

Практика номер 1

Дмитрий Брисенко

Работа с Git

Подготовка

Установка имени и электронной почты

```
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ git config --global user.name "Dmitry Borisenko"  
  
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ git config --global user.email "borisemkodima00@gmail.com"
```

Параметры окончаний строк

```
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ git config --global core.autocrlf true  
  
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ git config --global core.safecrlf true  
  
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ git config --global core.autocrlf true
```

Установка отображения unicode

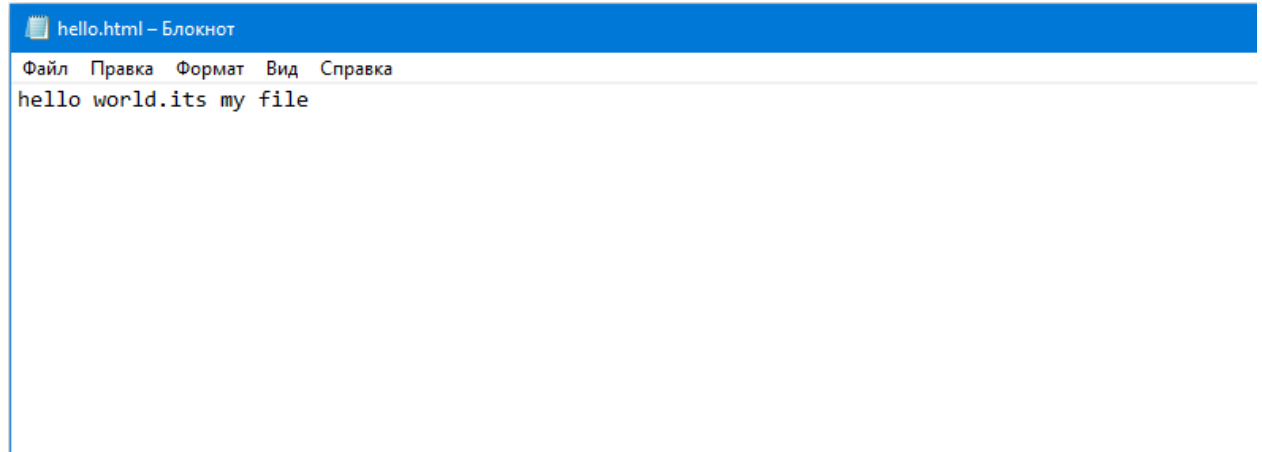
```
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ git config --global core.quotePath off  
  
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ |
```

Создание проекта

Создание каталога и файла



Рисунок 1 - Содержание файла



Создание репозитория

```
Dima@DESKTOP-KGL7KHH MINGW64 -  
$ git init  
Initialized empty Git repository in C:/Users/724/.git/  
Dima@DESKTOP-KGL7KHH MINGW64 - (master)  
$
```

Добавление в репозиторий

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)  
$ git add hello.html  
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)  
$
```

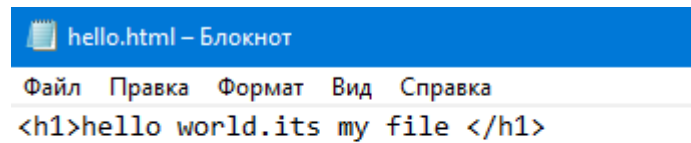
Проверка состояния

Проверка состояния репозитория

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)  
$ git status  
On branch master  
nothing to commit, working tree clean
```

Внесение изменений

Внесение изменений в файл



```
hello.html - Блокнот
Файл  Правка  Формат  Вид  Справка
<h1>hello world.its my file </h1>
```

Сообщение о незафиксированных изменениях

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (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

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

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |
```

Индексация изменений

Команды для индексации изменений

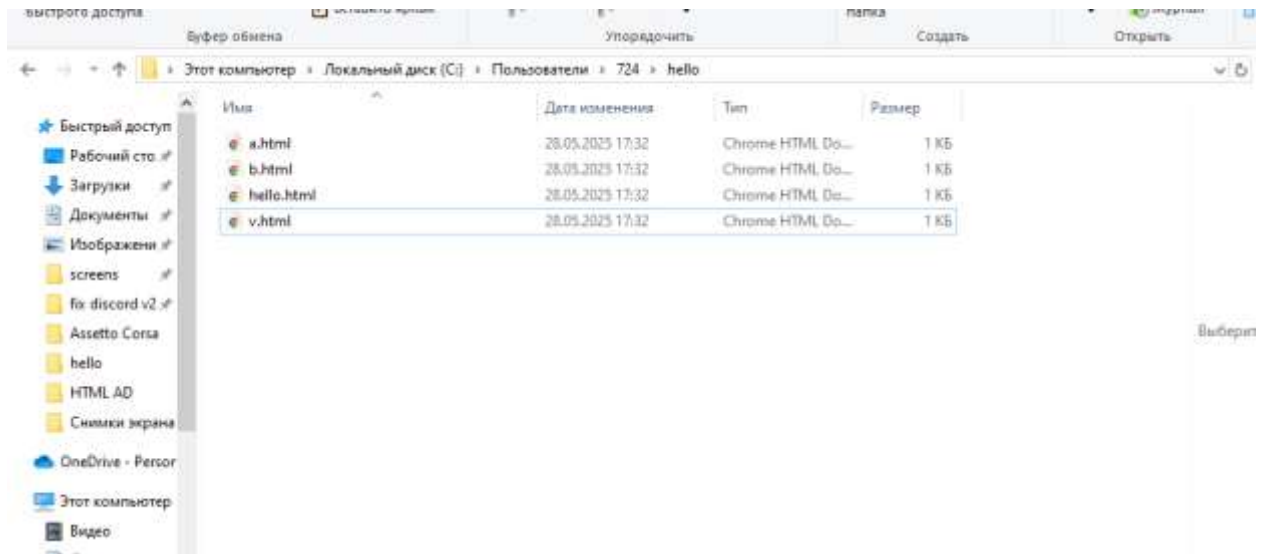
```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git add hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

Индексация и коммит

Создано 3 файла



Индексация и коммит для 2 файлов

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git add a.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git add b.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git commit -m "Changes for a and b"
[master 52ffeff] Changes for a and b
3 files changed, 3 insertions(+), 1 deletion(-)
create mode 100644 a.html
create mode 100644 b.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$
```

Индексация и коммит для третьего файла

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git commit -m "Unrelated for v"
[master ddbd393] Unrelated for v
1 file changed, 1 insertion(+)
create mode 100644 v.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Коммит изменений

Коммит изменений

```
HELEN V@LAPTOP-BPH65Q86 MINGW64 ~/Desktop/hello (master)
$ git add hello.html

HELEN V@LAPTOP-BPH65Q86 MINGW64 ~/Desktop/hello (master)
$ git commit
hint: Waiting for your editor to close the file...
[main 2021-01-31T08:05:41.046Z] update#setState idle
```

Ввод комментария

```
*COMMIT_EDITMSG - Блокнот
Файл Правка Формат Вид Справка
Added h2 tag
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch master
# Changes to be committed:
#   modified:   hello.html
#
```

Коммит-сообщения

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git add hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git commit
hint: Waiting for your editor to close the file... unix2dos: converting f
ile C:/Users/724/hello/.git/COMMIT_EDITMSG to DOS format...
dos2unix: converting file C:/Users/724/hello/.git/COMMIT_EDITMSG to Unix
format...
[master a7a9bcd] Added h2 tag
1 file changed, 2 insertions(+), 1 deletion(-)

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

Проверка состояния

```
Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git status
On branch master
nothing to commit, working tree clean

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ |
```

Изменения, а не файлы

Добавление тегов html и body

```
<> hello.html ●
C: > Users > 724 > hello > <> hello.html > html
1  <html>
2    <body>
3      <h1>Hello,world </h1>
4      <h2>Second line</h2>
5    </body>
6  </html>
```

Добавление тега head

```

C: > Users > 724 > hello > <> hello.html > html > head
1  <html>
2    <head>
3
4    </head>
5    <body>
6      <h1>Hello,world </h1>
7      <h2>Second line</h2>
8    </body>
9  </html>

```

Проверка состояния

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (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

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

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Коммит 1 изменения и проверка состояния

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git add hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git commit -m "Add standart HTML tags"
[master 8ac6b31] Add standart HTML tags
1 file changed, 8 insertions(+), 2 deletions(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Индексация 2 изменения и проверка состояния

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git add .

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |
```

Коммит 2 изменения


```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git commit -m "Add HTML header"
[master 173d451] Add HTML header
1 file changed, 1 insertion(+), 1 deletion(-)

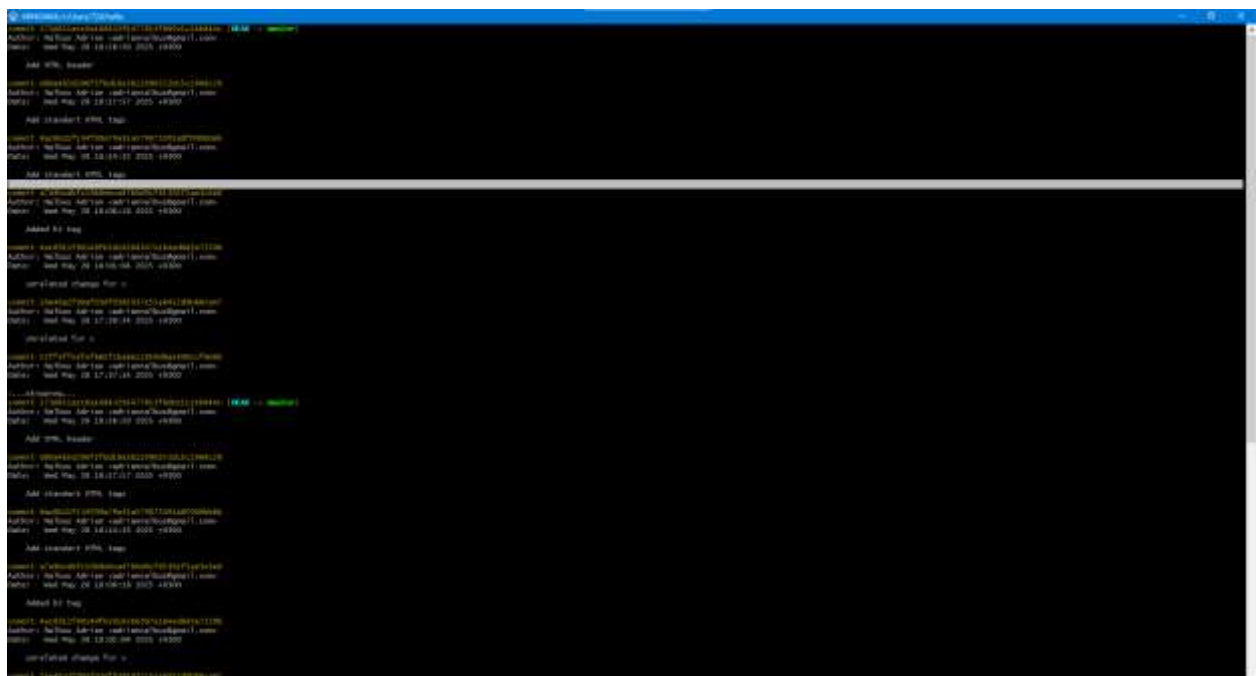
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

Практика номер 2

Борисенко Дмитрий

Работа с Git

История



```

commit 173d451acc0a16843295477813f800c1c14b844c (HEAD -> master)
Author: Dima Adriaev <adriaev@yandex.ru>
Date:   Mon May 18 18:18:02 2020 +0300

    Add HTML header

commit 8ac6b31f534f09a79a35a579073391a0f000bb6b
Author: Dima Adriaev <adriaev@yandex.ru>
Date:   Mon May 18 18:18:02 2020 +0300

    Add standart HTML tags

commit a7a9bcd9cf59b8ebca47b6d9cf85301f5ae3c6e8
Author: Dima Adriaev <adriaev@yandex.ru>
Date:   Mon May 18 18:18:02 2020 +0300

