Лабораторная работа 1 работа с git

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1
Подготовка

```
(base) hobo@MSI:~$ git config --global core.autocrlf input
(base) hobo@MSI:~$ git config --global core.safecrlf true
(base) hobo@MSI:~$ git config --global core.quotepath off
(base) hobo@MSI:~$
```

2 создание проекта

3 внесение изменений


```
(base) hobo@MSI:~/hello$ vi hello.html
(base) hobo@MSI:~/hello$ 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")
(base) hobo@MSI:~/hello$ git add hello.html
(base) hobo@MSI:~/hello$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

(base) hobo@MSI:~/hello$
```

4 индексация изменений


```
(base) hobo@MSI:~/hello$ git commit
[master 347e069] «Added h1 tag»
 1 file changed, 2 insertions(+), 1 deletion(-)
(base) hobo@MSI:~/hello$ git commit
On branch master
nothing to commit, working tree clean
(base) hobo@MSI:~/hello$ git status
On branch master
nothing to commit, working tree clean
(base) hobo@MSI:~/hello$
```

```
nothing to commit, working tree clean
(base) hobo@MSI:~/hello$ vi hello.html
(base) hobo@MSI:~/hello$ git add hello.html
(base) hobo@MSI:~/hello$ vi hello.html
(base) hobo@MSI:~/hello$ git status
On branch master
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
```

```
no changes added to commit (use "git add" and/or "git commit -a"
(base) hobo@MSI:~/hello$ git add .
(base) hobo@MSI:~/hello$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

(base) hobo@MSI:~/hello$
```

```
(base) hobo@MSI:~/hello$ 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")
(base) hobo@MSI:~/hello$
```

```
(base) hobo@MSI:~/hello$ git commit -m "Added HTML header"
[master 9ac09de] Added HTML header
 1 file changed, 6 insertions(+)
(base) hobo@MSI:~/hello$
```

4 индексация изменений

4 индексация изменений

```
bash: syntax error near unexpected token `newline'
(base) hobo@MSI:~/hello$ git tag v1
(base) hobo@MSI:~/hello$ 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 b31ced7 Added standard HTML page tags
(base) hobo@MSI:~/hello$
```

```
HEAD is now at b31ced7 Added standard HTML page tags
(base) hobo@MSI:~/hello$ cat hello.html
<html>
<body>
<h1>Hello, World!</h1>
</body>
</html>
(base) hobo@MSI:~/hello$
```

```
</html>
(base) hobo@MSI:~/hello$ git tag v1-beta
(base) hobo@MSI:~/hello$
```

```
(base) hobo@MSI:~/hello$ git tag v1-beta
(base) hobo@MSI:~/hello$ git checkout v1
Previous HEAD position was b31ced7 Added standard HTML page tags
HEAD is now at 9ac09de Added HTML header
(base) hobo@MSI:~/hello$ git checkout v1-beta
Previous HEAD position was 9ac09de Added HTML header
HEAD is now at b31ced7 Added standard HTML page tags
(base) hobo@MSI:~/hello$
```

4
индексация
изменений

```
(base) hobo@MSI:~/hello$ git tag
v1
v1-beta
(base) hobo@MSI:~/hello$ git log master --all
commit 9ac09deec9459a8978e8d9b0b2a38401377348da (tag: v1, master)
Author: PetrushovDmitry <petrushov39@bk.ru>
Date:   Sat Apr 13 04:31:39 2024 +0300

    Added HTML header

commit b31ced7939a9528c3e46e256fc755f85cbd39fd4 (HEAD, tag: v1-beta)
Author: PetrushovDmitry <petrushov39@bk.ru>
Date:   Sat Apr 13 04:29:45 2024 +0300

    Added standard HTML page tags
```

5 отмена
локальных
измнений

```
(base) hobo@MSI:~/hello$ git checkout hello.html
Updated 1 path from the index
(base) hobo@MSI:~/hello$ git status
On branch master
nothing to commit, working tree clean
(base) hobo@MSI:~/hello$ cat hello.html




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

```
(base) hobo@MSI:~/hello$ vi hello.html
(base) hobo@MSI:~/hello$ 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")
(base) hobo@MSI:~/hello$
```

6 отмена
проиндексированных
изменений

