGW64 ~/work (main)
$ git add b.html

исп-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Changes for a and b"
[main 2bb643a] Changes for a and b
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 a.html
create mode 100644 b.html

исп-32@lab30-04 MINGW64 ~/work (main)
$ git add c.html

исп-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Unrelated change to c"
[main e0fbf2d] Unrelated change to c
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 c.html
```

7. Коммит изменений

7.1. Закоммитьте изменения

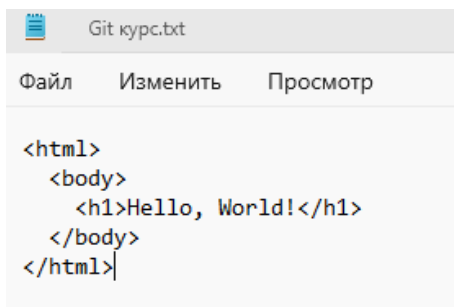
```
исп-32@lab30-04 MINGW64 ~/work (main)
$ git commit
On branch main
nothing to commit, working tree clean
```

7.2. Проверьте состояние

```
исп-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
nothing to commit, working tree clean
```

8. Изменения, а не файлы

8.1. Первое изменение: Добавьте стандартные теги страницы



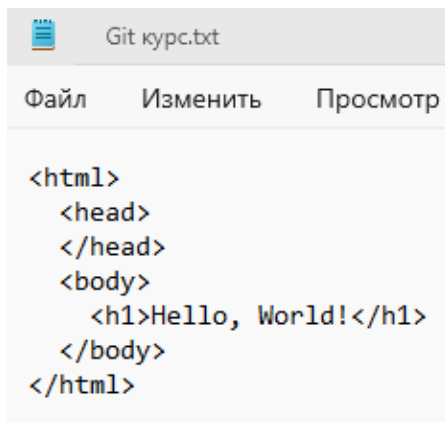
The screenshot shows a text editor window titled "Git курс.txt". The menu bar includes "Файл", "Изменить", and "Просмотр". The text content is as follows:

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

8.2. Добавьте это изменение

```
исп-32@lab30-04 MINGW64 ~/work (main)
$ git add hello.html
```

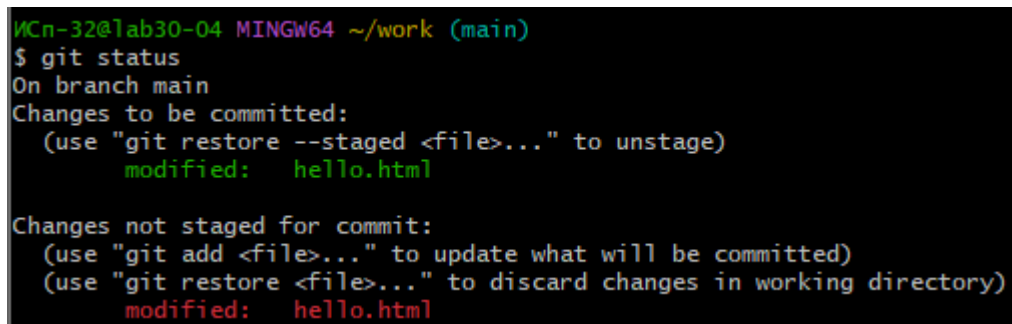
8.3. Второе изменение: Добавьте заголовки HTML



The screenshot shows a text editor window titled 'Git курс.txt'. It has a menu bar with 'Файл', 'Изменить', and 'Просмотр'. The text content is as follows:

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

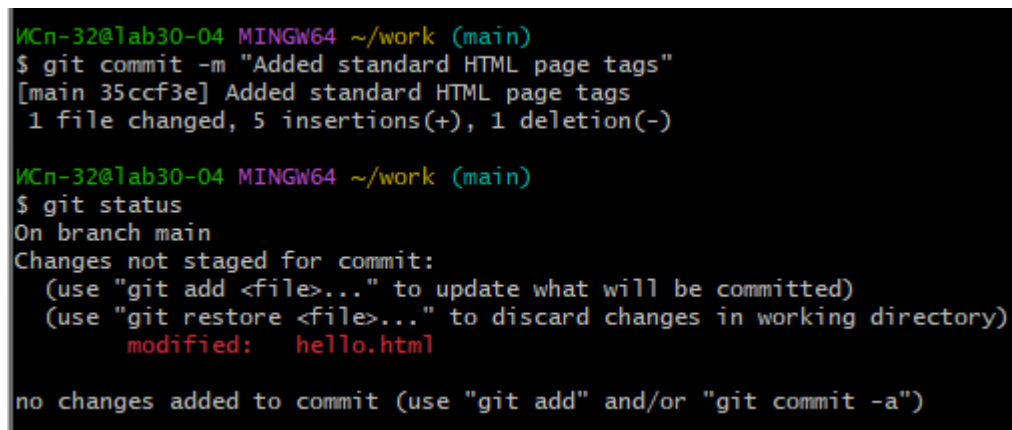
8.4. Проверьте текущий статус



```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

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
```

8.5. Коммит



```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Added standard HTML page tags"
[main 35ccf3e] Added standard HTML page tags
 1 file changed, 5 insertions(+), 1 deletion(-)

ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
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

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

8.6. Добавьте второе изменение



```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git add .

ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html
```

8.7. Сделайте коммит второго изменения

```

VCn-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Added HTML header"
[main 5ca2275] Added HTML header
1 file changed, 2 insertions(+)