    Added h2 tag

commit 4ec8911f80140fb2d18266307e164ed8d3e7220b
Author: Dima Adriaev <adriaev@yandex.ru>
Date:   Mon May 18 18:18:02 2020 +0300

    unrelated change for v

commit 1be46a2f90af03df9385937c55e6452d9b88ce47
Author: Dima Adriaev <adriaev@yandex.ru>
Date:   Mon May 18 18:18:02 2020 +0300

    Unrelated for v

commit 52ffeff5efef665fcb8e11959d8a5690ccf6b80
Author: Dima Adriaev <adriaev@yandex.ru>
Date:   Mon May 18 18:18:02 2020 +0300

    Changes for a and b

commit ab22b73148f02cdf0da5876d504b3d48bad414d2
Author: Dima Adriaev <adriaev@yandex.ru>
Date:   Mon May 18 18:18:02 2020 +0300

    Добавлен файл hello.html
  
```

Рисунок 2 - Просмотр истории изменений

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git log --pretty=oneline
173d451acc0a16843295477813f800c1c14b844c (HEAD -> master) Add HTML header
d80a4b5d206f2fbd18e2b11090252dc5c1968c29 Add standart HTML tags
8ac6b31f534f09a79a35a579073391a0f000bb6b Add standart HTML tags
a7a9bcd9cf59b8ebca47b6d9cf85301f5ae3c6e8 Added h2 tag
4ec8911f80140fb2d18266307e164ed8d3e7220b unrelated change for v
1be46a2f90af03df9385937c55e6452d9b88ce47 Unrelated for v
52ffeff5efef665fcb8e11959d8a5690ccf6b80 Changes for a and b
ab22b73148f02cdf0da5876d504b3d48bad414d2 Добавлен файл hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

Рисунок 3 - Однострочный формат вывода

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git log --pretty=oneline --max-count=2
173d451acc0a16843295477813f800c1c14b844c (HEAD -> master) Add HTML header
d80a4b5d206f2fbd18e2b11090252dc5c1968c29 Add standart HTML tags

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Рисунок 4 - Вывод последних 2 изменений

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git log --pretty=oneline --since='10 days ago'
173d451acc0a16843295477813f800c1c14b844c (HEAD -> master) Add HTML header
d80a4b5d206f2fbd18e2b11090252dc5c1968c29 Add standart HTML tags
8ac6b31f534f09a79a35a579073391a0f000bb6b Add standart HTML tags
a7a9bcdbfc59b8ebca47b6d9cf85301f5ae3c6e8 Added h2 tag
4ec8911f80140fb2d18266307e164ed8d3e7220b unrelated change for v
1be46a2f90af03df9385937c55e6452d9b88ce47 Unrelated for v
52ffeff5efef665fcba8e11959d8a5690ccf6b80 Changes for a and b
ab22b73148f02cdf0da5876d504b3d48bad414d2 Добавлен файл hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Рисунок 5 - Вывод изменений начиная с определенного времени

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git log --pretty=oneline --until='5 minutes ago'
173d451acc0a16843295477813f800c1c14b844c (HEAD -> master) Add HTML header
d80a4b5d206f2fbd18e2b11090252dc5c1968c29 Add standart HTML tags
8ac6b31f534f09a79a35a579073391a0f000bb6b Add standart HTML tags
a7a9bcdbfc59b8ebca47b6d9cf85301f5ae3c6e8 Added h2 tag
4ec8911f80140fb2d18266307e164ed8d3e7220b unrelated change for v
1be46a2f90af03df9385937c55e6452d9b88ce47 Unrelated for v
52ffeff5efef665fcba8e11959d8a5690ccf6b80 Changes for a and b
ab22b73148f02cdf0da5876d504b3d48bad414d2 Добавлен файл hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Рисунок 6 - Вывод изменений до определенного времени

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git log --pretty=oneline --author='Nalbus Adrian'
173d451acc0a16843295477813f800c1c14b844c (HEAD -> master) Add HTML header
d80a4b5d206f2fbd18e2b11090252dc5c1968c29 Add standart HTML tags
8ac6b31f534f09a79a35a579073391a0f000bb6b Add standart HTML tags
a7a9bcdbfc59b8ebca47b6d9cf85301f5ae3c6e8 Added h2 tag
4ec8911f80140fb2d18266307e164ed8d3e7220b unrelated change for v
1be46a2f90af03df9385937c55e6452d9b88ce47 Unrelated for v
52ffeff5efef665fcba8e11959d8a5690ccf6b80 Changes for a and b
ab22b73148f02cdf0da5876d504b3d48bad414d2 Добавлен файл hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Рисунок 7 - Вывод изменений, внесенных определенным автором

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git log --pretty=oneline --all
173d451acc0a16843295477813f800c1c14b844c (HEAD -> master) Add HTML header
d80a4b5d206f2fbd18e2b11090252dc5c1968c29 Add standart HTML tags
8ac6b31f534f09a79a35a579073391a0f000bb6b Add standart HTML tags
a7a9bcd9cf59b8ebca47b6d9cf85301f5ae3c6e8 Added h2 tag
4ec8911f80140fb2d18266307e164ed8d3e7220b unrelated change for v
1be46a2f90af03df9385937c55e6452d9b88ce47 Unrelated for v
52ffeff5efef665fcb8e11959d8a5690ccf6b80 Changes for a and b
ab22b73148f02cdf0da5876d504b3d48bad414d2 Добавлен файл hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Рисунок 8 - Вывод всех изменений

```

Dima@DESKTOP-KGL7KHH MINGW64 hello (master)
$ git log --all --pretty=format:"%h %cd %s (%an)" --since='12 days ago'
173d451 Wed May 28 18:26:20 2025 +0300 Add HTML header "Dmitry Borisenko"
d80a4b5 Wed May 28 18:17:57 2025 +0300 Add standart HTML tags "Dmitry Borisenko"
8ac6b31 Wed May 28 18:14:33 2025 +0300 Add standart HTML tags "Dmitry Borisenko"
a7a9bcd Wed May 28 18:06:18 2025 +0300 Added h2 tag "Dmitry Borisenko"
4ec8911 Wed May 28 18:01:04 2025 +0300 unrelated change for v "Dmitry Borisenko"
1be46a2 Wed May 28 17:54:51 2025 +0300 Unrelated for v "Dmitry Borisenko"
52ffeff Wed May 28 17:37:14 2025 +0300 Changes for a and b "Dmitry Borisenko"
ab22b73 Wed May 28 17:31:27 2025 +0300 Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 hello (master)
$

```

Рисунок 9 - Использование нескольких параметров

Алиасы

```
Dima@DESKTOP-KGL7KHH MINGW64/hello (master)
$ git config --global alias.co checkout

Dima@DESKTOP-KGL7KHH MINGW64/hello (master)
$ git config --global alias.co commit

Dima@DESKTOP-KGL7KHH MINGW64/hello (master)
$ git config --global alias.co status

Dima@DESKTOP-KGL7KHH MINGW64/hello (master)
$ git config --global alias.co branch

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git config --global alias.co checkout

Dima@DESKTOP-KGL7KHH MINGW64/hello (master)
$ git config --global alias.ci commit

Dima@DESKTOP-KGL7KHH MINGW64/hello (master)
$ git config --global alias.st status

Dima@DESKTOP-KGL7KHH MINGW64/hello (master)
$ git config --global alias.br branch
```

```
Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$ git config --global alias.hist "log --pretty=format:'%h %ad | %s%d [%an]' --graph --date=short"

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git config --global alias.type 'cat-file -t'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git config --global alias.dump 'cat-file -p'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Рисунок 10 - Настройка алиасов для некоторых команд

```
Dima@DESKTOP-KGL7KHH MINGW64 llo (master)
$ git config --global alias.hist "log --pretty=format:'%h %ad | %s%d [%an]' --graph --date=short"

Dima@DESKTOP-KGL7KHH MINGW64 llo (master)
$ git hist
* 173d451 2025-05-28 | Add HTML header (HEAD -> master) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 llo (master)
$ |
```

Рисунок 11 - Выполнение алиаса hist

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ alias gs='git status'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ gs
On branch master
nothing to commit, working tree clean

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$
```

Рисунок 12 - Установка и выполнение алиаса gs

Получение старых версий

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git config --global alias.hist "log --pretty=format:'%h %ad | %s%d [%an]' --graph --date=short"

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git hist
* 173d451 2025-05-28 | Add HTML header (HEAD -> master) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Рисунок 13 - Просмотр хэшей предыдущих версий


```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git checkout ab22b73
Note: switching to 'ab22b73'.

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 ab22b73 Добавлен файл hello.html
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello ((ab22b73...))
$

```

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello ((ab22b73...))
$ cat hello.html
hello world.its my file
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello ((ab22b73...))
$

```

Рисунок 14 - Возвращение к нужной версии и просмотр содержимого файла

Возвращение к последней версии в ветке master

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello ((ab22b73...))
$ git checkout master
Previous HEAD position was ab22b73 Добавлен файл hello.html
Switched to branch 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ cat hello.html
<html>

<head>

</head>

<body>
  <h1>Hello.world </h1>
  <h2>Second line</h2>
</body>

</html>
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Рисунок 15 - Возвращение к последней версии в ветке master

Создание тегов версий

```
724@DESKTOP-H6APTSR MINGW64 ~/hello (master)
$ git tag ver1

724@DESKTOP-H6APTSR MINGW64 ~/hello (master)
$ |
```

Рисунок 16 - Задание тега

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git checkout ver1^
Note: switching to 'ver1^'.

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 d80a4b5 Add standart HTML tags

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((d80a4b5...))
$ |
```

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((d80a4b5...))
$ cat hello.html
<html>

<head>

</head>

<body>
    <h1>Hello,,world </h1>
    <h2>Second line</h2>
</body>

</html>
Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((d80a4b5...))
$ |
```

Рисунок 17 – Переход к предыдущей версии с помощью тега

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((d80a4b5...))
$ git tag ver1-beta

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$
```

Рисунок 18 - Задание тега предыдущей версии

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$ git checkout ver1
Previous HEAD position was d80a4b5 Add standart HTML tags
HEAD is now at 173d451 Add HTML header

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1))
$ git checkout ver1-beta
Previous HEAD position was 173d451 Add HTML header
HEAD is now at d80a4b5 Add standart HTML tags

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$ |

```

Рисунок 19 - Переключение между версиями с помощью тегов

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$ git tag
ver1
ver1-beta

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$ |

```

Рисунок 20 - Просмотр тегов

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$ git hist master --all
* 173d451 2025-05-28 | Add HTML header (tag: ver1, master) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (HEAD, tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$ |

```

Рисунок 21 - Просмотр тегов в логе

Отмена локальных изменений (до индексации)