```
</html>
(base) hobo@MSI:~/hello$ vi hello.html
(base) hobo@MSI:~/hello$ git add hello.html
(base) hobo@MSI:~/hello$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

(base) hobo@MSI:~/hello$
```

```
(base) hobo@MSI:~/hello$ git reset HEAD hello.html
Unstaged changes after reset:
M       hello.html
(base) hobo@MSI:~/hello$
```

```
(base) hobo@MSI:~/hello$ git checkout hello.html
Updated 1 path from the index
(base) hobo@MSI:~/hello$ git status
On branch master
nothing to commit, working tree clean
(base) hobo@MSI:~/hello$
```

7 отмена коммитов

```
(base) hobo@MSI:~/hello$ vi hello.html
(base) hobo@MSI:~/hello$ git add hello.html
(base) hobo@MSI:~/hello$ git commit -m "Oops, we didn't want this commit"
[master 798a5ec] Oops, we didn't want this commit
 1 file changed, 12 insertions(+), 5 deletions(-)
(base) hobo@MSI:~/hello$ git revert HEAD
[master 908ecc2] Revert "Oops, we didn't want this commit"
 1 file changed, 5 insertions(+), 12 deletions(-)
(base) hobo@MSI:~/hello$
```

```
(base) hobo@MSI:~/hello$ git log
commit 908ecc2fd9e020f5ef62ca55ea1bc51de2b16480 (HEAD -> master)
Author: PetrushovDmitry <petrushov39@bk.ru>
Date:   Sat Apr 13 04:51:15 2024 +0300

    Revert "Oops, we didn't want this commit"

    This reverts commit 798a5ec64c5f1c85b35a80ad92882bf819fb0720.

commit 798a5ec64c5f1c85b35a80ad92882bf819fb0720
Author: PetrushovDmitry <petrushov39@bk.ru>
Date:   Sat Apr 13 04:51:04 2024 +0300

    Oops, we didn't want this commit

commit 9ac09deec9459a8978e8d9b0b2a38401377348da (tag: v1)
Author: PetrushovDmitry <petrushov39@bk.ru>
Date:   Sat Apr 13 04:31:39 2024 +0300
```

10 внесение
изменений
в коммиты

```
1 file changed, 1 insertion(+), 1 deletion(-)
(base) hobo@MSI:~/hello$ vi hello.html
(base) hobo@MSI:~/hello$ git add hello.html
(base) hobo@MSI:~/hello$ git commit --amend -m "Add an author/email comment"
[master 7a4cd24] Add an author/email comment
 Date: Sat Apr 13 04:56:27 2024 +0300
 1 file changed, 1 insertion(+), 1 deletion(-)
(base) hobo@MSI:~/hello$ git log
commit 7a4cd24042d1a7822b2f9699ae1aee03b3a01cea (HEAD -> master)
Author: PetrushovDmitry <petrushov39@bk.ru>
Date:   Sat Apr 13 04:56:27 2024 +0300

    Add an author/email comment
```

11
перемещение
файлов

```
Date:    Sat Apr 13 04:31:39 2024 +0300
(base) hobo@MSI:~/hello$ mkdir lib
(base) hobo@MSI:~/hello$ git mv hello.html lib
(base) hobo@MSI:~/hello$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    hello.html -> lib/hello.html

(base) hobo@MSI:~/hello$
```

13
подробнее
о структуре

```
(base) hobo@MSI:~/hello$ touch index.html
(base) hobo@MSI:~/hello$ vi index.html
(base) hobo@MSI:~/hello$ git add index.html
(base) hobo@MSI:~/hello$ git commit -m "Added index.html."
[master abe50f4] Added index.html.
 2 files changed, 5 insertions(+)
 create mode 100644 index.html
 rename hello.html => lib/hello.html (100%)
(base) hobo@MSI:~/hello$
```

14 git
внутри:
каталог .git

```
(base) hobo@MSI:~/hello$ ls -C .git/objects/<ab>
bash: syntax error near unexpected token `newline'
(base) hobo@MSI:~/hello$ git log --max-count=1
commit abe50f419ce724f33134e46e39d880585c232a61 (HEAD -> master)
Author: PetrushovDmitry <petrushov39@bk.ru>
Date:   Sat Apr 13 05:02:11 2024 +0300

    Added index.html.
(base) hobo@MSI:~/hello$
```