```

9. История

9.1. Получение списка произведенных изменений

```

VCn-32@lab30-04 MINGW64 ~/work (main)
$ git add .

VCn-32@lab30-04 MINGW64 ~/work (main)
commit 5ca2275d7ea9497dc95e7340069f2eda8d9563d6 (HEAD -> main)
Author: JuliaSherstneva <emili.dan528@gmail.com>
Date: Mon Oct 20 17:28:22 2025 +0300

    Added HTML header

commit 35ccf3e4e77436c6a53429d5460fa1b1ecf19506
commit 5ca2275d7ea9497dc95e7340069f2eda8d9563d6 (HEAD -> main)
Author: JuliaSherstneva <emili.dan528@gmail.com>
Date: Mon Oct 20 17:28:22 2025 +0300

    Added HTML header

commit 35ccf3e4e77436c6a53429d5460fa1b1ecf19506
Author: JuliaSherstneva <emili.dan528@gmail.com>
Date: Mon Oct 20 17:26:56 2025 +0300

    Added standard HTML page tags

commit e0fbf2d5f8a1647b00f23585f9a5f416e03d9c6b
Author: JuliaSherstneva <emili.dan528@gmail.com>
Date: Fri Oct 10 16:17:07 2025 +0300

    Unrelated change to c

commit 2bb643a56c73d7f6d7c519a215f48a3c7c887679
Author: JuliaSherstneva <emili.dan528@gmail.com>
Date: Fri Oct 10 16:16:52 2025 +0300

    Changes for a and b

commit 6fd4339dc4cf3db98f335e92f32e6e5cd7bac74f
Author: JuliaSherstneva <emili.dan528@gmail.com>
Date: Fri Oct 10 16:12:39 2025 +0300

    Changes for a and b

commit 910c1220cc37d6866004c49e5208f0fd0e43ac8b
Author: JuliaSherstneva <emili.dan528@gmail.com>
Date: Fri Oct 10 16:00:31 2025 +0300

    Initial Commit

```

9.2. Однострочная история

```

VCn-32@lab30-04 MINGW64 ~/work (main)
$ git log --pretty=oneline
5ca2275d7ea9497dc95e7340069f2eda8d9563d6 (HEAD -> main) Added HTML header
35ccf3e4e77436c6a53429d5460fa1b1ecf19506 Added standard HTML page tags
e0fbf2d5f8a1647b00f23585f9a5f416e03d9c6b Unrelated change to c
2bb643a56c73d7f6d7c519a215f48a3c7c887679 Changes for a and b
6fd4339dc4cf3db98f335e92f32e6e5cd7bac74f Changes for a and b
910c1220cc37d6866004c49e5208f0fd0e43ac8b Initial Commit

```

9.3. Изолируемся

```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git log --all --pretty=format:"%h %cd %s (%an)" --since="7 days ago"
5ca2275 Mon Oct 20 17:28:22 2025 +0300 Added HTML header (JuliaSherstneva)
35ccf3e Mon Oct 20 17:26:56 2025 +0300 Added standard HTML page tags (JuliaSherstneva)
```

9.4. Конечный формат лога

```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git log --pretty=format:"%h %ad | %s%d [%an]" --date=short
5ca2275 2025-10-20 | Added HTML header (HEAD -> main) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

9.5. Настройка формата вывода истории по умолчанию

```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git config --global format.pretty '%h %ad | %s%d [%an]'
```

```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git config --global log.date short
```

10. Получение старых версий

10.1. Получите хеши предыдущих коммитов

```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git log
5ca2275 2025-10-20 | Added HTML header (HEAD -> main) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

10.2. Проверьте содержимое файла

```
ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git checkout ^C

ИCn-32@lab30-04 MINGW64 ~/work (main)
$ git checkout 910c122
Note: switching to '910c122'.

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 910c122 Initial Commit

ИCn-32@lab30-04 MINGW64 ~/work ((910c122...))
$ cat hello.html
```

10.3. Вернитесь к последней версии в ветке main

```

MCn-32@lab30-04 MINGW64 ~/work ((910c122...))
$ git switch main
Previous HEAD position was 910c122 Initial Commit
Switched to branch 'main'

MCn-32@lab30-04 MINGW64 ~/work (main)
$ cat hello.html
<html>
  <head>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>

```

11. Создание тегов версий

11.1. Создайте тег первой версии

```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git tag v1

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log
5ca2275 2025-10-20 | Added HTML header (HEAD -> main, tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]

```

11.2. Теги для предыдущих версий

```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git checkout v1^
Note: switching to 'v1^'.

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 35ccf3e Added standard HTML page tags

ИСП-32@lab30-04 MINGW64 ~/work ((35ccf3e...))
$ cat hello.html
<html>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>

```

11.3. Сделаем ее версией v1-beta.


```
ИСП-32@lab30-04 MINGW64 ~/work ((35ccf3e...))
$ git tag v1-beta

ИСП-32@lab30-04 MINGW64 ~/work ((v1-beta))
$

ИСП-32@lab30-04 MINGW64 ~/work ((v1-beta))
$ git log
35ccf3e 2025-10-20 | Added standard HTML page tags (HEAD, tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

11.4. Переключение по имени тега

```
ИСП-32@lab30-04 MINGW64 ~/work ((v1-beta))
$ git checkout v1
Previous HEAD position was 35ccf3e Added standard HTML page tags
HEAD is now at 5ca2275 Added HTML header

ИСП-32@lab30-04 MINGW64 ~/work ((v1))
$ git checkout v1-beta
Previous HEAD position was 5ca2275 Added HTML header
HEAD is now at 35ccf3e Added standard HTML page tags
```

11.5. Просмотр тегов с помощью команды tag

```
ИСП-32@lab30-04 MINGW64 ~/work ((v1-beta))
$ git tag
v1
v1-beta
```

11.6. Просмотр Тегов в логах

```
ИСП-32@lab30-04 MINGW64 ~/work ((v1-beta))
$ git log main --all
5ca2275 2025-10-20 | Added HTML header (tag: v1, main) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (HEAD, tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

12.Отмена локальных изменений (до индексации)

12.1. Переключитесь на ветку main

```
ИСП-32@lab30-04 MINGW64 ~/work ((v1-beta))
$ git switch main
Previous HEAD position was 35ccf3e Added standard HTML page tags
Switched to branch 'main'
```

12.2. Измените hello.html

```
Файл  Изменить  Просмотр

<html>
  <head>
</head>
  <body>
    <h1>Hello, World!</h1>
    <!-- This is a bad comment. We want to revert it. -->
  </body>
</html>
```

12.3. Проверьте состояние

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
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

