

# отчёт по лабораторной работе №1

## Простейший вариант

Арам Грачьяевич Саргсян

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### Цель работы

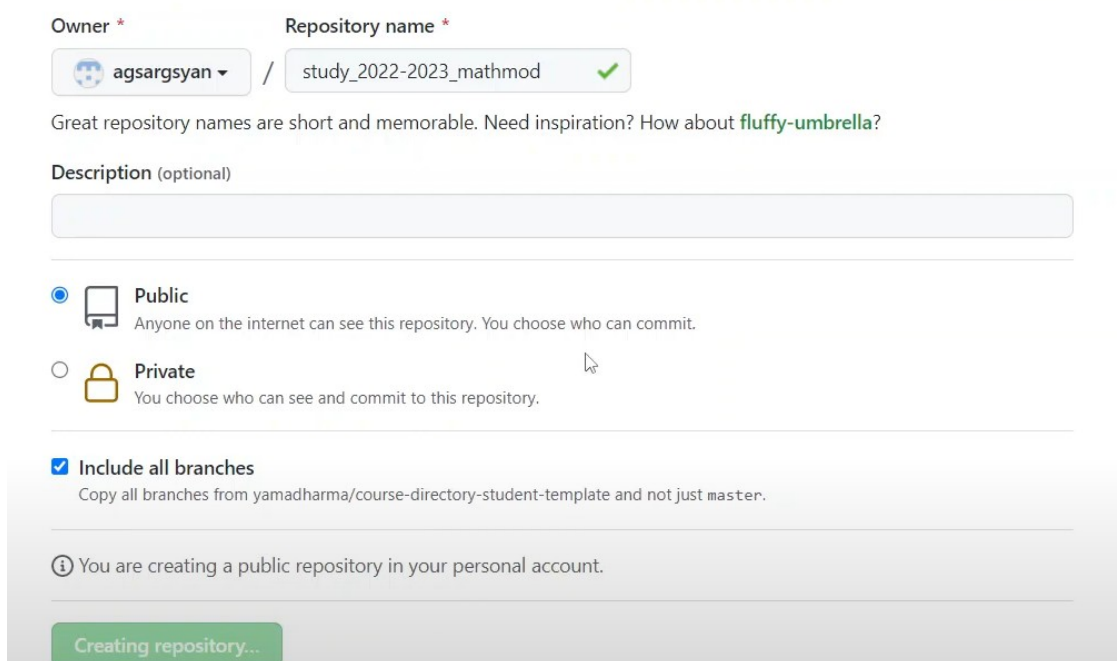
Целью данной работы является создание рабочего пространства и репозитория курса, а также ознакомление с средствами git и языком разметки markdown.

### Задание

Создать рабочее пространство в соответствии с указанными критериями, выполнить задания из файлов git и markdown.

### Выполнение лабораторной работы

1. Создал репозиторий курса на основе шаблона (рис. @fig:001).




The screenshot shows the GitHub 'Create new repository' form. The 'Owner' is 'agsargyan' and the 'Repository name' is 'study\_2022-2023\_mathmod', which is marked as valid with a green checkmark. A suggestion for 'fluffy-umbrella?' is shown below. The 'Description' field is empty. Under 'Visibility', the 'Public' option is selected with a radio button, and a mouse cursor is hovering over the 'Private' option. The 'Include all branches' checkbox is checked. A note at the bottom states: 'You are creating a public repository in your personal account.' A green button at the bottom left says 'Creating repository...'.


Owner \* Repository name \*

agsargyan / study\_2022-2023\_mathmod ✓


Great repository names are short and memorable. Need inspiration? How about [fluffy-umbrella?](#)

Description (optional)

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**  
You choose who can see and commit to this repository.

☒ **Include all branches**  
Copy all branches from yamadharm/course-directory-student-template and not just master.

 You are creating a public repository in your personal account.

Creating repository...