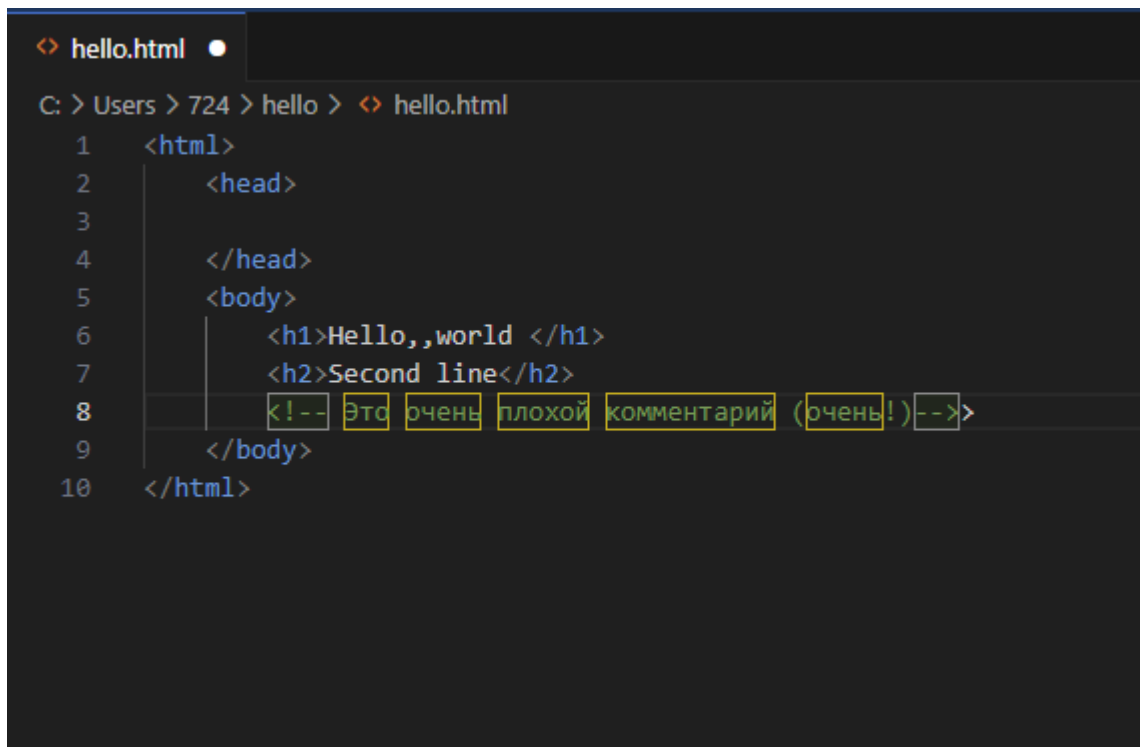
```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello ((ver1-beta))
$ git checkout master
Previous HEAD position was d80a4b5 Add standart HTML tags
Switched to branch 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |

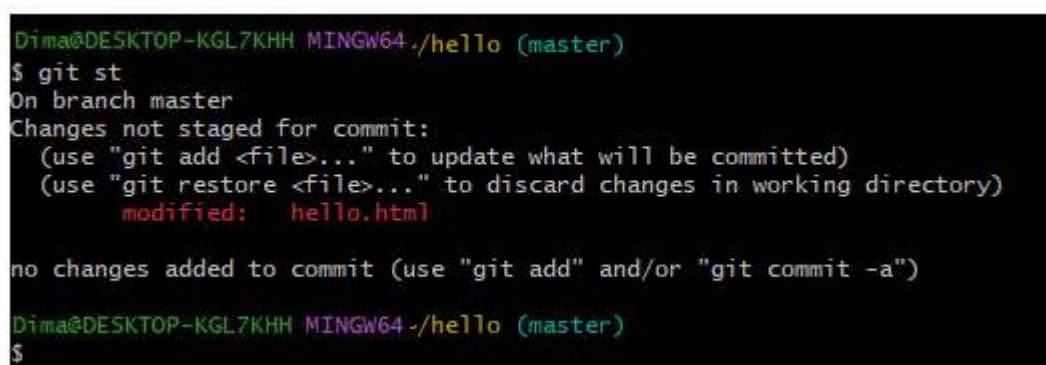
```

Рисунок 22 - Переключение на последний коммит



```
<> hello.html ●
C: > Users > 724 > hello > <> hello.html
1  <html>
2      <head>
3
4      </head>
5      <body>
6          <h1>Hello,,world </h1>
7          <h2>Second line</h2>
8          <!-- Это очень плохой комментарий (очень!) -->
9      </body>
10 </html>
```

Рисунок 23 - Внесение изменения в файл



```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (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:   hello.html

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

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

Рисунок 24 - Не проиндексированное изменение

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git checkout hello.html
Updated 1 path from the index

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git st
On branch master
nothing to commit, working tree clean

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ cat hello.html
<html>

<head>

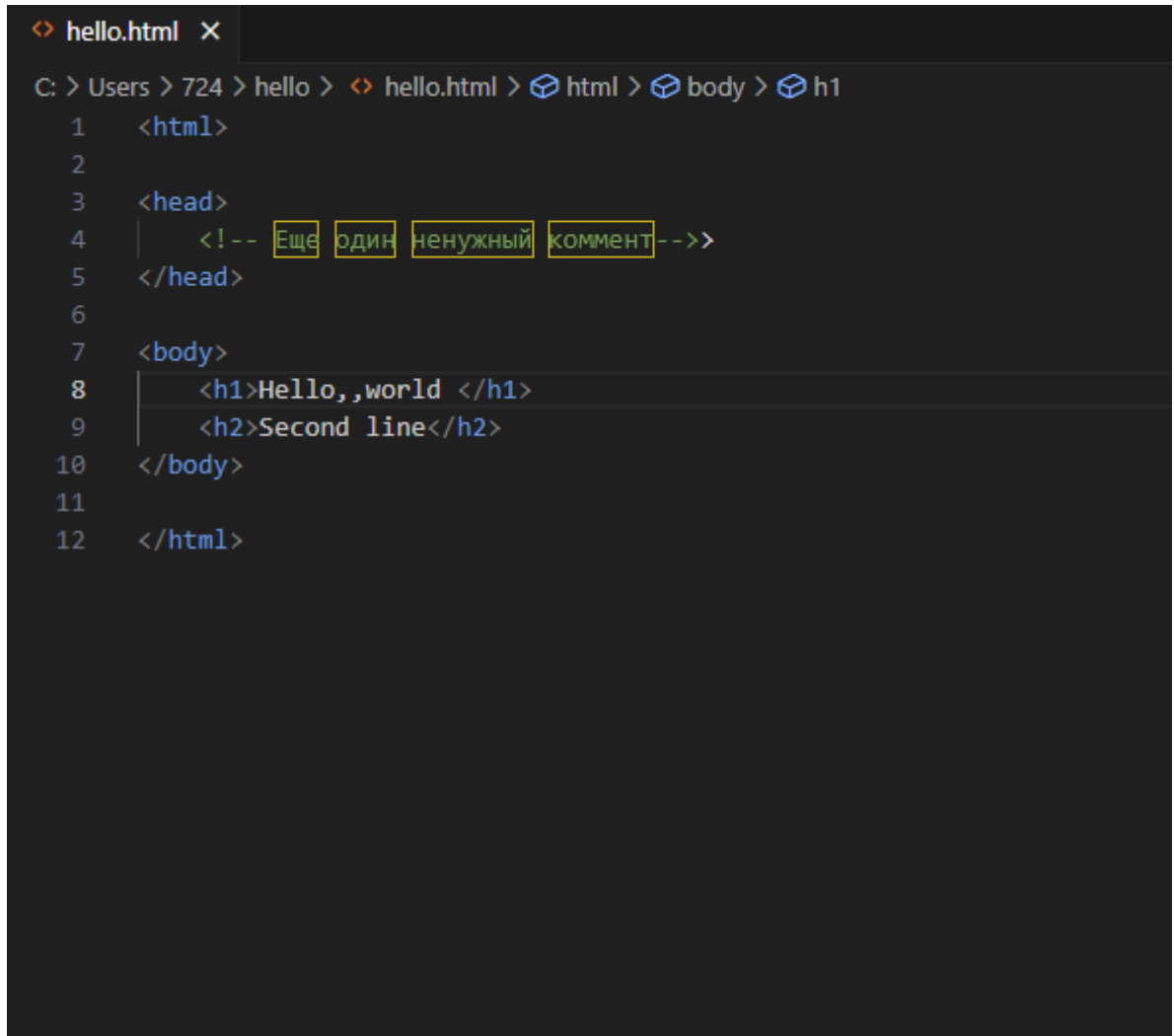
</head>

<body>
    <h1>Hello.world </h1>
    <h2>Second line</h2>
</body>

</html>
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Рисунок 25 - Возвращение к версии

Отмена проиндексированных изменений (перед коммитом)



```
<> hello.html X
C: > Users > 724 > hello > <> hello.html > html > body > h1
1  <html>
2
3  <head>
4  |   <!-- Ещё один ненужный коммент -->>
5  </head>
6
7  <body>
8  |   <h1>Hello,,world </h1>
9  |   <h2>Second line</h2>
10 </body>
11
12 </html>
```

Рисунок 26 - Внесение ненужного изменения



```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git add hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git st
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

Рисунок 27 - Индексация изменения

```

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git reset HEAD hello.html
Unstaged changes after reset:
M      hello.html

Dima@DESKTOP-KGL7KHH MINGW64-./hello (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:   hello.html

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

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ |

```

Рисунок 28 - Очистка буферной зоны

```

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git checkout hello.html
Updated 1 path from the index

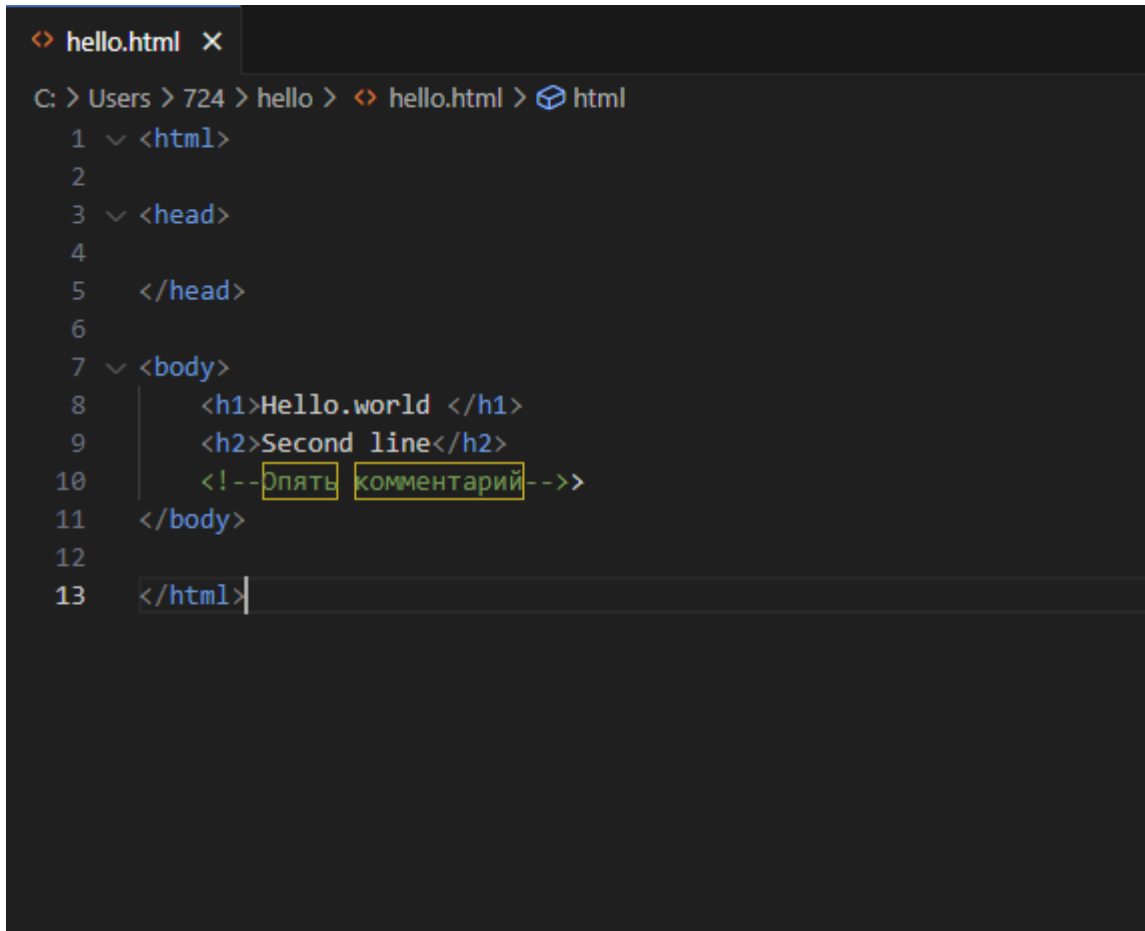
Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git st
On branch master
nothing to commit, working tree clean

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ |

```

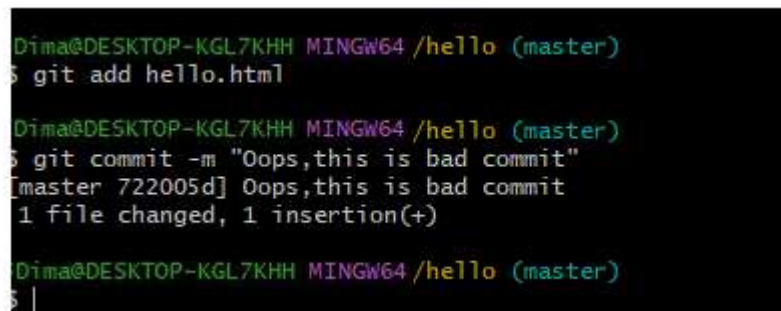
Рисунок 29 - Удаление ненужных изменений