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

12.4. Отмена изменений в рабочем каталоге

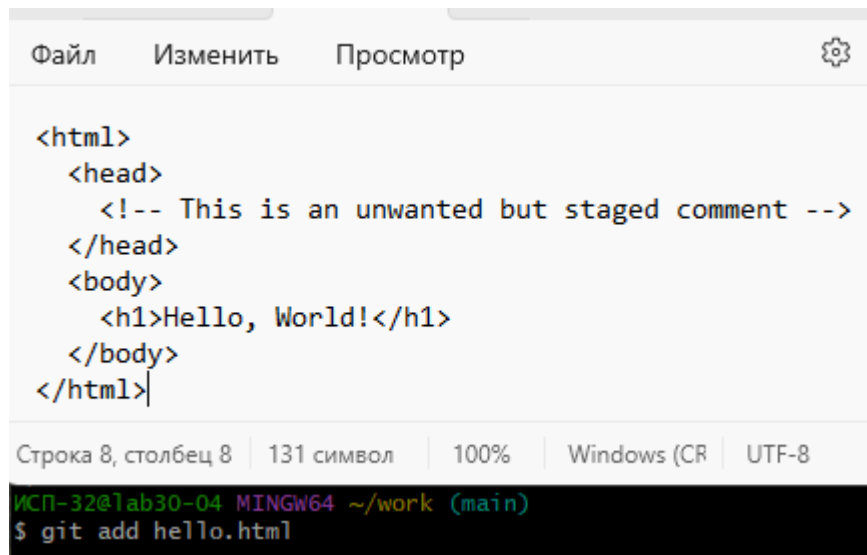
```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git restore hello.html

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
nothing to commit, working tree clean

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ cat hello.html
<html>
  <head>
</head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

13. Отмена проиндексированных изменений (перед коммитом)

13.1. Измените файл и проиндексируйте изменения



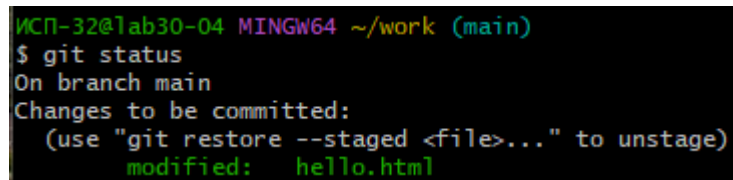
The screenshot shows a code editor with a menu bar containing 'Файл', 'Изменить', and 'Просмотр'. The editor displays an HTML file with the following content:

```
<html>
  <head>
    <!-- This is an unwanted but staged comment -->
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

Below the editor, a status bar indicates 'Строка 8, столбец 8', '131 символ', '100%', 'Windows (CR', and 'UTF-8'. At the bottom, a terminal window shows the command prompt:

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add hello.html
```

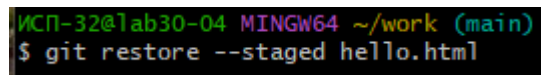
13.2. Проверьте состояние



The terminal window shows the output of the 'git status' command:

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html
```

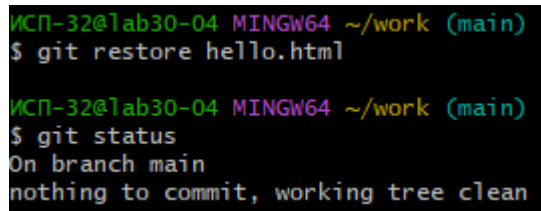
13.3. Восстановление индекса



The terminal window shows the command 'git restore --staged hello.html' being executed:

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git restore --staged hello.html
```

13.4. Восстановление рабочего каталога



The terminal window shows the command 'git restore hello.html' being executed, followed by the output of 'git status':

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git restore hello.html

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git status
On branch main
nothing to commit, working tree clean
```

14. Отмена коммитов

14.1. Измените файл и сделайте коммит

```
Файл  Изменить  Просмотр

<html>
<head>
</head>
<body>
  <h1>Hello, World!</h1>
  <!-- This is an unwanted but committed
change -->
</body>
</html>

Строка 9, столбец 1 | 134 символа | 100% | Windows (CR
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add hello.html

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Oops, we didn't want this commit"
[main bc16679] Oops, we didn't want this commit
1 file changed, 2 insertions(+), 1 deletion(-)
```

14.2. Сделайте коммит с новыми изменениями, отменяющими предыдущие

```
[main ad604fb] Revert "Oops, we didn't want this commit"
1 file changed, 1 insertion(+), 2 deletions(-)
```

14.3. Проверьте лог

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log
ad604fb 2025-10-21 | Revert "Oops, we didn't want this commit" (HEAD -> main) [JuliaSherstneva]
bc16679 2025-10-21 | Oops, we didn't want this commit [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

15. Удаление коммитов из ветки

15.1. Проверьте нашу историю

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log
ad604fb 2025-10-21 | Revert "Oops, we didn't want this commit" (HEAD -> main) [JuliaSherstneva]
bc16679 2025-10-21 | Oops, we didn't want this commit [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

15.2. Для начала отметьте эту ветку

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git tag oops

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log
ad604fb 2025-10-21 | Revert "Oops, we didn't want this commit" (HEAD -> main, tag: oops) [JuliaSherstneva]
bc16679 2025-10-21 | Oops, we didn't want this commit [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

15.3. Сброс к коммиту, предшествующему oops

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git reset --hard v1
HEAD is now at 5ca2275 Added HTML header

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log
5ca2275 2025-10-20 | Added HTML header (HEAD -> main, tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

15.4. Ничего никогда не теряется

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log --all
ad604fb 2025-10-21 | Revert "Oops, we didn't want this commit" (tag: oops) [JuliaSherstneva]
bc16679 2025-10-21 | Oops, we didn't want this commit [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (HEAD -> main, tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