2. В своей машине создал рабочий каталог (рис. @fig:002).

```
agsargsyan@agsargsyan-VirtualBox: ~$ pwd
/home/agsargsyan
agsargsyan@agsargsyan-VirtualBox: ~$ mkdir -p ~/work/study/2022-2023/"Математическое моделирование"
agsargsyan@agsargsyan-VirtualBox: ~$ cd ~/work/study/2022-2023/"Математическое моделирование"
```

3. Сгенерировал ssh ключ для подключения к гитхаб (рис. @fig:003).

```
ssh: Could not resolve hostname keygen: Temporary failure in name resolution
agsargsyan@agsargsyan-VirtualBox: ~/.ssh$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/agsargsyan/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/agsargsyan/.ssh/id_rsa
Your public key has been saved in /home/agsargsyan/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:Gj7pUUAQQTk04jGerh1YailLtjE5QB9+h+HYBo5znkk agsargsyan@agsargsyan-VirtualBox
The key's randomart image is:
+---[RSA 3072]-----+
|o.*==.
|.+XoB.o
|+^..E *..
|X.& = ..
|. * + . S
|. . =
|. . *
|. . o
|. .
+---[SHA256]-----+
agsargsyan@agsargsyan-VirtualBox: ~/.ssh$
```

4. Добавил ключ в гитхаб (рис. @fig:004).

The screenshot shows the GitHub web interface for a user named 'agsargsyan'. The left sidebar contains navigation links: Public profile, Account, Appearance, Accessibility, Notifications, Access, Billing and plans, Emails, Password and authentication, Sessions, SSH and GPG keys (highlighted), Organizations, and Moderation. The main content area is titled 'SSH keys / Add new'. It features a 'Title' input field with the value 'key-agsargsyan', a 'Key type' dropdown menu set to 'Authentication Key', and a 'Key' text area containing a list of supported key formats: 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', 'ssh-ed25519', 'sk-ecdsa-sha2-nistp256@openssh.com', and 'sk-ssh-ed25519@openssh.com'. A green 'Add SSH key' button is located at the bottom right of the form.

5. Клонировал репозиторий в каталог mathmod моей машины. (рис. @fig:005).

```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование$ git clone --recursive git@github.com:agsargsyan/study_2022-2023_
mathmod.git mathmod
Cloning into 'mathmod'...
remote: Enumerating objects: 28, done.
remote: Counting objects: 100% (28/28), done.
remote: Compressing objects: 100% (27/27), done.
remote: Total 28 (delta 1), reused 11 (delta 0), pack-reused 0
Receiving objects: 100% (28/28), 17.43 KiB | 187.00 KiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yanadharna/academic-presentation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yanadharna/academic-laboratory-report-template.git) registered for path 'template/report'
Cloning into '/home/agsargsyan/work/study/2022-2023/Математическое моделирование/mathmod/template/presentation'...
remote: Enumerating objects: 82, done.
remote: Counting objects: 100% (82/82), done.
remote: Compressing objects: 100% (57/57), done.
remote: Total 82 (delta 28), reused 77 (delta 23), pack-reused 0
Receiving objects: 100% (82/82), 92.90 KiB | 990.00 KiB/s, done.
Resolving deltas: 100% (28/28), done.
Cloning into '/home/agsargsyan/work/study/2022-2023/Математическое моделирование/mathmod/template/report'...
remote: Enumerating objects: 101, done.
remote: Counting objects: 100% (101/101), done.
remote: Compressing objects: 100% (70/70), done.
remote: Total 101 (delta 40), reused 88 (delta 27), pack-reused 0
Receiving objects: 100% (101/101), 327.25 KiB | 805.00 KiB/s, done.
Resolving deltas: 100% (40/40), done.
Submodule path 'template/presentation': checked out 'b1be3800ee91f5809264cb755d316174540b753e'
Submodule path 'template/report': checked out '1d1b61dcac9c287a83917b82e3aef11a33b1e3b2'
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование$
```

Активация Windows  
Чтобы активировать Windows  
"Параметры".