Отмена коммитов



```
<> hello.html X
C: > Users > 724 > hello > <> hello.html > html
1  <html>
2
3  <head>
4
5  </head>
6
7  <body>
8      <h1>Hello.world </h1>
9      <h2>Second line</h2>
10     <!--Дпять комментарий-->
11 </body>
12
13 </html>
```

Рисунок 30 - Внесение изменения в файл

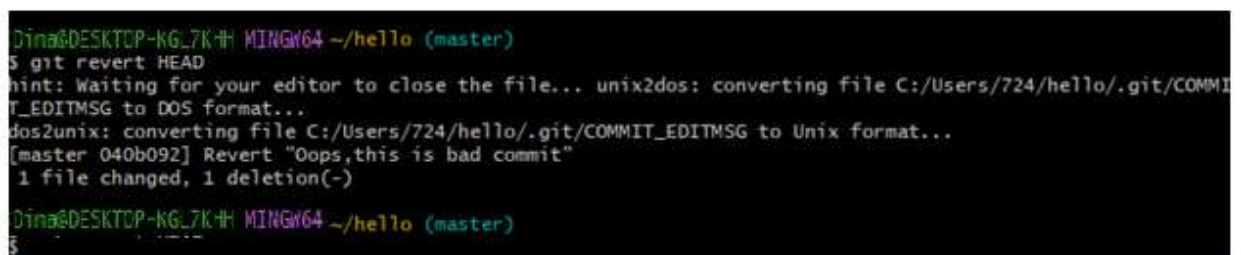


```
Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$ git add hello.html

Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$ git commit -m "Oops,this is bad commit"
[master 722005d] Oops,this is bad commit
1 file changed, 1 insertion(+)

Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$
```

Рисунок 31 - Индексация и коммит



```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git revert HEAD
hint: Waiting for your editor to close the file... unix2dos: converting file C:/Users/724/hello/.git/COMMIT_EDITMSG to DOS format...
dos2unix: converting file C:/Users/724/hello/.git/COMMIT_EDITMSG to Unix format...
[master 040b092] Revert "Oops,this is bad commit"
1 file changed, 1 deletion(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$
```

Рисунок 32 - Выполнение команды git revert

```
COMMIT_EDITMSG X
C: > Users > 724 > hello > .git > COMMIT_EDITMSG
1 Reapply "Oops,this is bad commit"
2
3 This reverts commit 040b092c3e45ecfafb43ae1fcb5cf99c3bb9ac47.
4
5 # Please enter the commit message for your changes. Lines starting
6 # with '#' will be ignored, and an empty message aborts the commit.
7 #
8 # On branch master
9 # Changes to be committed:
10 #   modified:   hello.html
11 #
12
```

Рисунок 33 - Коммит сообщение в редакторе

```
(node:11232) electron: The default of contextIsolation is deprecated and will be changing
from false to true in a future release of Electron. See https://github.com/electron/elect
ron/issues/23506 for more information
[main 2021-02-13T20:03:50.027Z] update#setState checking for updates
[main 2021-02-13T20:03:50.085Z] update#setState idle
[master e04a55f] Revert "Oops, this is bad commit"
1 file changed, 1 deletion(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/Desktop/hello (master)
$ |
```

Рисунок 34 - Редактор закрыт

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git hist
* 8b9aaa5 2025-05-30 | Reapply "Oops,this is bad commit" (HEAD -> master) "Dmitry Borisenko"
* 040b092 2025-05-30 | Revert "Oops,this is bad commit" "Dmitry Borisenko"
* 722005d 2025-05-30 | Oops,this is bad commit "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Рисунок 35 - Все коммиты при просмотре лога


```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git tag oooooops

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git hist
* 8b9aaa5 2025-05-30 | Reapply "Oops,this is bad commit" (HEAD -> master, tag: oooooops) "Dmitry Borisenko"
* 040b092 2025-05-30 | Revert "Oops,this is bad commit" "Dmitry Borisenko"
* 722005d 2025-05-30 | Oops,this is bad commit "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Рисунок 36 - Отметка тегом коммита

```

Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$ git reset --hard ver1
HEAD is now at 173d451 Add HTML header

Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$ git hist
* 173d451 2025-05-28 | Add HTML header (HEAD -> master, tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$

```

Рисунок 37 - Сброс коммита

```

Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$ git hist --all
* 8b9aaa5 2025-05-30 | Reapply "Oops,this is bad commit" (tag: oooooops) "Dmitry Borisenko"
* 040b092 2025-05-30 | Revert "Oops,this is bad commit" "Dmitry Borisenko"
* 722005d 2025-05-30 | Oops,this is bad commit "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (HEAD -> master, tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 /hello (master)
$ |

```

Рисунок 38 - Сброшенные коммиты находятся по-прежнему в репозитории

Удаление тега

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git hist --all
* 8b9aaa5 2025-05-30 | Reapply "Oops,this is bad commit" (tag: oooooops)"Dmitry Borisenko"
* 040b092 2025-05-30 | Revert "Oops,this is bad commit" "Dmitry Borisenko"
* 722005d 2025-05-30 | Oops,this is bad commit "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (HEAD -> master, tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |
```

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git tag -d oooooops
Deleted tag 'ooooops' (was 8b9aaa5)

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git hist --all
* 173d451 2025-05-28 | Add HTML header (HEAD -> master, tag: ver1)"Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

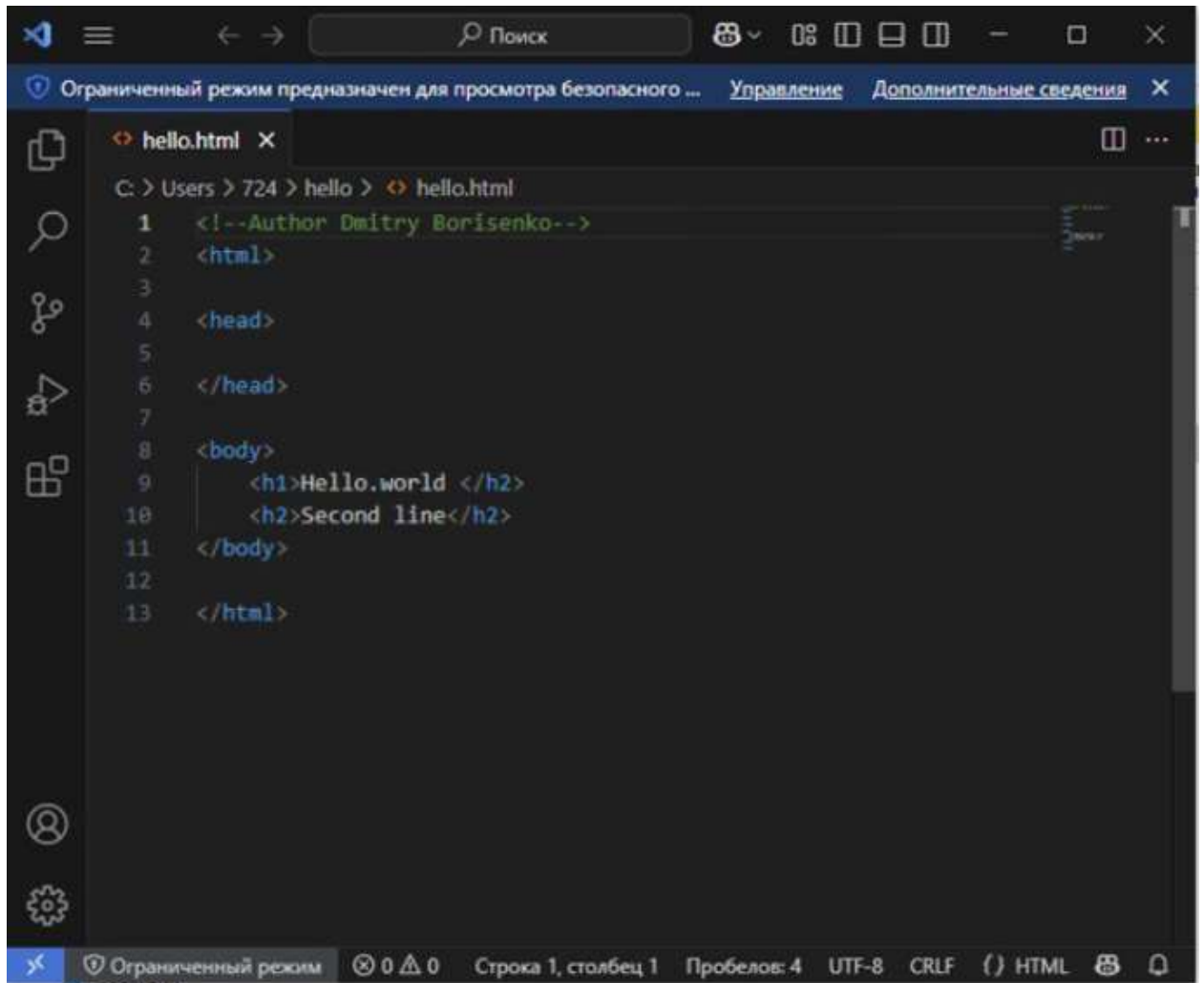
Рисунок 39 - Удаление тега

Практика номер 3

Дмитрий Борисенко

Работа с Git

Внесение изменений в коммиты



```
1 <!--Author Dmitry Borisenko-->
2 <html>
3
4 <head>
5
6 </head>
7
8 <body>
9     <h1>Hello.world </h2>
10    <h2>Second line</h2>
11 </body>
12
13 </html>
```

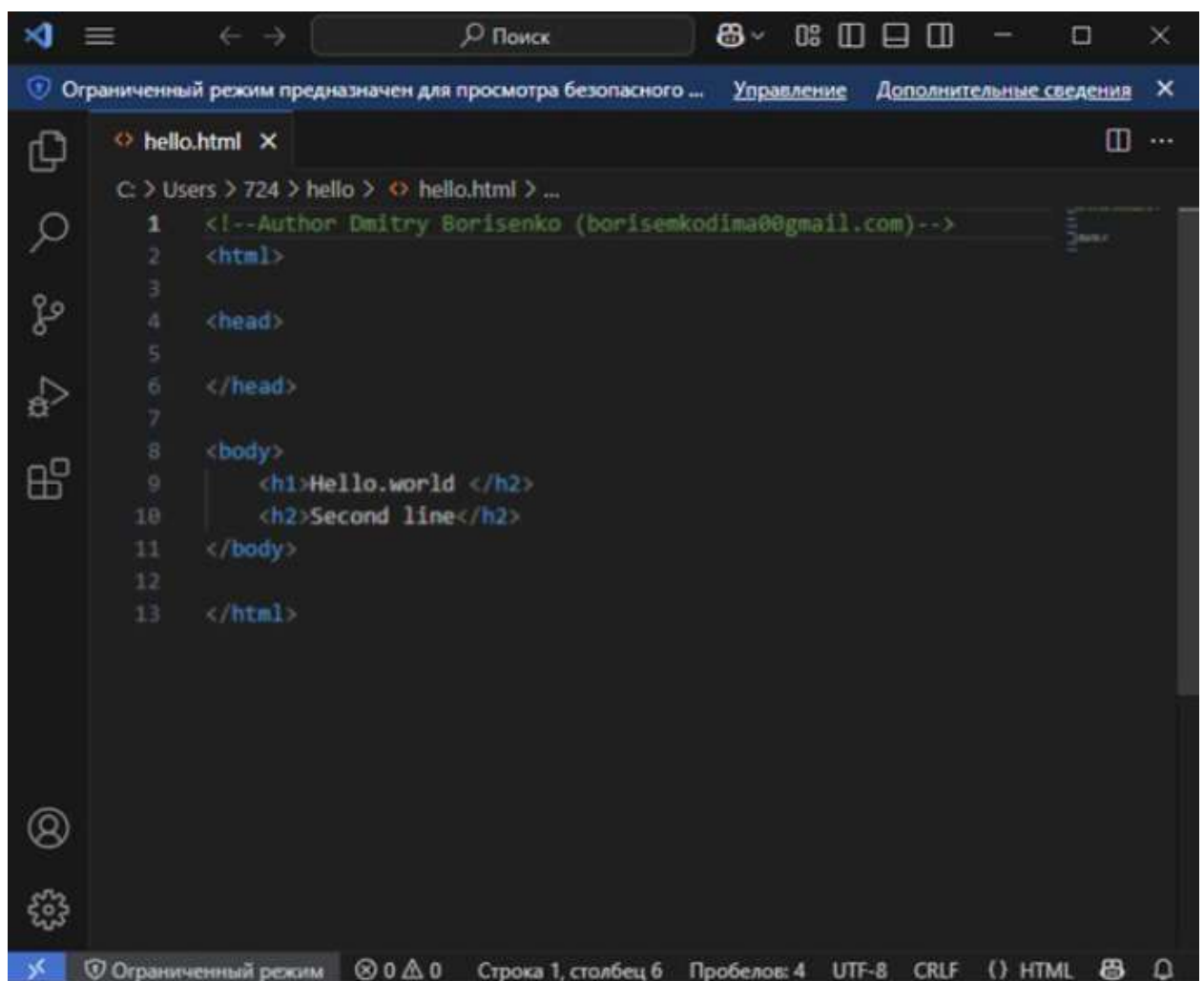
Добавление комментария в файл

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git add hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git commit -m "Add an author comment"
[master f96e3c2] Add an author comment
1 file changed, 1 insertion(+)