16. Удаление тега oops

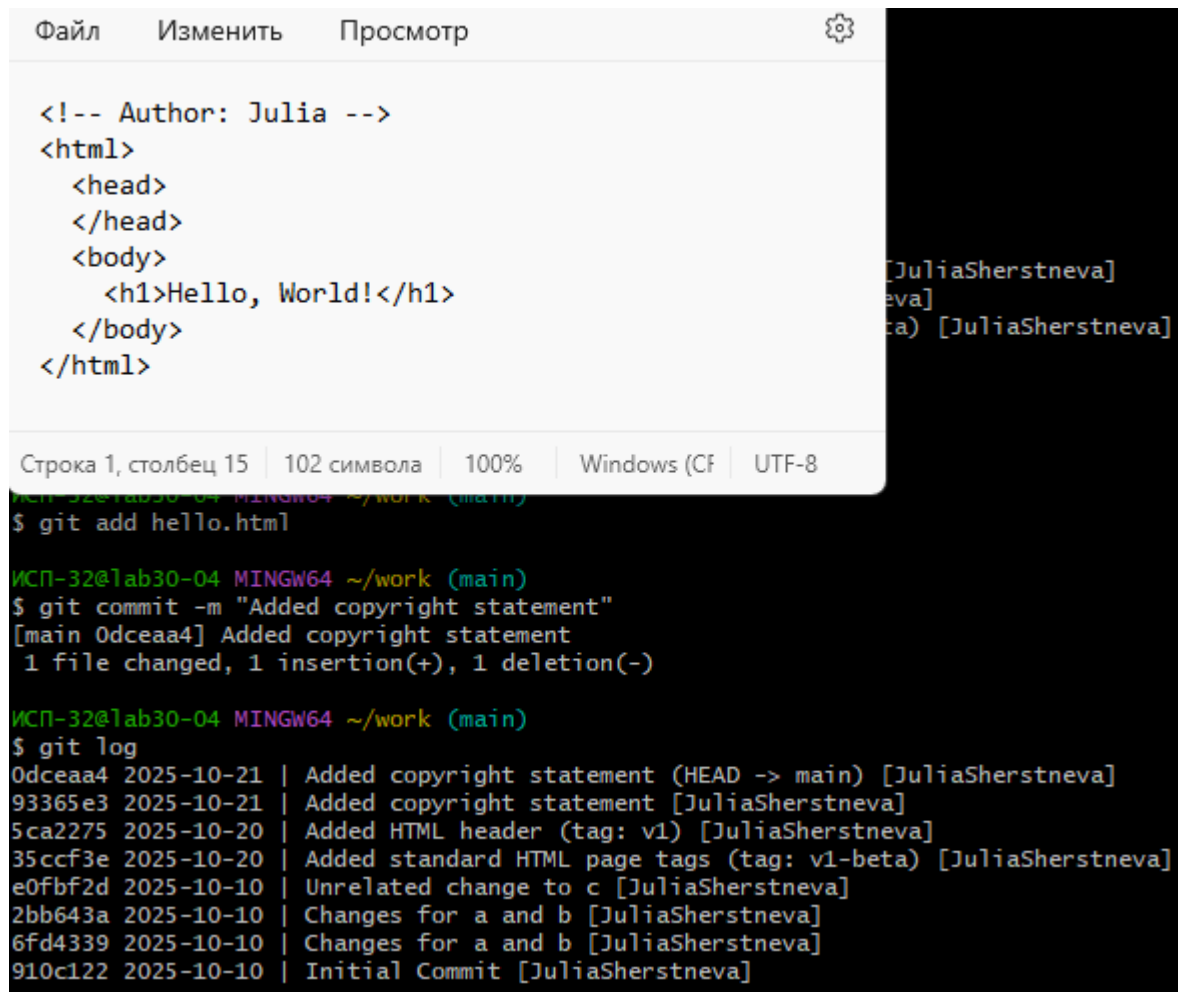
16.1. Удаление тега oops

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git tag -d oops
Deleted tag 'oops' (was ad604fb)

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log --all
5ca2275 2025-10-20 | Added HTML header (HEAD -> main, tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

17. Внесение изменений в коммиты

17.1. Измените страницу, а затем сделайте коммит



The screenshot shows a code editor window with a menu bar (Файл, Изменить, Просмотр) and a settings icon. The editor contains an HTML file with a copyright notice for Julia. Below the editor, a terminal window shows the following commands and output:

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add hello.html

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Added copyright statement"
[main 0dceaa4] Added copyright statement
1 file changed, 1 insertion(+), 1 deletion(-)

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log
0dceaa4 2025-10-21 | Added copyright statement (HEAD -> main) [JuliaSherstneva]
93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

17.2. Ой... необходим email

```
<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

17.3. Измените предыдущий коммит

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add hello.html

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit --amend -m "Added copyright statement with email"
[main 920dc15] Added copyright statement with email
Date: Tue Oct 21 15:44:22 2025 +0300
1 file changed, 1 insertion(+), 1 deletion(-)
```

17.4. Просмотр истории

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log
920dc15 2025-10-21 | Added copyright statement with email (HEAD -> main) [JuliaSherstneva]
93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

18. Создание ветки

18.1. Создайте ветку

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git switch -c style
fatal: a branch named 'style' already exists

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git status
On branch style
nothing to commit, working tree clean
```

18.2. Добавьте файл стилей style.css

```
# style.css  X
C: > Users > исп-32 > work > # style.css
1  h1 {
2    color: red;
3  }
```

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ touch style.css

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git add style.css

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git commit -m "Added css stylesheet"
[style 871bd3b] Added css stylesheet
1 file changed, 3 insertions(+)
create mode 100644 style.css
```

18.3. Измените hello.html, чтобы он использовал style.css.

```

<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
    <link type="text/css" rel="stylesheet" media="all" href="style.css" />
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>

```

Строка 9, столбец 8 | 202 символа

100%

Windows (CRLF)

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git add hello.html

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git commit -m "Included stylesheet into hello.html"
[style 04f2d2c] Included stylesheet into hello.html
1 file changed, 1 insertion(+)

```

19. Переключение веток

19.1. Теперь в вашем проекте есть две ветки:

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log --all
04f2d2c 2025-10-21 | Included stylesheet into hello.html (HEAD -> style) [JuliaSherstneva]
871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]
920dc15 2025-10-21 | Added copyright statement with email (main) [JuliaSherstneva]
93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]

```

19.2. Переключение на ветку main

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git switch main
Switched to branch 'main'

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ cat hello.html
<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
ИСП-32@lab30-04 MINGW64 ~/work (main)

```

19.3. Вернемся к ветке style


```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git switch style
Switched to branch 'style'

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ cat hello.html
<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
    <link type="text/css" rel="stylesheet" media="all" href="style.css" />
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>

```

20. Перемещение файлов

20.1. Просмотр истории изменений в конкретном файле

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log hello.html
04f2d2c 2025-10-21 | Included stylesheet into hello.html (HEAD -> style) [JuliaSherstneva]
920dc15 2025-10-21 | Added copyright statement with email (main) [JuliaSherstneva]
93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log style.css
871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]

```

20.2. Просмотр различий для конкретного файла

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git show v1
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]

diff --git a/hello.html b/hello.html
index 103d1db..807ed91 100644
--- a/hello.html
+++ b/hello.html
@@ -1,4 +1,6 @@
<html>
+ <head>
+ </head>
  <body>
    <h1>Hello, World!</h1>
  </body>

```

20.3. Переименуйте файл hello.html

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ mv hello.html index.html

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git status
On branch style
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    hello.html

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

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

```

20.4. Добавим его в индекс:

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git add .