6. Настроил каталог курса (рис. @fig:006).

```
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование$ cd mathmod
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$ ls
CHANGELOG.md  config  COURSE  LICENSE  Makefile  package.json  README.en.md  README.git-flow.md  README.md  template
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$ rm package.json
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$ echo mathmod > COURSE
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$ make
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$ git add .
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$
```

7. Сохранил все изменения в репозиторий (рис. @fig:007).

```
create mode 100644 project-group/stage4/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 project-group/stage4/report/report.md
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$ git push
Enumerating objects: 40, done.
Counting objects: 100% (40/40), done.
Delta compression using up to 4 threads
Compressing objects: 100% (30/30), done.
Writing objects: 100% (38/38), 342.34 KiB | 1.86 MiB/s, done.
Total 38 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:agsargsyan/study_2022-2023_mathmod.git
cc0f14d..bcb6038 master -> master
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod$
```

8. Установил окончания строк и поддержку unicode (рис. @fig:008).

```
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs$ cd lab01
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01$ git config --global core.autocrlf input
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01$ git config --global core.safecrlf true
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01$ git config --global core.quotePath off
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01$
```

9. Создал страницу «hello world» (рис. @fig:009).

```
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моде...
/Математическое моделирование/mathmod/labs/lab01$ mkdir hello
/Математическое моделирование/mathmod/labs/lab01$ cd hello
/Математическое моделирование/mathmod/labs/lab01/hello$ touch hello.html
/Математическое моделирование/mathmod/labs/lab01/hello$ echo "Hello, World!" > hello.html

/Математическое моделирование/mathmod/labs/lab01/hello$ echo "Hello, World!" > hello.html
/Математическое моделирование/mathmod/labs/lab01/hello$
```



10. Создал локальный репозиторий hello и добавил туда файл hello.html, проверил состояние репозитория (рис. @fig:010).

```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ echo "Hello, World!" > hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Help lized empty Git repository in /home/agsargsyan/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello/.git/
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git add hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ ls
hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git commit -m "Initial Commit"
[master (root-commit) 9f3ab87] Initial Commit
1 file changed, 1 insertion(+)
create mode 100644 hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git status
On branch master
nothing to commit, working tree clean
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$
```

11. Изменил файл hello.html и проверил состояние репозитория, проиндексировал изменения (рис. @fig:011).

```
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ emacs hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ cat hello.html

<h1> Hello, World! </h1>
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ emacs hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/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")
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
    add
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git add .
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git add hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$
```

12. Изменил страницу «Hello, World», чтобы она содержала стандартные теги html и body, проиндексировал изменения (рис. @fig:012).

```
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git commit
[master f09da87] Added h1 tag
1 file changed, 1 insertion(+), 1 deletion(-)
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ vi hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ nano hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ cat hello.html
<html>
  <body>
    <h1> Hello, World! </h1>
  </body>
</html>
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git add hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ nano hello.html
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ cat hello.html
<html>
  <head> </head>
  <body>
    <h1> Hello, World! </h1>
  </body>
</html>
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/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

agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/nathmod/labs/lab01/hello$ git commit -m "Added standard HTML tags"
[master fbef50c] Added standard HTML page tags
1 file changed, 5 insertions(+), 1 deletion(-)
```

13. Просмотрел историю изменений (рис. @fig:013).

```
1 file changed, 1 insertion(+)
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git log
commit 14e993bac40f5773948af33f2359c10a8a6cbe6b (HEAD -> master)
Author: agsargsyan <agsargsyanos@gmail.com>
Date: Thu Feb 9 12:59:09 2023 +0300

    Added HTML header

commit fbef50ce59a8e0159a2c56ae217b506e4d4bf913
Author: agsargsyan <agsargsyanos@gmail.com>
Date: Thu Feb 9 12:57:55 2023 +0300

    Added standard HTML page tags

commit f09da87731edd4898a461ba59e48f0a7f96d4a6b
Author: agsargsyan <agsargsyanos@gmail.com>
Date: Thu Feb 9 12:49:19 2023 +0300

    Added h1 tag

commit 9f3ab87eddeca0e8eeafb6977880ac5798e4c35f
Author: agsargsyan <agsargsyanos@gmail.com>
Date: Thu Feb 9 12:41:45 2023 +0300

    Initial Commit
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$
```

14. Вернулся к предыдущей версии файла (рис. @fig:014).

```
    Added standard HTML page tags
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git checkout fbef50ce59a8e0159a2c56ae217b506e4d4bf913
Note: switching to 'fbef50ce59a8e0159a2c56ae217b506e4d4bf913'.

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 fbef50c Added standard HTML page tags
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ cat hello.html
<html>
  <body>
    <h1> Hello, World! </h1>
  </body>
</html>
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$
```