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |
```

Индексация и коммит



Добавление электронной почты

```

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git add hello.html

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git commit --amend -m "Add an author/email comment"
[master d70a372] Add an author/email comment
Date: Fri Jun 6 11:07:35 2025 +0300
1 file changed, 1 insertion(+)

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$

```

Индексация и изменение коммита

```

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git hist
* d70a372 2025-06-06 | Add an author/email comment (HEAD -> master) "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ s

```

Последний коммит изменен

Перемещение файлов

```

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ mkdir lib

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git mv hello.html lib

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    hello.html -> lib/hello.html

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ |

```

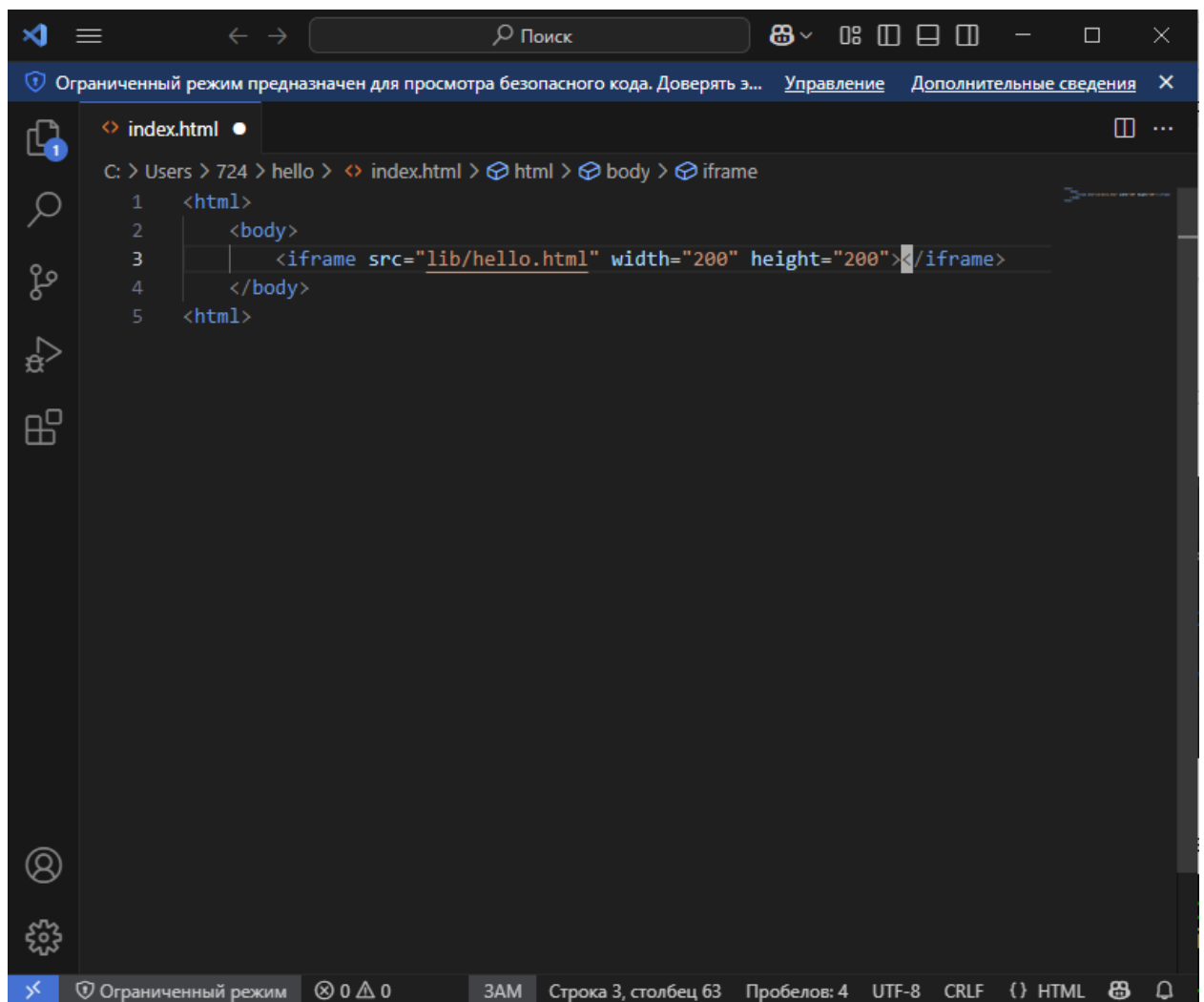
Перемещение файла

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git commit --m "Moved hello.html to lib"
[master c442dfc] Moved hello.html to lib
1 file changed, 0 insertions(+), 0 deletions(-)
rename hello.html => lib/hello.html (100%)

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

Коммит перемещения

Подробнее о структуре



Содержимое файла index.html

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git add index.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git commit -m "Added index.html"
[master 7a2d452] Added index.html
1 file changed, 6 insertions(+)
create mode 100644 index.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |
```

Индексация и коммит



Файл index.html, открытый в браузере

Каталог .git

```
Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ ls -C .git
COMMIT_EDITMSG  ORIG_HEAD  description  index  logs/  refs/
HEAD           config     hooks/       info/  objects/

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ |
```

Содержание каталога .git

```
Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ ls -C .git/objects
04/ 17/ 30/ 48/ 4e/ 69/ 7c/ 85/ 9a/ b2/ c5/ d7/ f2/ pack/
05/ 18/ 3d/ 4b/ 52/ 72/ 80/ 8a/ a7/ be/ c7/ d8/ f9/
0b/ 1b/ 3f/ 4d/ 59/ 7a/ 83/ 8b/ ab/ c4/ d0/ dd/ info/

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ |
```

Содержание каталога objects

```
Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ ls -C .git/objects
04/ 17/ 30/ 48/ 4e/ 69/ 7c/ 85/ 9a/ b2/ c5/ d7/ f2/ pack/
05/ 18/ 3d/ 4b/ 52/ 72/ 80/ 8a/ a7/ be/ c7/ d8/ f9/
0b/ 1b/ 3f/ 4d/ 59/ 7a/ 83/ 8b/ ab/ c4/ d0/ dd/ info/

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ ls -C .git/objects/8a
c6b31f534f09a79a35a579073391a0f000bb6b

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ |
```

Просмотр каталога 8d

```
Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$ cat .git/config
[core]
    repositoryformatversion = 0
    filemode = false
    bare = false
    logallrefupdates = true
    symlinks = false
    ignorecase = true

Dima@DESKTOP-KGL7KHH MINGW64-./hello (master)
$
```

Просмотр файла конфигурации

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ ls .git/refs
heads/ tags/

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ ls .git/refs/heads
master

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ ls .git/refs/tags
ver1 ver1-beta

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ cat .git/refs/tags/ver1
173d451acc0a16843295477813f800c1c14b844c

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Просмотр файлов и веток

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ cat .git/HEAD
ref: refs/heads/master

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

- Содержимое файла HEAD

Работа с объектами git

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git hist --max-count=1
* 7a2d452 2025-06-06 | Added index.html (HEAD -> master) "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$
```

Последний коммит


```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git cat-file -t 7a2d452
commit

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git cat-file -p 7a2d452
tree 80443dc291ebe362a274fc8a47c82ceddd48db39
parent c442dfcc265c8705d9ede156c89738338d779678
author "Dmitry Borisenko" <borisemkodima00@gmail.com> 1749198535 +0300
committer "Dmitry Borisenko" <borisemkodima00@gmail.com> 1749198535 +0300

Added index.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$

```

Просмотр объекта коммита

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git cat-file -t 7a2d452
commit

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git cat-file -p 7a2d452
tree 80443dc291ebe362a274fc8a47c82ceddd48db39
parent c442dfcc265c8705d9ede156c89738338d779678
author "Dmitry Borisenko" <borisemkodima00@gmail.com> 1749198535 +0300
committer "Dmitry Borisenko" <borisemkodima00@gmail.com> 1749198535 +0300

Added index.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$

```

Использование алиасов

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git cat-file -p 80443dc291
100644 blob b21c1990302f2edb63ebb1fc749915543df3a909    a.html
100644 blob b21c1990302f2edb63ebb1fc749915543df3a909    b.html
100644 blob 69afebade1023fc5f2f64ab2b4b65794fb6e7319    index.html
040000 tree ab7c34c2ab2eba78900978575c265ad32305a49d    lib
100644 blob be3c197367591e91a300e447addaec2ef5c4e01f    v.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |

```

Просмотр дерева каталогов

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git cat-file -p ab7c34c2ab
100644 blob 85f13aafa51b5a71b550e1f897e5d775adf112db    hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |