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git status
On branch style
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    hello.html -> index.html

```

20.5. Переместите style.css безопасным способом

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ mkdir css

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git mv style.css css/style.css

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git status
On branch style
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    style.css -> css/style.css
        renamed:    hello.html -> index.html

```

20.6. Просмотр истории файла до его перемещения

```

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git commit -m "Renamed hello.html; moved style.css"
[style efd85c8] Renamed hello.html; moved style.css
2 files changed, 0 insertions(+), 0 deletions(-)
rename style.css => css/style.css (100%)
rename hello.html => index.html (100%)

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log css/style.css
efd85c8 2025-10-21 | Renamed hello.html; moved style.css (HEAD -> style) [JuliaSherstneva]

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log --follow css/style.css
efd85c8 2025-10-21 | Renamed hello.html; moved style.css (HEAD -> style) [JuliaSherstneva]
871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]

```

21. Изменения в ветке main

21.1. Создайте файл README



21.2. Сделайте коммит файла README в ветку main

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git switch main
Switched to branch 'main'

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add README
fatal: pathspec 'README' did not match any files

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add .

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add README.cs

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Added README"
[main 4785e98] Added README
1 file changed, 1 insertion(+)
create mode 100644 README.cs
```

22. Просмотр отличающихся веток

22.1. Просмотрите текущие ветки

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log --all --graph
* 4785e98 2025-10-21 | Added README (HEAD -> main) [JuliaSherstneva]
| * efd85c8 2025-10-21 | Renamed hello.html; moved style.css (style) [JuliaSherstneva]
| * 04f2d2c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
| * 871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]
|/
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

23. Слияние

23.1. Слияние веток

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Added README"
[main 4785e98] Added README
1 file changed, 1 insertion(+)
create mode 100644 README.cs
```

```

Merge made by the 'ort' strategy.
 README.cs | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 README.cs

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log --all --graph
*   d678a16 2025-10-21 | Merge branch 'main' into style (HEAD -> style) [JuliaSherstneva]
| \
| * 4785e98 2025-10-21 | Added README (main) [JuliaSherstneva]
| * | efd85c8 2025-10-21 | Renamed hello.html; moved style.css [JuliaSherstneva]
| * | 04f2d2c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
| * | 871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]
| /
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]

```

24. Создание конфликта

24.1. Вернитесь в main и создайте конфликт

```

<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
    <title>Hello World Page</title>
  </head>
  <body>
    <h1>Hello, World!</h1>
    <p>Let's learn Git together.</p>
  </body>
</html>

```

Строка 10, столбец 8 | 200 символов

```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add hello.html

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Added meta title"
[main 9aacd5a] Added meta title
1 file changed, 2 insertions(+)

```

24.2. Просмотр веток

```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log --all --graph
* 9aacd5a 2025-10-21 | Added meta title (HEAD -> main) [JuliaSherstneva]
| * d678a16 2025-10-21 | Merge branch 'main' into style (style) [JuliaSherstneva]
| | \
| | /
| | /
| | /
* | 4785e98 2025-10-21 | Added README [JuliaSherstneva]
| * efd85c8 2025-10-21 | Renamed hello.html; moved style.css [JuliaSherstneva]
| * 04f2d2c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
| * 871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]
| /
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]

```

25. Разрешение конфликтов

25.1. Слияние main в ветку style

```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git switch style
Switched to branch 'style'

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git merge main
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.

```

25.2. Посмотрим, что скажет по этому поводу Git:

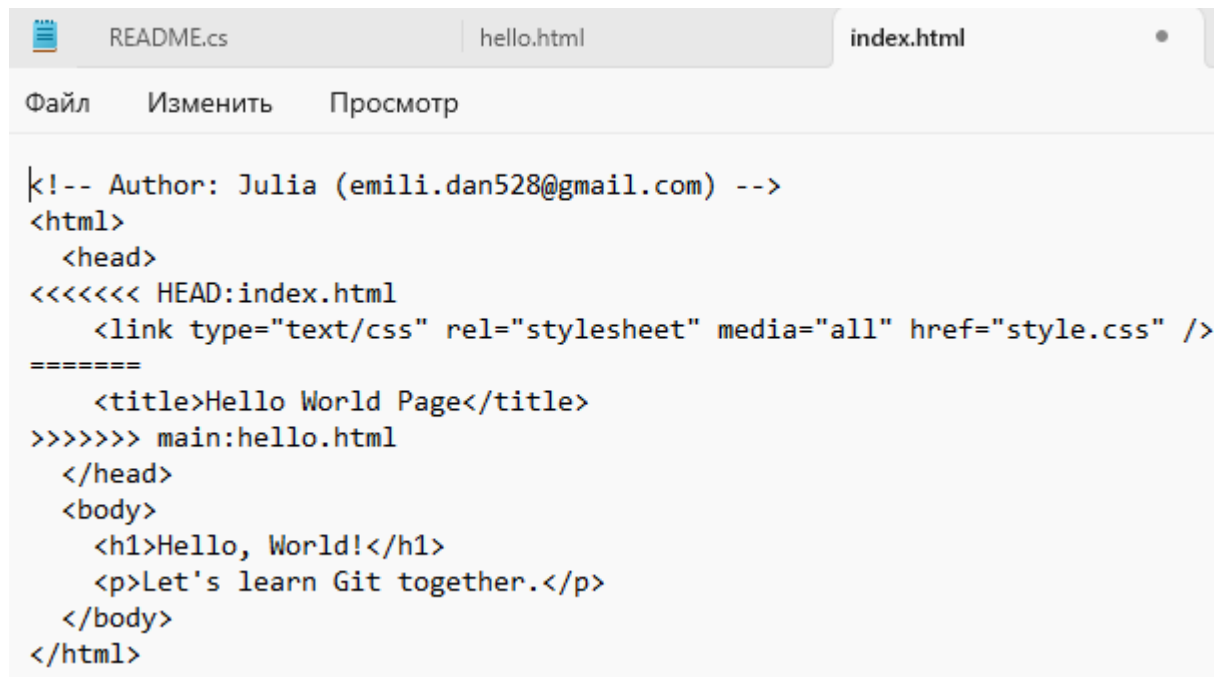
```

ИСП-32@lab30-04 MINGW64 ~/work (style|MERGING)
$ git status
On branch style
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:   index.html

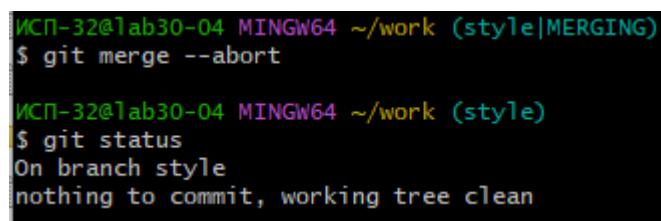
no changes added to commit (use "git add" and/or "git commit -a")

