

Лабораторная работа №1

Работа с git

Хамдамова А. А.

17 февраля 2025

Российский университет дружбы народов, Москва, Россия

Информация

- Хамдамова Айжана
- студент факультета Физико-математических и естественных наук
- Российский университет дружбы народов
- 1032225989@pfur.ru
- https://github.com/AizhanaKhamdamova/study_2024-2025_mathmod

Вводная часть

- Научиться работать с git.
- Приобрести практические навыки работы с системой управления версиями Git.

Теоретическое введение

Git — распределённая система управления версиями. Проект был создан Линусом Торвальдсом для управления разработкой ядра Linux, первая версия выпущена 7 апреля 2005 года; координатор — Дзюн Хамано

Подготовка

```
aizha@laptop MSYS ~  
$ cd /d/math_mod/  
  
aizha@laptop MSYS /d/math_mod  
$ git --version  
git version 2.48.1.windows.1  
  
aizha@laptop MSYS /d/math_mod  
$git config --global core.autocrlf true  
  
aizha@laptop MSYS /d/math_mod  
$ git config --global core.safecrlf true  
  
aizha@laptop MSYS /d/math_mod  
$ git config --global core.quotepath off  
-bash: $'\302\226git': command not found  
  
aizha@laptop MSYS /d/math_mod  
$git config --global core.quotepath off  
  
aizha@laptop MSYS /d/math_mod  
$ |
```


Коммит изменений

```
aizha@laptop MSYS /d/math_mod/hello
$ git status
On branch master
nothing to commit, working tree clean

aizha@laptop MSYS /d/math_mod/hello
$ nano hello.html

aizha@laptop MSYS /d/math_mod/hello
$ cat hello.html
<h1>Hello, World!</h1>

aizha@laptop MSYS /d/math_mod/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")

aizha@laptop MSYS /d/math_mod/hello
$ git add hello.html

aizha@laptop MSYS /d/math_mod/hello
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html
```

Создание тегов версий

```
aizha@laptop MSYS /d/math_mod/hello
$ git tag v1-beta

aizha@laptop MSYS /d/math_mod/hello
$ git checkout v1
Previous HEAD position was ac74b87 added standart html page tags
HEAD is now at 3a751df Added HTML header

aizha@laptop MSYS /d/math_mod/hello
$ git checkout v1-beta
Previous HEAD position was 3a751df Added HTML header
HEAD is now at ac74b87 added standart html page tags

aizha@laptop MSYS /d/math_mod/hello
$ git tag
v1
v1-beta

aizha@laptop MSYS /d/math_mod/hello
$ git log master --all
commit 3a751dfa676a84e2e2214cd96ba752c40d77a8ac (tag: v1, master)
Author: Aizhanakhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:25:29 2025 +0300

    Added HTML header

commit ac74b87691a315ffee38d2cda9f5ede47a26f66e (HEAD, tag: v1-beta)
Author: Aizhanakhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:24:23 2025 +0300

    added standart html page tags

commit 13795e3719046479e3f294b800bfdaea48984e85
Author: Aizhanakhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:15:57 2025 +0300

    Added h1 tag

commit 0f7e20e87d817d70f079fdf711deb38859194c4c
Author: Aizhanakhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:07:47 2025 +0300

    Initial Commit
```