```

Просмотр каталога lib


```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git cat-file -p 85f13aafa51
<!-- Author: "Dnity Eorisenko" 'borisemkodina00@gmail.com'
<html>

<head>

</head>

<body>
  <h1>Hello.world </h1>
  <h2>Second line</h2>
</body>

</html>
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Вывод содержимого файла hello.html

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git hist
* 7a2d452 2025-06-06 | Added index.html (HEAD -> master) "Dmitry Borisenko"
* c442dfc 2025-06-06 | Moved hello.html to lib "Dmitry Borisenko"
* d70a372 2025-06-06 | Add an author/email comment "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta)"Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git cat-file -p ab22b73
tree 59258c2aa8811b6a3d65965de70e3d82b16e6ce1
author "Dmitry Borisenko" <borisemkodina00@gmail.com> 1748442687 +0300
committer "Dmitry Borisenko" <borisemkodina00@gmail.com> 1748442687 +0300

Добавлен файл hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git cat-file -p 59258c2aa
100644 blob 3d3d8688483124c38cfbdc6c92fe58ea9b2450f7    hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git cat-file -p 3d3d868848
hello world.its my file
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Просмотр содержимого файла при первом коммите

Практика номер 4

Борисенко Дмитрий

Работа с Git

Создание ветки

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git checkout -b style
Switched to a new branch 'style'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git status
On branch style
nothing to commit, working tree clean

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ |

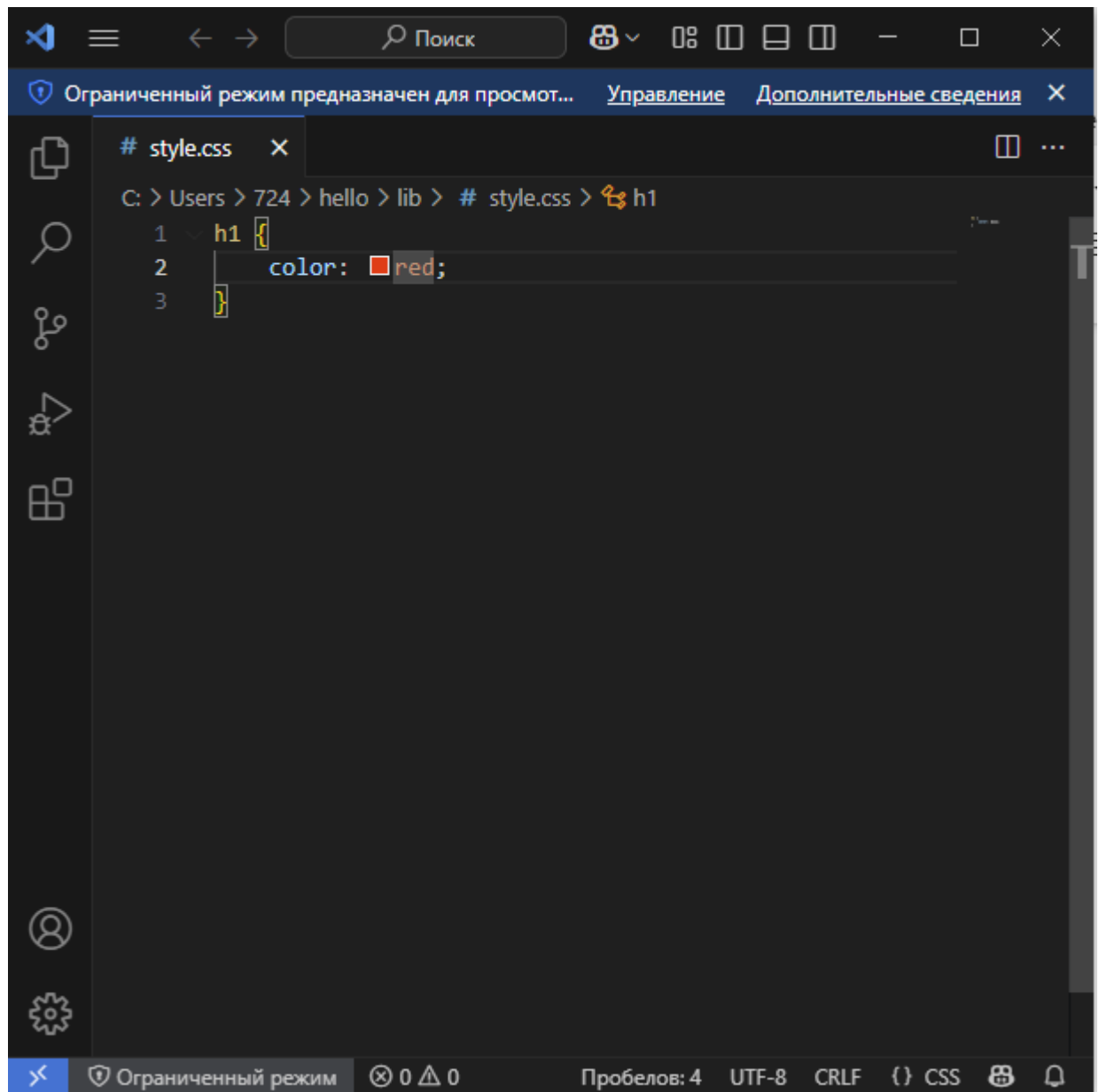
```

Создание новой ветки style

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ touch lib/style.css

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ |
```

Создание файла стилей



Код style.css

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git add lib/style.css

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git commit -m "Added css stylesheet"
[style 1ba004c] Added css stylesheet
1 file changed, 3 insertions(+)
create mode 100644 lib/style.css

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ |

```

Индексация и коммит нового файла

```

hello.html X
C: > Users > 724 > hello > lib > hello.html > html
1  <!-- Author: Dmitry Borisenko (borisemkodima00@gmail.com)
2  <html>
3
4  <head>
5  |   <link rel="stylesheet" type="text/css" media="all" href="style.css">
6  </head>
7
8  <body>
9  |   <h1>Hello.world </h1>
10 |   <h2>The cake is a lie</h2>
11 </body>
12
13 </html>|

```

Изменения в файле hello.html

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git add lib/hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git commit -m "Hello.html uses style.css"
[style 2cada68] Hello.html uses style.css
1 file changed, 2 insertions(+), 2 deletions(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ |

```

Индексация и коммит

```
index.html X
C: > Users > 724 > hello > index.html > html > html
1 <html>
2
3 <head>
4 | <link rel="stylesheet" type="text/css" media="all" href="lib/style.css">
5 </head>
6
7 <body>
8 | <iframe src="lib/hello.html" width="200" height="200"></iframe>
9 </body>
10 </html>
```

Изменения в файле index.html

```
Dima@DESKTOP-KGL7KHH MINGW64 -/hello (style)
$ git add index.html

Dima@DESKTOP-KGL7KHH MINGW64 -/hello (style)
$ git commit -m "Update index.html"
[style 11c139e] Update index.html
1 file changed, 4 insertions(+)

Dima@DESKTOP-KGL7KHH MINGW64 -/hello (style)
$ |
```

Индексация и коммит

Навигация по веткам

```
Dima@DESKTOP-KGL7KHH MINGW64 -/hello (style)
$ git hist --all
* 11c139e 2025-06-06 | Update index.html (HEAD -> style) "Dmitry Borisenko"
* 2cada68 2025-06-06 | Hello.html uses style.css "Dmitry Borisenko"
* 1ba004c 2025-06-06 | Added css stylesheet "Dmitry Borisenko"
* 7a2d452 2025-06-06 | Added index.html (master) "Dmitry Borisenko"
* c442dfc 2025-06-06 | Moved hello.html to lib "Dmitry Borisenko"
* d70a372 2025-06-06 | Add an author/email comment "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 -/hello (style)
$ |
```

Просмотр истории

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git checkout master
Switched to branch 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ cat lib/hello.html
<!-- Author "Dmitry Borisenko" "borisemkodima00@gmail.com"
<html>

<head>

</head>

<body>
    <h1>Hello.world </h1>
    <h2>Second line</h2>
</body>

</html>
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Переключение на ветку master

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git checkout style
Switched to branch 'style'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ cat lib/hello.html
<!-- Author: "Dmitry Borisenko" "borisemkodima00@gmail.com"
<html>

<head>
    <link rel="stylesheet" type="text/css" media="all" href="style.cs
</head>

<body>
    <h1>Hello.world </h1>
    <h2>The cake is a lie</h2>
</body>

</html>
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ |

```

Переключение на ветку style

Изменения в ветке master

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git checkout master
Switched to branch 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Переключение на ветку master


```

i README X
C: > Users > 724 > hello > i README
1 This is the hello world example from the git tutorial|

```

Содержимое файла README

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git add README

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git commit -m "Added README"
[master 8e00c00] Added README
1 file changed, 1 insertion(+)
create mode 100644 README

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Индексация и коммит

Просмотр отличающихся веток

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git hist --all
* 8e00c00 2025-06-06 | Added README (HEAD -> master) "Dmitry Borisenko"
* 11c139e 2025-06-06 | Update index.html (style) "Dmitry Borisenko"
* 2cada68 2025-06-06 | Hello.html uses style.css "Dmitry Borisenko"
* 1ba004c 2025-06-06 | Added css stylesheet "Dmitry Borisenko"
|/
* 7a2d452 2025-06-06 | Added index.html "Dmitry Borisenko"
* c442dfc 2025-06-06 | Moved hello.html to lib "Dmitry Borisenko"
* d70a372 2025-06-06 | Add an author/email comment "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$

```

Дерево коммитов

Слияние

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git checkout style
Switched to branch 'style'

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style)
$ git merge master
```

Переключение на ветку style

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git checkout style
Switched to branch 'style'

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style)
$ git merge master
Merge made by the 'ort' strategy.
 README | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 README

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style)
$ git merge master
Already up to date.
```

Слияние с веткой master

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git hist --all
* 8e00c00 2025-06-06 | Added README (HEAD -> master) "Dmitry Borisenko"
| * 11c139e 2025-06-06 | Update index.html (style) "Dmitry Borisenko"
| * 2cada68 2025-06-06 | Hello.html uses style.css "Dmitry Borisenko"
| * 1ba004c 2025-06-06 | Added css stylesheet "Dmitry Borisenko"
|/
* 7a2d452 2025-06-06 | Added index.html "Dmitry Borisenko"
* c442dfc 2025-06-06 | Moved hello.html to lib "Dmitry Borisenko"
* d70a372 2025-06-06 | Add an author/email comment "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$
```

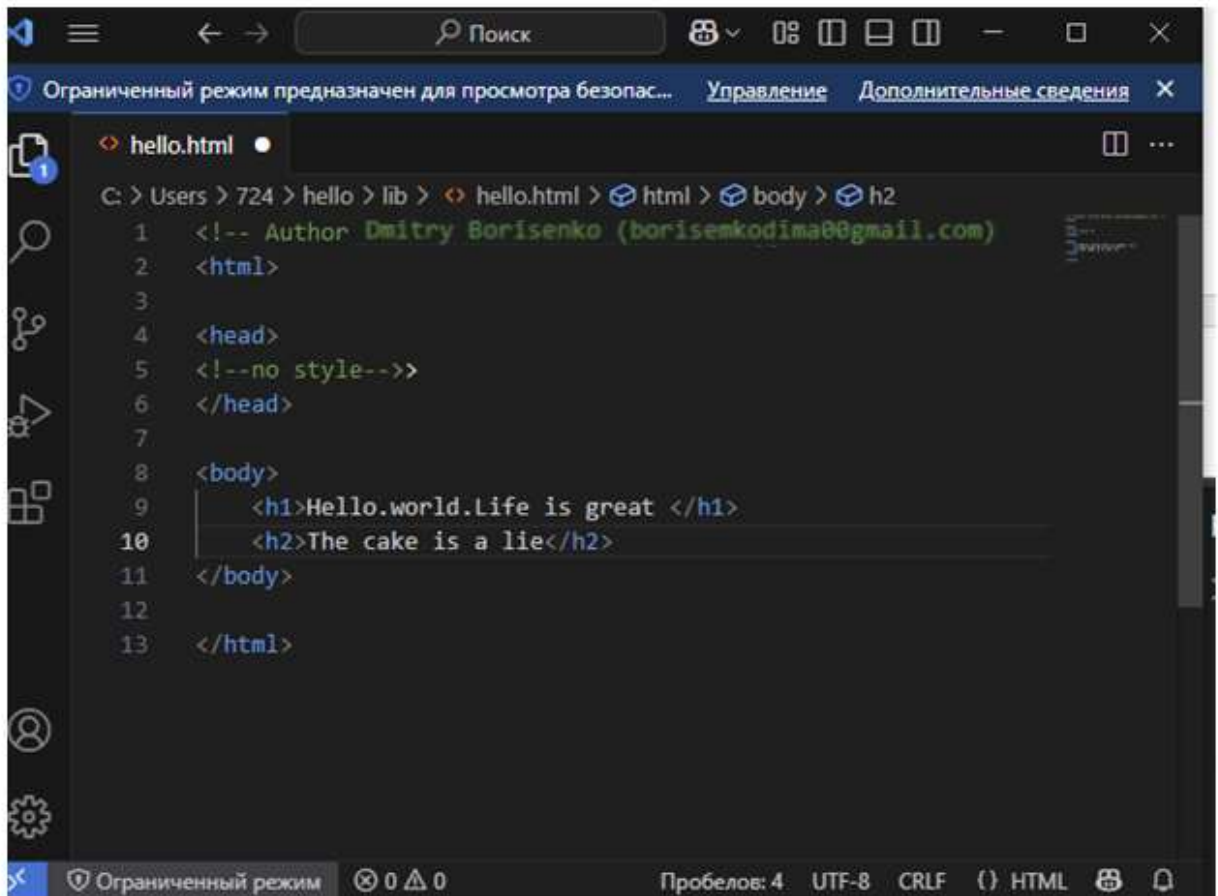
Просмотр истории

Создание конфликта

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (style)
$ git checkout master
Switched to branch 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$
```

Переход в ветку master



Внесение изменений

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git add lib/hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git commit -m "Life is great!"
[master af982dc] Life is great!
1 file changed, 3 insertions(+), 3 deletions(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Индексация и коммит

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git hist --all
* 8e00c00 2025-06-06 | Added README (HEAD -> master) "Dmitry Borisenko"
| * 11c139e 2025-06-06 | Update index.html (style) "Dmitry Borisenko"
| * 2cada68 2025-06-06 | Hello.html uses style.css "Dmitry Borisenko"
| * 1ba004c 2025-06-06 | Added css stylesheet "Dmitry Borisenko"
|/
* 7a2d452 2025-06-06 | Added index.html "Dmitry Borisenko"
* c442dfc 2025-06-06 | Moved hello.html to lib "Dmitry Borisenko"
* d70a372 2025-06-06 | Add an author/email comment "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$

```

Конфликт изменений

Разрешение конфликтов

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git checkout style
Switched to branch 'style'

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style)
$ git merge master
Auto-merging lib/hello.html
CONFLICT (content): Merge conflict in lib/hello.html
Automatic merge failed; fix conflicts and then commit the result.