```



```
<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
<<<<<< HEAD:index.html
    <link type="text/css" rel="stylesheet" media="all" href="style.css" />
=====
    <title>Hello World Page</title>
>>>>>> main:hello.html
  </head>
  <body>
    <h1>Hello, World!</h1>
    <p>Let's learn Git together.</p>
  </body>
</html>
```

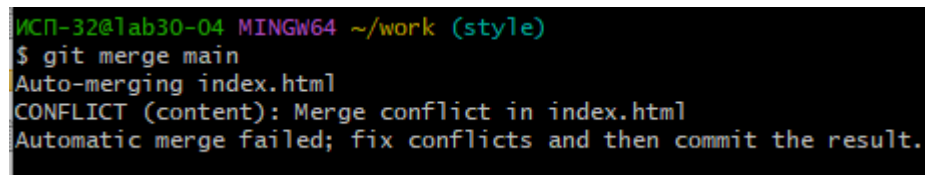
25.3. Отмена слияния



```
ИСП-32@lab30-04 MINGW64 ~/work (style|MERGING)
$ git merge --abort

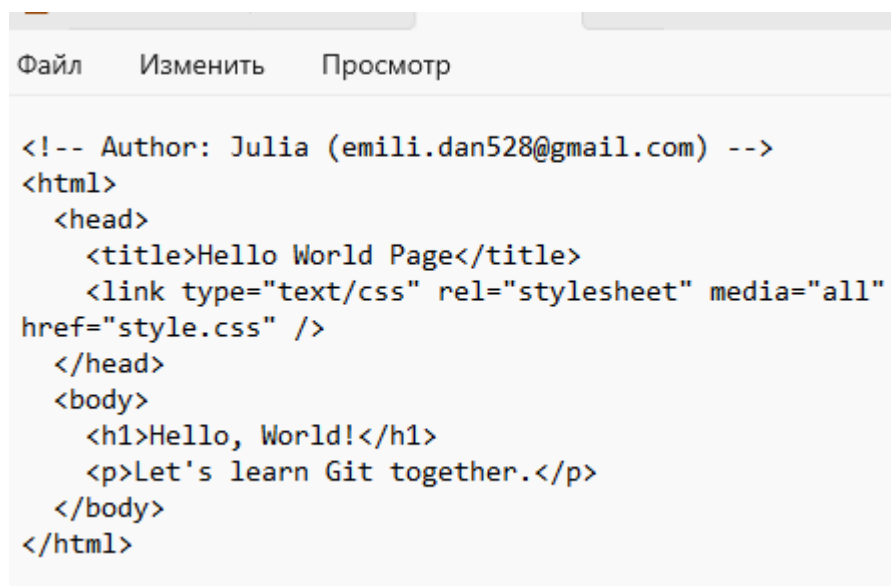
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git status
On branch style
nothing to commit, working tree clean
```

25.4. Решение конфликта



```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git merge main
Auto-merging index.html
CONFLICT (content): Merge conflict in index.html
Automatic merge failed; fix conflicts and then commit the result.
```

25.5. Отредактируем файл до следующего состояния:



```
<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
    <title>Hello World Page</title>
    <link type="text/css" rel="stylesheet" media="all"
href="style.css" />
  </head>
  <body>
    <h1>Hello, World!</h1>
    <p>Let's learn Git together.</p>
  </body>
</html>
```


25.6. Закоммитьте разрешенный конфликт

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git add index.html

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git commit -m "Resolved merge conflict"
[style 3eb565c] Resolved merge conflict
1 file changed, 2 insertions(+)

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git status
On branch style
nothing to commit, working tree clean

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log --all --graph
* 3eb565c 2025-10-24 | Resolved merge conflict (HEAD -> style) [JuliaSherstneva]
* d678a16 2025-10-21 | Merge branch 'main' into style [JuliaSherstneva]
|\
* | efd85c8 2025-10-21 | Renamed hello.html; moved style.css [JuliaSherstneva]
* | 04f2d2c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
* | 871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]
| | * 9aacd5a 2025-10-21 | Added meta title (main) [JuliaSherstneva]
| | /
| | * 4785e98 2025-10-21 | Added README [JuliaSherstneva]
| | /
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

26. rebase против merge

27. Сброс ветки style

27.1. Сбросьте ветку style

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git switch style
Already on 'style'

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log --graph
* 3eb565c 2025-10-24 | Resolved merge conflict (HEAD -> style) [JuliaSherstneva]
* d678a16 2025-10-21 | Merge branch 'main' into style [JuliaSherstneva]
|\
* | 4785e98 2025-10-21 | Added README [JuliaSherstneva]
* | efd85c8 2025-10-21 | Renamed hello.html; moved style.css [JuliaSherstneva]
* | 04f2d2c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
* | 871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]
| |
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

