



Лабораторная работа номер 1

Выполнил:
Рахмедов Орун



Цель работы

Вспомнить основы работы с системой контроля версий git.

Ход работы

```
PS C:\Users\User> git config --global user.name "Orun"  
PS C:\Users\User> git config --global user.email "orunrahvedow@gmail.com"  
PS C:\Users\User> git config --global core.autocrlf true  
PS C:\Users\User> git config --global core.safecrlf true  
PS C:\Users\User> git config --global core.quotePath off  
PS C:\Users\User> mkdir hello
```

Ход работы

```
PS C:\Users\User> mkdir hello
```

```
Katanor: C:\Users\User
```

Mode		LastWriteTime		Length	Name
d----		10.02.2024	21:21		hello

```
PS C:\Users\User> cd hello
```

```
PS C:\Users\User\hello> git init
```

```
Initialized empty Git repository in C:/Users/User/hello/.git/
```

```
PS C:\Users\User\hello> New-Item hello.html
```

```
Katanor: C:\Users\User\hello
```

Mode		LastWriteTime		Length	Name
-a----		10.02.2024	21:23	0	hello.html

```
PS C:\Users\User\hello> git add hello.html
```

```
PS C:\Users\User\hello> git commit -m "Initial Commit"
```

```
[master (root-commit) 559c95d] Initial Commit
```

```
1 file changed, 0 insertions(+), 0 deletions(-)
```

```
create mode 100644 hello.html
```

```
PS C:\Users\User\hello> git status
```

```
On branch master
```

```
nothing to commit, working tree clean
```

Ход работы

```
PS C:\Users\User\hello> git add hello.html
PS C:\Users\User\hello> git commit -m "Added standard HTML page tags"
[master 79ac6a7] Added standard HTML page tags
 1 file changed, 8 insertions(+)
PS C:\Users\User\hello> git add hello.html
PS C:\Users\User\hello> git commit -m "Added HTML header"
[master 6197644] Added HTML header
 1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\User\hello> ^C
PS C:\Users\User\hello> git log
commit 619764401430fa239bdb7a3e6bcbd1be6b394179 (HEAD -> master)
Author: 0run <orunrahvedow@gmail.com>
Date:   Sat Feb 10 21:29:50 2024 +0300

    Added HTML header

commit 79ac6a7fa8f878d990967a9cb4b92b8c3f341540
Author: 0run <orunrahvedow@gmail.com>
Date:   Sat Feb 10 21:29:07 2024 +0300

    Added standard HTML page tags

commit 559c95d149b97ba6bc029d7a1df3302bd17e0a5c
Author: 0run <orunrahvedow@gmail.com>
Date:   Sat Feb 10 21:23:57 2024 +0300

    Initial Commit

PS C:\Users\User\hello> git checkout 559c95d149b97ba6bc029d7a1df3302bd17e0a5c
Note: switching to '559c95d149b97ba6bc029d7a1df3302bd17e0a5c'.

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:
```

Ход работы

```
PS C:\Users\User\hello> git tag v1
PS C:\Users\User\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 79ac6a7 Added standard HTML page tags
```

```
PS C:\Users\User\hello> git tag v1.1
```

Ход работы

```
PS C:\Users\User\hello> git checkout v1
Previous HEAD position was 79ac6a7 Added standard HTML page tags
HEAD is now at 6197644 Added HTML header
PS C:\Users\User\hello> git checkout v1-beta
Previous HEAD position was 6197644 Added HTML header
HEAD is now at 79ac6a7 Added standard HTML page tags
PS C:\Users\User\hello> git tag
v1
v1-beta
PS C:\Users\User\hello> git log master --all
commit 619764401438fa239bdb7a3e6bcbdd1be6b394179 (tag: v1, master)
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:29:50 2024 +0300

    Added HTML header

commit 79ac6a7fa8f878d990967a9cb4b92b8c3f341540 (HEAD, tag: v1-beta)
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:29:07 2024 +0300

    Added standard HTML page tags

commit 559c95d149b97ba6bc029d7a1df3302bd17e0a5c
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:23:57 2024 +0300

    Initial Commit
```

Ход работы

```
PS C:\Users\User\hello> git checkout master
Previous HEAD position was 79ac6a7 Added standard HTML page tags
Switched to branch 'master'
PS C:\Users\User\hello> git checkout hello.html
Updated 1 path from the index
PS C:\Users\User\hello> git status
On branch master
nothing to commit, working tree clean
PS C:\Users\User\hello> cat hello.html
<!DOCTYPE html>
<html lang="en">
<head></head>
<body>
  <h1>Hello, World!</h1>
</body>
```

```
PS C:\Users\User\hello> git checkout master
Previous HEAD position was 79ac6a7 Added standard HTML page tags
Switched to branch 'master'
PS C:\Users\User\hello> git checkout hello.html
Updated 1 path from the index
PS C:\Users\User\hello> git status
On branch master
nothing to commit, working tree clean
PS C:\Users\User\hello> cat hello.html
<!DOCTYPE html>
<html lang="en">
<head></head>
<body>
  <h1>Hello, World!</h1>
</body>
```