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style|MERGING)
$

```

Ошибка при слиянии

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style|MERGING)
$ git add lib/hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style|MERGING)
$ git commit -m "Merged master fixed conflict"
[style 8c8d6bb] Merged master fixed conflict

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (style)
$

```

Индексация и коммит

Практика номер 6

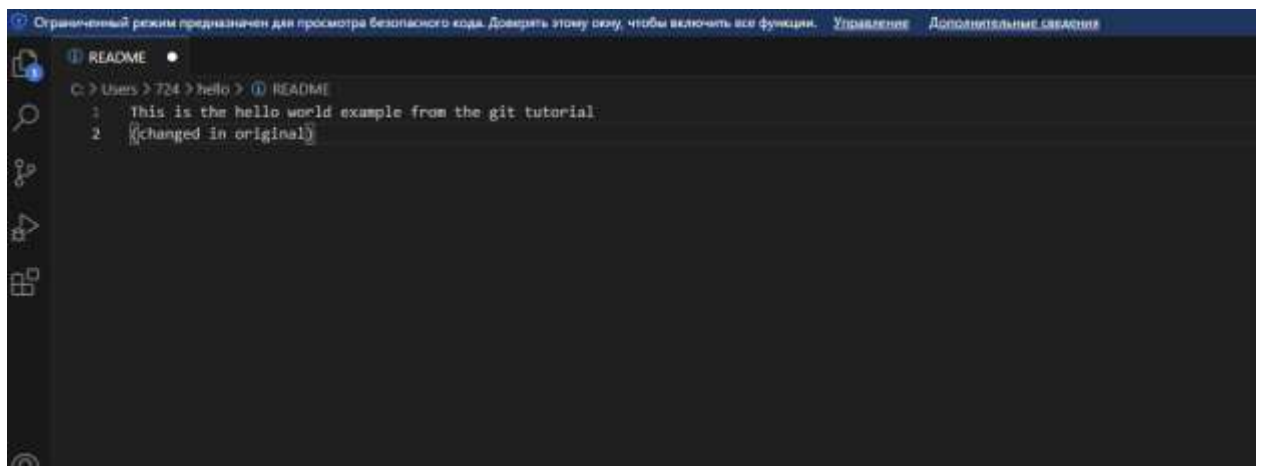
Борисенко Дмитрий

Работа с Git

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ cd ../hello

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Переход в оригинальный репозиторий



Изменения в файле README

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git add README

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git commit -m "Changed README in original repo"
[master 5aa6ee5] Changed README in original repo
1 file changed, 2 insertions(+), 1 deletion(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |
```

Индексация и коммит новых изменений

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ cd ../cloned.hello

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ 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), 339 bytes | 30.00 KiB/s, done.
From C:/Users/724/hello
   af982dc..5aa6ee5  master    -> origin/master

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ |

```

Извлечение изменений

```

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ git hist --all
* 5aa6ee5 2025-06-06 | Changed README in original repo (origin/master, origin/HEAD) "Dmitry Borisenko"
* af982dc 2025-06-06 | Life is great! (HEAD -> master, origin/style) "Dmitry Borisenko"
* 8e00c00 2025-06-06 | Added README "Dmitry Borisenko"
* 7a2d452 2025-06-06 | Added index.html "Dmitry Borisenko"
* c442dfc 2025-06-06 | Moved hello.html to lib "Dmitry Borisenko"
* d70a372 2025-06-06 | Add an author/email comment "Dmitry Borisenko"
* 173d451 2025-05-28 | Add HTML header (tag: ver1) "Dmitry Borisenko"
* d80a4b5 2025-05-28 | Add standart HTML tags (tag: ver1-beta) "Dmitry Borisenko"
* 8ac6b31 2025-05-28 | Add standart HTML tags "Dmitry Borisenko"
* a7a9bcd 2025-05-28 | Added h2 tag "Dmitry Borisenko"
* 4ec8911 2025-05-28 | unrelated change for v "Dmitry Borisenko"
* 1be46a2 2025-05-28 | Unrelated for v "Dmitry Borisenko"
* 52ffeff 2025-05-28 | Changes for a and b "Dmitry Borisenko"
* ab22b73 2025-05-28 | Добавлен файл hello.html "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ |

```

Просмотр истории

```

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ cat README
This is the hello world example from the git tutorial
Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$

```

Вывод содержимого файла README


```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ git merge origin/master
Updating af982dc..5aa6ee5
Fast-forward
 README | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$
```

Слияние изменений

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ cat README
This is the hello world example from the git tutorial
(changed in original)
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ |
```

Вывод содержимого файла README

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ git pull
Already up to date.

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$
```

Команда git pull

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ git branch --track style origin/style
branch 'style' set up to track 'origin/style'.

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ git branch -a
* master
  style
remotes/origin/HEAD -> origin/master
remotes/origin/master
remotes/origin/style

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ git hist --max-count=2
* 5aa6ee5 2025-06-06 | Changed README in original repo (HEAD -> master, origin/master, origin/HEAD) "Dmitry Borisenko"
* af982dc 2025-06-06 | Life is great! (origin/style, style) "Dmitry Borisenko"

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ |
```

Добавление локальной ветки

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ cd ..

Dima@DESKTOP-KGL7KHH MINGW64 - (master)
$ git clone --bare hello hello.git
Cloning into bare repository 'hello.git'...
done.

Dima@DESKTOP-KGL7KHH MINGW64 - (master)
$ ls hello.git
HEAD  config  description  hooks/  info/  objects/  packed-refs  refs/

Dima@DESKTOP-KGL7KHH MINGW64 - (master)
$ s|

```

Создание чистого репозитория

```

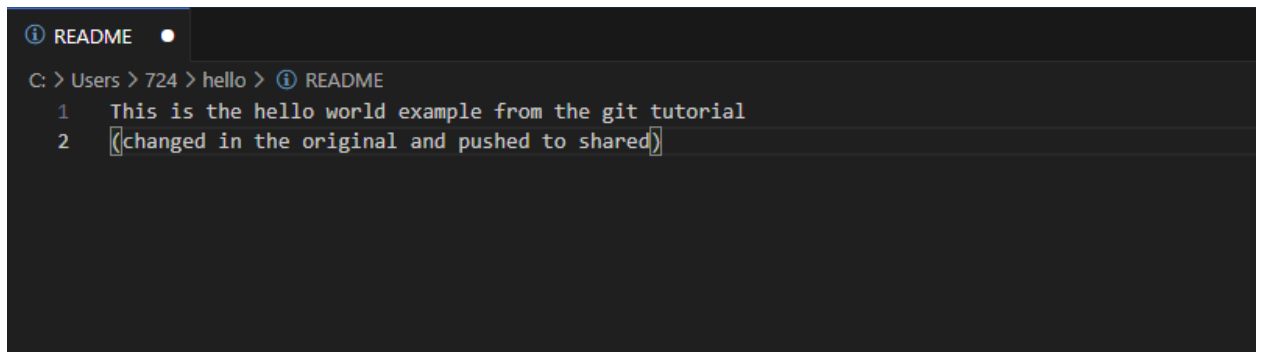
Dima@DESKTOP-KGL7KHH MINGW64 - (master)
$ cd hello

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git remote add shared ../hello.git

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Добавление удаленного репозитория



Внесение изменений в файл

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git checkout master
M README
Already on 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git add README

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git commit -m "Added shared comment to README"
[master cb2caa4] Added shared comment to README
1 file changed, 1 insertion(+), 1 deletion(-)

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$

```

Индексация и коммит


```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git push shared master
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), 371 bytes | 371.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
To ../hello.git
    5aa6ee5..cb2caa4  master -> master

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Отправка изменений в общий репозиторий

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ cd ../cloned.hello

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$

```

Переход в клонированный репозиторий

```

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ git remote add shared ../hello.git

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ git branch --track shared master
branch 'shared' set up to track 'master'.

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ git pull shared 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 (from 0)
Unpacking objects: 100% (3/3), 351 bytes | 87.00 KiB/s, done.
From ../hello
 * branch                master       -> FETCH_HEAD
 * [new branch]          master       -> shared/master
Updating 5aa6ee5..cb2caa4
Fast-forward
 README | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$ cat README
This is the hello world example from the git tutorial
(changed in the original and pushed to shared)
Dima@DESKTOP-KGL7KHH MINGW64 ../cloned.hello (master)
$

```

Команды, извлекающие общие изменения

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ git daemon --verbose --export-all --base-path=.
[9016] Ready to rumble
```

Настройка сервера

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ git clone /C:/Users/724/hello.git network_hello
Cloning into 'network_hello'...
done.

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello (master)
$ cd network_hello

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello (master)
$ ls
README  a.html  b.html  index.html  lib/  v.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello (master)
$
```

Клонирование проекта

Практика номер 7

Дмитрий Брисенко

Работа с Git

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello (master)
$ git clone https://github.com/schacon/ticgit
Cloning into 'ticgit'...
remote: Enumerating objects: 1857, done.
remote: Total 1857 (delta 0), reused 0 (delta 0), pack-reused 1857 (from 1)
Receiving objects: 100% (1857/1857), 334.06 KiB | 1.20 MiB/s, done.
Resolving deltas: 100% (837/837), done.

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello (master)
$ cd ticgit

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git remote
origin

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$
```

Клонирование репозитория и просмотр удаленных репозитория

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git remote -v
origin https://github.com/schacon/ticgit (fetch)
origin https://github.com/schacon/ticgit (push)

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$
```

Просмотр удаленных репозитория с ключом -v

```

Dima@DESKTOP-KGL7KHH MINGW64 ./cloned.hello/network_hello/ticgit (master)
$ git remote add pb https://github.com/paulboone/ticgit

Dima@DESKTOP-KGL7KHH MINGW64 ./cloned.hello/network_hello/ticgit (master)
$ git remoe -v
git: 'remoe' is not a git command. See 'git --help'.

The most similar command is
    remote

Dima@DESKTOP-KGL7KHH MINGW64 ./cloned.hello/network_hello/ticgit (master)
$ git remote -v
origin https://github.com/schacon/ticgit (fetch)
origin https://github.com/schacon/ticgit (push)
pb      https://github.com/paulboone/ticgit (fetch)
pb      https://github.com/paulboone/ticgit (push)

Dima@DESKTOP-KGL7KHH MINGW64 ./cloned.hello/network_hello/ticgit (master)
$

```

Добавление удаленного репозитория

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git fetch pb
remote: Enumerating objects: 43, done.
remote: Counting objects: 100% (22/22), done.
remote: Total 43 (delta 22), reused 22 (delta 22), pack-reused 21 (from 1)
Unpacking objects: 100% (43/43), 5.99 KiB | 122.00 KiB/s, done.
From https://github.com/paulboone/ticgit
 * [new branch]      master    -> pb/master
 * [new branch]      ticgit    -> pb/ticgit