27.2. Давайте сбросим ветку style к этому коммиту

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git reset --hard HEAD~2
HEAD is now at efd85c8 Renamed hello.html; moved style.css
```

27.3. Проверьте ветку

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log --graph
* efd85c8 2025-10-21 | Renamed hello.html; moved style.css (HEAD -> style) [JuliaSherstneva]
* 04f2d2c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
* 871bd3b 2025-10-21 | Added css stylesheet [JuliaSherstneva]
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

28. Перебазирование

28.1. Перезабазуем ветку style на ветку main

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git switch style
Already on 'style'

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git rebase main
Auto-merging hello.html
CONFLICT (content): Merge conflict in hello.html
error: could not apply 04f2d2c... Included stylesheet into hello.html
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 set advice.mergeConflict false"
Could not apply 04f2d2c... # Included stylesheet into hello.html

ИСП-32@lab30-04 MINGW64 ~/work (style|REBASE 2/3)
$ git status
interactive rebase in progress; onto 9aacd5a
Last commands done (2 commands done):
  pick 871bd3b # Added css stylesheet
  pick 04f2d2c # Included stylesheet into hello.html
Next command to do (1 remaining command):
  pick efd85c8 # Renamed hello.html; moved style.css
(use "git rebase --edit-todo" to view and edit)
You are currently rebasing branch 'style' on '9aacd5a'.
(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")
```



```
Файл  Изменить  Просмотр

<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
<<<<<<< HEAD
    <title>Hello World Page</title>
=====
    <link type="text/css" rel="stylesheet" media="all"
href="style.css" />
>>>>>> 04f2d2c (Included stylesheet into hello.html)
  </head>
  <body>
    <h1>Hello, World!</h1>
    <p>Let's learn Git together.</p>
  </body>
</html>
```

28.2. Разрешение конфликта

```
README.cs  hello.t  X  index.html  +  -  L
Файл  Изменить  Просмотр

<!-- Author: Julia (emili.dan528@gmail.com) -->
<html>
  <head>
    <title>Hello World Page</title>
    <link type="text/css" rel="stylesheet" media="all"
href="style.css" />
  </head>
  <body>
    <h1>Hello, World!</h1>
    <p>Let's learn Git together.</p>
  </body>
</html>|
```

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git add .

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git rebase --continue
```

```
[detached HEAD aa4ac6c] Included stylesheet into hello.html
1 file changed, 1 insertion(+)
Successfully rebased and updated refs/heads/style.
```

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git status
On branch style
nothing to commit, working tree clean

ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git log --all --graph
* 28f90cc 2025-10-21 | Renamed hello.html; moved style.css (HEAD -> style) [JuliaSherstneva]
* aa4ac6c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
* dda4fe2 2025-10-21 | Added css stylesheet [JuliaSherstneva]
* 9aacd5a 2025-10-21 | Added meta title (main) [JuliaSherstneva]
* 4785e98 2025-10-21 | Added README [JuliaSherstneva]
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

28.3. Слияние VS перебазирование

29. Слияние в ветку main

29.1. Слейте style в main

```
ИСП-32@lab30-04 MINGW64 ~/work (style)
$ git switch main
Switched to branch 'main'

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git merge style
Updating 9aacd5a..28f90cc
Fast-forward
 css/style.css      | 3 +++
 hello.html => index.html | 1 +
 2 files changed, 4 insertions(+)
 create mode 100644 css/style.css
 rename hello.html => index.html (72%)
```

29.2. Просмотрите логи

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git log --all --graph
* 28f90cc 2025-10-21 | Renamed hello.html; moved style.css (HEAD -> main, style) [JuliaSherstneva]
* aa4ac6c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
* dda4fe2 2025-10-21 | Added css stylesheet [JuliaSherstneva]
* 9aacd5a 2025-10-21 | Added meta title [JuliaSherstneva]
* 4785e98 2025-10-21 | Added README [JuliaSherstneva]
* 920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
* 93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
* 5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
* 35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
* e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
* 2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
* 910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

30. Клонирование репозитория

30.1. Перейдите в директорию repositories

```
ИСП-32@lab30-04 MINGW64 ~/repositories/work (main)
$ cd ..

ИСП-32@lab30-04 MINGW64 ~/repositories
$ pwd
/c/Users/исп-32/repositories

ИСП-32@lab30-04 MINGW64 ~/repositories
$ ls
work/
```

30.2. Создайте клон репозитория work

```
ИСП-32@lab30-04 MINGW64 ~/repositories
$ git clone work home
Cloning into 'home'...
done.

ИСП-32@lab30-04 MINGW64 ~/repositories
$ ls
home/  work/
```

31. Просмотр клонированного репозитория

31.1. Посмотрите на клонированный репозиторий

```
ИСП-32@lab30-04 MINGW64 ~
$ cd home

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ ls
README.cs  a.html  b.html  c.html  css/  index.html
```

31.2. Просмотрите историю репозитория

```
ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git log --all
28f90cc 2025-10-21 | Renamed hello.html; moved style.css (HEAD -> main, origin/style, origin/main, origin/HEAD) [JuliaSherstneva]
aa4ac6c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
dda4fe2 2025-10-21 | Added css stylesheet [JuliaSherstneva]
9aacd5a 2025-10-21 | Added meta title [JuliaSherstneva]
4785e98 2025-10-21 | Added README [JuliaSherstneva]
920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]
```

32. Что такое origin?

32.1. git remote

```
ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git remote
origin

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git remote show origin
* remote origin
Fetch URL: C:/Users/исп-32/work
Push URL: C:/Users/исп-32/work
HEAD branch: main
Remote branches:
  main tracked
  style tracked
Local branch configured for 'git pull':
  main merges with remote main
Local ref configured for 'git push':
  main pushes to main (up to date)
```

33. Удаленные ветки

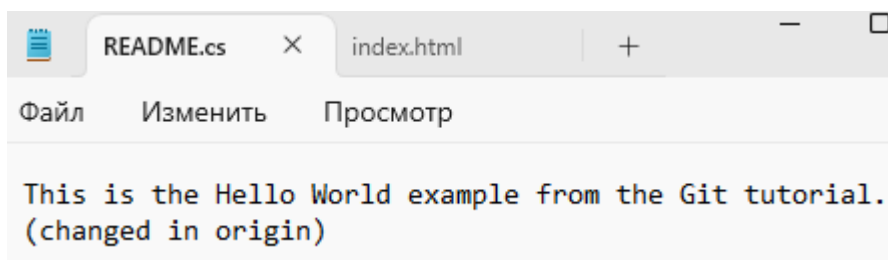
```
ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git branch
* main
```

33.1. Список удаленных веток