Удаление тега oops

```
aizha@laptop MSYS /d/math_mod/hello
$ git tag -d oops
Deleted tag 'oops' (was 102e0d3)

aizha@laptop MSYS /d/math_mod/hello
$ git log --all
commit 3a751dfa676a84e2e2214cd96ba752c40d77a8ac (HEAD -> master, tag: v1)
Author: AizhanaKhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:25:29 2025 +0300

    Added HTML header

commit ac74b87691a315ffee38d2cda9f5ede47a26f66e (tag: v1-beta)
Author: AizhanaKhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:24:23 2025 +0300

    added standart html page tags

commit 13795e3719046479e3f294b800bfdaea48984e85
Author: AizhanaKhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:15:57 2025 +0300

    Added h1 tag

commit 0f7e20e87d817d70f079fdf711deb38859194c4c
Author: AizhanaKhamdamova <1032225989@pfur.ru>
Date: Sun Feb 16 22:07:47 2025 +0300

    Initial Commit
```

```
Merge made by the 'ort' strategy.
README.md | 1 +te: D:/math_mod/hello[ wrote 7 lines ]
1 file changed, 1 insertion(+)F Where Is      ^K Cut      ^T Execute  ^C
create mode 100644 README.md  \ Replace      ^U Paste      ^J Justify  ^/

aizha@laptop MSYS /d/math_mod/hello
$ git log --graph --all
*   commit 016ccb0419a1b6bd8e67984946db87f45c6a85c5 (HEAD -> style)
|/
| Merge: 7ee2732 bd87532
| Author: AizhanaKhamdamova <1032225989@pfur.ru>
| Date:   Sun Feb 16 23:14:35 2025 +0300
|
|     lab1
|     Merge branch 'master' into style
|
| *   commit bd87532945b16eca8434510821e4f4f1a80b2d8b (master)
|/
| Author: AizhanaKhamdamova <1032225989@pfur.ru>
| Date:   Sun Feb 16 23:12:32 2025 +0300
|
|     Added README
|
| *   commit 7ee27322f007765dd5a7b1e21a918ad3ff25f09e
|/
| Author: AizhanaKhamdamova <1032225989@pfur.ru>
| Date:   Sun Feb 16 23:09:42 2025 +0300
|
|     Updated index.html
|
| *   commit e8a00eafc908870c278a42a90dddb788d6f2d843
|/
| Author: AizhanaKhamdamova <1032225989@pfur.ru>
| Date:   Sun Feb 16 23:07:48 2025 +0300
|
|     Hello uses style.css
|
| *   commit 5b8b7433c01001945616e5395ed27fb445a4483e
|/
| Author: AizhanaKhamdamova <1032225989@pfur.ru>
| Date:   Sun Feb 16 23:05:22 2025 +0300
|
|     Added css stylesheet
|
| *   commit f7b910784a43d98bef95c5dbb5e875a6ec65b422
|/
| Author: AizhanaKhamdamova <1032225989@pfur.ru>
| Date:   Sun Feb 16 23:03:22 2025 +0300
|
|     Added css stylesheet
```

Создание конфликта

```
aizha@laptop MSYS /d/math_mod/hello
$ git log --graph --all
* commit 31d7042520b7a92dd0e83e5ec2c558e0cde880a7 (HEAD -> master)
  Author: AizhanaKhamdamova <1032225989@pfur.ru>
  Date: Sun Feb 16 23:17:40 2025 +0300

    Life is great

* commit 016ccb0419a1b6bd8e67984946db87f45c6a85c5 (style)
  Merge: 7ee2732 bd87532
  Author: AizhanaKhamdamova <1032225989@pfur.ru>
  Date: Sun Feb 16 23:14:35 2025 +0300

    lab1
    Merge branch 'master' into style

* commit bd87532945b16eca8434510821e4f4f1a80b2d8b
  Author: AizhanaKhamdamova <1032225989@pfur.ru>
  Date: Sun Feb 16 23:12:32 2025 +0300

    Added README

* commit 7ee27322f007765dd5a7b1e21a918ad3ff25f09e
  Author: AizhanaKhamdamova <1032225989@pfur.ru>
  Date: Sun Feb 16 23:09:42 2025 +0300

    Updated index.html

* commit e8a00eafc908870c278a42a90dddb788d6f2d843
  Author: AizhanaKhamdamova <1032225989@pfur.ru>
  Date: Sun Feb 16 23:07:48 2025 +0300

    Hello uses style.css

* commit 5b8b7433c01001945616e5395ed27fb445a4483e
  Author: AizhanaKhamdamova <1032225989@pfur.ru>
  Date: Sun Feb 16 23:05:22 2025 +0300
```

Я приобрела практические навыки работы с системой управления версиями Git.

...