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$

```

Использование имени вместо пути

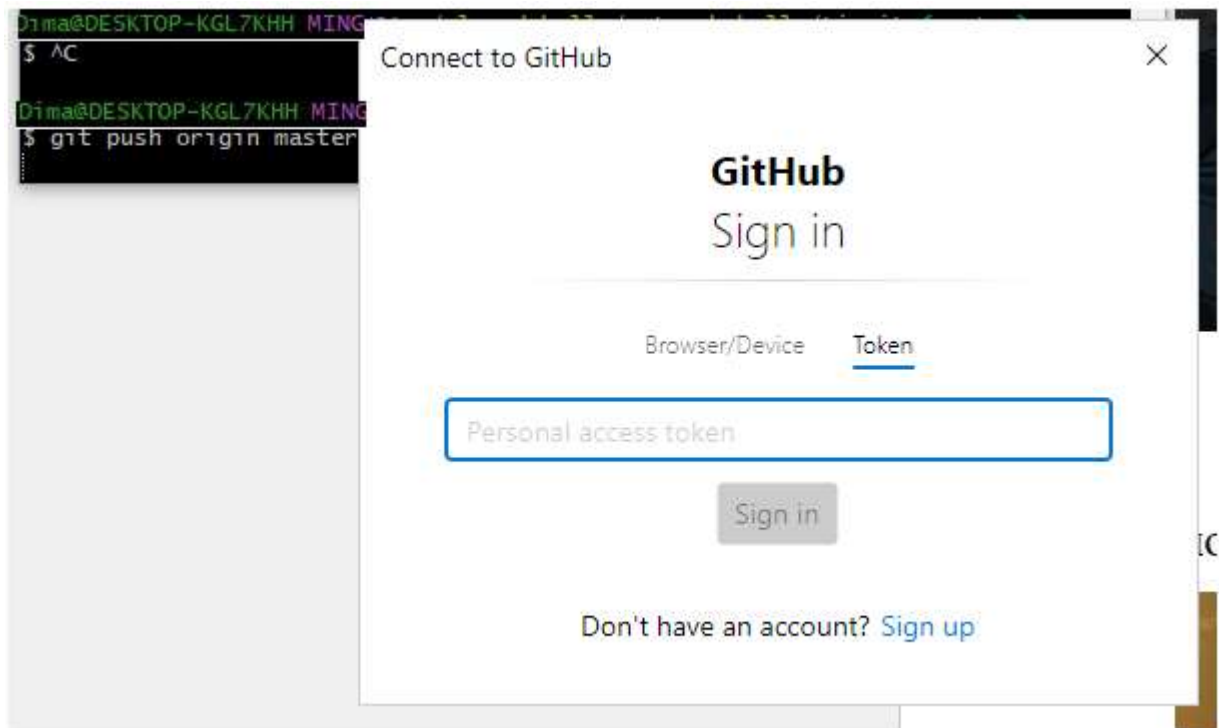
```

Dima@DESKTOP-KGL7KHH MINGW64 ./cloned.hello/network_hello/ticgit (master)
$ git fetch /c/Users/724/cloned.hello
remote: Enumerating objects: 45, done.
remote: Counting objects: 100% (45/45), done.
remote: Compressing objects: 100% (38/38), done.
remote: Total 45 (delta 15), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (45/45), 4.09 KiB | 40.00 KiB/s, done.
From C:/Users/724/cloned.hello
 * branch            HEAD      -> FETCH_HEAD

Dima@DESKTOP-KGL7KHH MINGW64 ./cloned.hello/network_hello/ticgit (master)
$

```

Получение данных из удаленных проектов



Отправка изменений в удаленный репозиторий

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git remote show origin
* remote origin
Fetch URL: https://github.com/schacon/ticgit
Push URL: https://github.com/schacon/ticgit
HEAD branch: master
Remote branches:
  master tracked
  ticgit tracked
Local branch configured for 'git pull':
  master merges with remote master
Local ref configured for 'git push':
  master pushes to master (up to date)

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$
```

Информация об удаленном репозитории

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git remote rename pb paul
Renaming remote references: 100% (4/4), done.

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git remote
origin
paul

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ |
```

Переименование удаленного репозитория

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git remote remove paul
```

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git remote
origin
```

Удаление удаленного репозитория

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git tag
ver1
ver1-beta
ver2

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ |
```

Просмотр тегов

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git tag -a v2.1 -m "My version 2.1"

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ git tag
v2.1
v2/1
ver1
ver1-beta
ver2

Dima@DESKTOP-KGL7KHH MINGW64 ~/cloned.hello/network_hello/ticgit (master)
$ |
```

Создание аннотированной метки


```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git show v2.1-lw
commit cb2caa4ae54a3f96eb9836d5903e1c27fe8f85cd (HEAD -> master, tag: v2.1-lw, shared/master)
Author: "Dmitry Borisenko" <borisemkodima00@gmail.com>
Date:   Fri Jun 6 13:23:58 2025 +0300

    Added shared comment to README

diff --git a/README b/README
index aacc846..e2c93b7 100644
--- a/README
+++ b/README
@@ -1,2 +1,2 @@
- This is the hello world example from the git tutorial
-(changed in original)
\ No newline at end of file
+(changed in the original and pushed to shared)
\ No newline at end of file

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$

```

Просмотр данных тега

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git log --pretty=oneline
cb2caa4ae54a3f96eb9836d5903e1c27fe8f85cd (HEAD -> master, tag: v2.1-lw, shared/master) Added shared comment to README
5aa6ee523ff793de569103d8c016ddc701b939bd Changed README in original repo
af982dc6a8ad6d64fab83e5062ac5c64bdc4ad23 (style) Life is great!
8e00c004de1309d83d31a05596e3aeb55599a047 Added README
7a2d4527052645509a393deac072b5204c38a264 Added index.html
c442dfcc265c8705d9ede156c89738338d779678 Moved hello.html to lib
d70a37205a1115f8877afb5da74bab183313f8db Add an author/email comment
173d451acc0a16843295477813f800c1c14b844c (tag: ver1) Add HTML header
d80a4b5d206f2fbd18e2b11090252dc5c1968c29 (tag: ver1-beta) Add standart HTML tags
8ac6b31f534f09a79a35a579073391a0f000bb6b Add standart HTML tags
a7a9bcd9bfc59b8ebca47b6d9cf85301f5ae3c6e8 Added h2 tag
4ec8911f80140fb2d18266307e164ed8d3e7220b unrelated change for v
1be46a2f90af03df9385937c55e6452d9b88ce47 Unrelated for v
52ffeff5efef665fcba8e11959d8a5690ccf6b80 Changes for a and b
ab22b73148f02cdf0da5876d504b3d48bad414d2 Добавлен файл hello.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$

```

Просмотр истории

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git tag -a ver3 5aa6ee523ff
hint: Waiting for your editor to close the file...

```

Создание тега определенному коммиту

```

C: > Users > 724 > hello > .git > TAG_EDITMSG
1 Tag message1
2 #
3 # Write a message for tag:
4 # ver3
5 # Lines starting with '#' will be ignored.
6

```

Ввод сообщения в текстовом редакторе

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git show ver3
tag ver3
Tagger: "Dmitry Borisenko" <borisemkodima00@gmail.com>
Date:   Fri Jun 6 15:55:24 2025 +0300

Tag message1

commit 5aa6ee523ff793de569103d8c016ddc701b939bd (tag: ver3)
Author: "Dmitry Borisenko" <borisemkodima00@gmail.com>
Date:   Fri Jun 6 13:18:32 2025 +0300

    Changed README in original repo

diff --git a/README b/README
index c8819f4..aacc846 100644
--- a/README
+++ b/README
@@ -1,2 @@
-This is the hello world example from the git tutorial
\ No newline at end of file
+This is the hello world example from the git tutorial
+(changed in original)
\ No newline at end of file

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ |

```

Просмотр данных тега

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (master)
$ git push shared v2.1-lw
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To ../hello.git
* [new tag]         v2.1-lw -> v2.1-lw

```

Отправка тега на удаленный сервер

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git push shared --tags
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 167 bytes | 167.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To ../hello.git
* [new tag]          ver3 -> ver3

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Отправка всех тегов на сервер

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git tag -d v2.1-lw
Deleted tag 'v2.1-lw' (was cb2caa4)

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Удаление тега

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git push shared :refs/tags/v2.1-lw
To ../hello.git
- [deleted]          v2.1-lw

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ |

```

Удаление тегов с сервера

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (v2.1)
$ git checkout v2.1
Already on 'v2.1'

```

Переключение на метку

```

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (master)
$ git checkout -b v2.1
Switched to a new branch 'v2.1'

```

Создание новой ветки

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git config --global alias.co checkout

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git config --global alias.br branch

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git config --global alias.ci commit

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git config --global alias.st status

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ |

```

Задание алиасов

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git config --global alias.unstage 'reset HEAD --'

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ |

```

Создание псевдонима исключения файла из индекса

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git unstage fileA

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git reset HEAD -- fileA

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ |

```

Использование созданного псевдонима

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git config --global alias.last 'log -1 HEAD'

```

Создание алиаса для просмотра последнего коммита

```

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ git last
commit cb2caa4ae54a3f96eb9836d5903e1c27fe8f85cd (HEAD -> v2.1, shared/v2.1, shared/master, master)
Author: "Dmitry Borisenko" <borisemkodima00@gmail.com>
Date:   Fri Jun 6 13:23:58 2025 +0300

    Added shared comment to README

Dima@DESKTOP-KGL7KHH MINGW64 ./hello (v2.1)
$ |

```

Результат работы созданного алиаса


```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (v2.1)
$ git config --global alias.visua '!gitk'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello (v2.1)
$ |
```

Создание псевдонима внешней команды

Практика номер 8

Борисенко Дмитрий

Работа с Git

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (v2.1)
$ git add README test.rb LICENSE

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (v2.1)
$ git commit -m 'Initial commit of my project'
error: pathspec 'commit' did not match any file(s) known to git
error: pathspec 'of' did not match any file(s) known to git
error: pathspec 'my' did not match any file(s) known to git
error: pathspec 'project' did not match any file(s) known to git

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (v2.1)
$ AC

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (v2.1)
$ git commit -m 'Initial commit of my project'
[v2.1 94ce568] Initial commit of my project
3 files changed, 2 deletions(-)
create mode 100644 LICENSE
create mode 100644 test.rb

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (v2.1)
$ |
```

Индексация и коммит 3 файлов

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (v2.1)
$ git branch testing
```

Создание ветки testing

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (v2.1)
$ git checkout testing
D      a.html
D      b.html
D      index.html
D      lib/hello.html
D      v.html
Switched to branch 'testing'
```

Переключение на ветку testing

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (testing)
$ git commit -m 'New changes'
[testing f51dc6b] New changes
5 files changed, 22 deletions(-)
delete mode 100644 a.html
delete mode 100644 b.html
delete mode 100644 index.html
delete mode 100644 lib/hello.html
delete mode 100644 v.html

Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (testing)
$ git commit -m 'New changes'
On branch testing
nothing to commit, working tree clean
```

Индексация и коммит файла test.rb

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (testing)
$ git checkout master
Switched to branch 'master'
```

Переключение на ветку master

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$ git add test.rb

Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$ git commit -a -m 'Another changes'
[master c073ed7] Another changes
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.rb

Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$
```

Еще индексация и коммит test.rb

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$ git checkout -b iss53
Switched to a new branch 'iss53'

Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (iss53)
$
```

Создание и переключение на ветку iss53


```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (iss53)
$ git add index.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (iss53)
$ git commit -m 'Added html'
On branch iss53
nothing to commit, working tree clean
```

Индексация и коммит файла index.html

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (iss53)
$ git checkout master
Switched to branch 'master'
```

Переключение на ветку master

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (master)
$ git add index.html

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (master)
$ git commit -a -m 'Fixed the broken email address'
On branch master
nothing to commit, working tree clean
```

Индексация и коммит index.html на ветке hotfix

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (hotfix)
$ git checkout master
Switched to branch 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (master)
$ git merge hotfix
Already up to date.
```

Переключение на ветку master и объединение с веткой hotfix

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (master)
$ git branch -d hotfix
Deleted branch hotfix (was c073ed7).
```

Удаление ветки hotfix

```
Dima@DESKTOP-KGL7KHH MINGW64 ~/hello_two (master)
$ git commit -a -m 'Finished the new footer'
On branch master
nothing to commit, working tree clean
```

Индексация и коммит index.html на ветке iss53

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$ git checkout master
Already on 'master'

Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$ git merge iss53
Already up to date.
```

Слияние веток

```
Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$ git branch -d iss53
Deleted branch iss53 (was c073ed7).

Dima@DESKTOP-KGL7KHH MINGW64 ./hello_two (master)
$
```

Удаление ветки iss53