Ход работы

```
z:\runner
S C:\Users\User\hello> git add hello.html
S C:\Users\User\hello> git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

S C:\Users\User\hello> git reset HEAD hello.html
Unstaged changes after reset:
M       hello.html
S C:\Users\User\hello> git checkout hello.html
Updated 1 path from the index
S C:\Users\User\hello> git status
On branch master
nothing to commit, working tree clean
S C:\Users\User\hello> git add hello.html
S C:\Users\User\hello> git commit -m "Oops, we didn't want this commit"
master ac7efbb] Oops, we didn't want this commit
1 file changed, 5 insertions(+), 5 deletions(-)
S C:\Users\User\hello> git revert HEAD
master 79ee3e4] Revert "Oops, we didn't want this commit"
1 file changed, 5 insertions(+), 5 deletions(-)
S C:\Users\User\hello> git log
commit 79ee3e495b9ea2e7202435d80cd7e2bf8cf67bf1 (HEAD -> master)
author: 0run <orunrahvedow@gmail.com>
date:   Sat Feb 10 21:34:59 2024 +0300

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

    This reverts commit ac7efbb57f726000f971a4a2743279053799306e.

commit ac7efbb57f726000f971a4a2743279053799306e
author: 0run <orunrahvedow@gmail.com>
date:   Sat Feb 10 21:34:51 2024 +0300

    Oops, we didn't want this commit

commit 619764401430fa239bdb7a3e6bcbdd1be6b394179 (tag: v1)
author: 0run <orunrahvedow@gmail.com>
date:   Sat Feb 10 21:29:50 2024 +0300

    Added file hello.html

commit 79ac6a7fa2f878d990967a9cb4b92b8c3f341540 (tag: v1-beta)
author: 0run <orunrahvedow@gmail.com>
date:   Sat Feb 10 21:29:07 2024 +0300
```

0run peredat

Ход работы

```
commit 79ee3e495b9ea2e7202435d80cd7e2bf8cf67bf1 (tag: oops)
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:34:59 2024 +0300

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

    This reverts commit ac7efbb57f726000f971a4a2743279053799306e.

commit ac7efbb57f726000f971a4a2743279053799306e
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:34:51 2024 +0300

    Oops, we didn't want this commit

commit 619764401430fa239bdb7a3e6bcbdd1be6b394179 (HEAD -> master, tag: v1)
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:29:50 2024 +0300

    Added HTML header

commit 79ac6a7fa8f878d990967a9cb4b92b8c3f341540 (tag: v1-beta)
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:29:07 2024 +0300

    Added standard HTML page tags

commit 559c95d149b97ba6bc029d7a1df3302bd17e0a5c
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:23:57 2024 +0300

    Initial Commit

PS C:\Users\User\hello> git tag -d oops
Deleted tag 'oops' (was 79ee3e4)
PS C:\Users\User\hello> git log --all
commit 619764401430fa239bdb7a3e6bcbdd1be6b394179 (HEAD -> master, tag: v1)
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:29:50 2024 +0300

    Added HTML header

commit 79ac6a7fa8f878d990967a9cb4b92b8c3f341540 (tag: v1-beta)
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:29:07 2024 +0300

    Added standard HTML page tags

commit 559c95d149b97ba6bc029d7a1df3302bd17e0a5c
Author: 0run <orunrahvedow@gmail.com>
Date: Sat Feb 10 21:23:57 2024 +0300

    Initial Commit
```

Ход работы

```
Mode                LastWriteTime         Length Name
----                -
d-----         10.02.2024    22:13             hooks
d-----         10.02.2024    22:13             info
d-----         10.02.2024    22:13             objects
d-----         10.02.2024    22:13             refs
-a----         10.02.2024    22:13           149 config
-a----         10.02.2024    22:13            73 description
-a----         10.02.2024    22:13            23 HEAD
-a----         10.02.2024    22:13          276 packed-refs

PS C:\Users\User> cd hello
PS C:\Users\User\hello> git remote add shared ../hello.git
PS C:\Users\User\hello> git checkout master
Already on 'master'
M       lib/README.md
PS C:\Users\User\hello> git add README
fatal: pathspec 'README' did not match any files
PS C:\Users\User\hello> git commit -m "Added shared comment to readme"
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:   lib/README.md

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\User\hello> git push shared master
Everything up-to-date
PS C:\Users\User\hello> cd ../cloned_hello
PS C:\Users\User\cloned_hello> git remote add shared ../hello.git
PS C:\Users\User\cloned_hello> git branch --track shared master
branch 'shared' set up to track 'master'.
PS C:\Users\User\cloned_hello> git pull shared master
From ../hello
 * branch            master       -> FETCH_HEAD
 * [new branch]      master       -> shared/master
Already up to date.
PS C:\Users\User\cloned_hello> cat README.md
cat : Не удалось найти путь "C:\Users\User\cloned_hello\README.md", так как он не существует.
строка:1 знак:1
+ cat README.md
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\Users\User\cloned_hello\README.md:String) [GetContentCommand]
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetContentCommand

PS C:\Users\User\cloned_hello> cat README.md
This is the Hello World example from the git tutorial.
PS C:\Users\User\cloned_hello>
```



Спасибо за внимание!