```
ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git branch -a
* main
remotes/origin/HEAD -> origin/main
remotes/origin/main
remotes/origin/style
```

34. Изменение оригинального репозитория

34.1. Внесите изменения в оригинальный репозиторий work



```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add README.cs

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Changed README in original repo"
[main f727cd4] Changed README in original repo
1 file changed, 2 insertions(+), 1 deletion(-)
```

35. Подтягивание изменений

```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ cd ../home

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git fetch
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 (from 0)
Unpacking objects: 100% (3/3), 353 bytes | 50.00 KiB/s, done.
From C:/Users/исп-32/work
 28f90cc..f727cd4  main      -> origin/main

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git log --all
f727cd4 2025-10-24 | Changed README in original repo (origin/main, origin/HEAD) [JuliaSherstneva]
28f90cc 2025-10-21 | Renamed hello.html; moved style.css (HEAD -> main, origin/style) [JuliaSherstneva]
aa4ac6c 2025-10-21 | Included stylesheet into hello.html [JuliaSherstneva]
dda4fe2 2025-10-21 | Added css stylesheet [JuliaSherstneva]
9aacd5a 2025-10-21 | Added meta title [JuliaSherstneva]
4785e98 2025-10-21 | Added README [JuliaSherstneva]
920dc15 2025-10-21 | Added copyright statement with email [JuliaSherstneva]
93365e3 2025-10-21 | Added copyright statement [JuliaSherstneva]
5ca2275 2025-10-20 | Added HTML header (tag: v1) [JuliaSherstneva]
35ccf3e 2025-10-20 | Added standard HTML page tags (tag: v1-beta) [JuliaSherstneva]
e0fbf2d 2025-10-10 | Unrelated change to c [JuliaSherstneva]
2bb643a 2025-10-10 | Changes for a and b [JuliaSherstneva]
6fd4339 2025-10-10 | Changes for a and b [JuliaSherstneva]
910c122 2025-10-10 | Initial Commit [JuliaSherstneva]

```

35.1. Проверьте README

```

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ cat README.cs
This is the Hello World example from the GitHowTo tutorial.

```

36. Слияние подтянутых изменений

36.1. Слейте подтянутые изменения в локальную ветку main

```

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git merge origin/main
Updating 28f90cc..f727cd4
Fast-forward
 README.cs | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)

```

36.2. Еще раз проверьте файл README

```

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ cat README.cs
This is the Hello World example from the Git tutorial.
(changed in origin)

```

36.3. Команда pull (подтянуть)

```

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git pull
Already up to date.

```

37. Добавление ветки наблюдения

37.1. Добавьте локальную ветку, которая отслеживает удаленную ветку

```

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git branch --track style origin/style
branch 'style' set up to track 'origin/style'.

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git branch -a
* main
  style
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/style

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git log --max-count=2
f727cd4 2025-10-24 | Changed README in original repo (HEAD -> main, origin/main, origin/HEAD) [JuliaSherstneva]
28f90cc 2025-10-21 | Renamed hello.html; moved style.css (origin/style, style) [JuliaSherstneva]

```

38. Чистые репозитории

38.1. Создайте чистый репозиторий

```

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ cd ..

ИСП-32@lab30-04 MINGW64 ~
$ git clone --bare work work.git
Cloning into bare repository 'work.git'...
done.

ИСП-32@lab30-04 MINGW64 ~
$ ls work.git
HEAD  config  description  hooks/  info/  objects/  packed-refs  refs/

```

39. Добавление удаленного репозитория

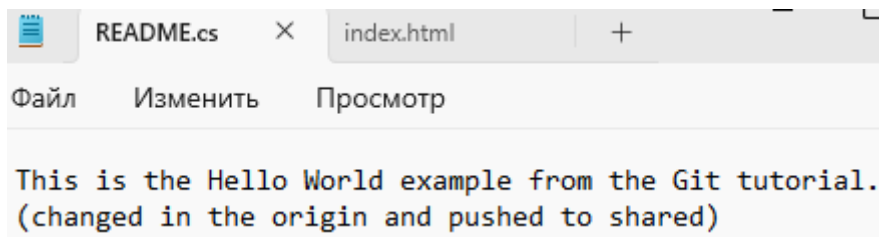
```

ИСП-32@lab30-04 MINGW64 ~
$ cd work

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git remote add shared ../work.git

```

40. Отправка изменений



```

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git switch main
M      README.cs
Already on 'main'

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add README
fatal: pathspec 'README' did not match any files

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git add README.cs

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git commit -m "Added shared comment to readme"
[main 3d67721] Added shared comment to readme
1 file changed, 1 insertion(+), 1 deletion(-)

```

40.1. Теперь отправьте изменения в общий репозиторий.

```
ИСП-32@lab30-04 MINGW64 ~/work (main)
$ git push shared main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 379 bytes | 379.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
To ../work.git
f727cd4..3d67721 main -> main
```

41. Подтягивание общих изменений

```
MINGW64/c/Users/исп-32/home

ИСП-32@lab30-04 MINGW64 ~/work (main)
$ cd ../home

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git remote add shared ../work.git

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git branch --track shared main
branch 'shared' set up to track 'main'.

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ git pull shared main
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 (from 0)
Unpacking objects: 100% (3/3), 359 bytes | 59.00 KiB/s, done.
From ../work
 * branch          main      -> FETCH_HEAD
 * [new branch]    main      -> shared/main
Updating f727cd4..3d67721
Fast-forward
 README.cs | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

ИСП-32@lab30-04 MINGW64 ~/home (main)
$ cat README.cs
This is the Hello World example from the Git tutorial.
(changed in the origin and pushed to shared)
ИСП-32@lab30-04 MINGW64 ~/home (main)
```

42. Размещение ваших Git-репозитория

42.1. Запуск Git-сервера

42.2. Отправка изменений в Git Daemon

Заключение

Таким образом, в ходе выполнения работы была проведена полная готовность к работе с Git.

```
git config --global user.name "JuliaSherstneva"
```

```
git config --global user.email "emili.dan528@gmail.com"
```

```
cd work
```