15. Вернулся к последней версии, создал тег старой версии и снова откатился туда (рис. @fig:015).

```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git checkout
Previous HEAD position was fbef50c Added standard HTML page tags
Switched to branch 'master'
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ cat hello.htm
<html>
  <head> </head>
  <body>
    <h1> Hello, World! </h1>
  </body>
</html>
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git tag v1
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git checkout
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 fbef50c Added standard HTML page tags
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ cat hello.htm
<html>
  <body>
    <h1> Hello, World! </h1>
  </body>
</html>
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$
```

16. Переместил файл hello.html в подкаталог lib, создал файл index.html, покопался в каталоге .git (рис. @fig:016).

```
Initial Commit
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ mkdir lib
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git mv hello.html lib
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        renamed:    hello.html -> lib/hello.html

agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git commit -m "Moved hello.html to lib"
[master 56c2393] Moved hello.html to lib
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename hello.html => lib/hello.html (100%)
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ nano index.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ cat index.html
<html>
<body>
<iframe src="lib/hello.html" width="200" height="200" />
</body>
</html>
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git add index.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git commit -m "Added index.html."
[master 99f094a] Added index.html.
 1 file changed, 7 insertions(+)
 create mode 100644 index.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ index.html
index.html: command not found
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ ls -C .git
branches  COMMIT_EDITMSG  config  description  HEAD  hooks  index  info  logs  objects  ORIG_HEAD  packed-refs  refs
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ ls -C .git/objects
00  11  14  15  18  19  20  2a  3a  4a  50  52  5b  6b  71  7a  80  87  88  8a  96  99  9f  be  d7  ed  f0  fb  info  pack
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ ls -C .git/objects/info
pack
bash: syntax error near unexpected token 'newline'
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$
```



17. Вывел коммиты с помощью SHA1 хэша (рис. @fig:017).

```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git cat-file -p 50f6686de91938dd58a1c510b46bc62b1e6d5ec5
tree be6aa0ccb7c5cfdc4c1db7eb6cac4db637c2e951
parent 14e993bac40f5773948af33f2359c10a8a6cbe6b
author agsargsyan <agsargsyanos@gmail.com> 1675938358 +0300
committer agsargsyan <agsargsyanos@gmail.com> 1675938521 +0300

Add an author/email comment
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git cat-file -p 14e993bac40f5773948af33f2359c10a8a6cbe6b
tree 38a619d0c5c13f31449a2805de813a985b4420b4
parent fbef50ce59a8e0159a2c56ae217b506e4d4bf913
author agsargsyan <agsargsyanos@gmail.com> 1675936749 +0300
committer agsargsyan <agsargsyanos@gmail.com> 1675936749 +0300

Added HTML header
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git cat-file -p fbef50ce59a8e0159a2c56ae217b506e4d4bf913
tree 71fcd68a05ce3be9a9e6155d61374f0270d77e9b5
parent f09da87731edd4898a461ba59e48f0a7f96d4a6b
author agsargsyan <agsargsyanos@gmail.com> 1675936675 +0300
committer agsargsyan <agsargsyanos@gmail.com> 1675936675 +0300

Added standard HTML page tags
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git cat-file -p f09da87731edd4898a461ba59e48f0a7f96d4a6b
tree 7a705e02eac6540a409b6a99a8e4b32b3e4f385
parent 9f3ab87eddeca0e8eeafb6977880ac5798e4c35f
author agsargsyan <agsargsyanos@gmail.com> 1675936159 +0300
committer agsargsyan <agsargsyanos@gmail.com> 1675936159 +0300

Added h1 tag
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git cat-file -p f3ab87eddeca0e8eeafb6977880ac5798e4c35f
fatal: Not a valid object name f3ab87eddeca0e8eeafb6977880ac5798e4c35f
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git cat-file -p 9f3ab87eddeca0e8eeafb6977880ac5798e4c35f
tree 523cd318fc3b74ad3852cd34a74720ad6f7dd422
author agsargsyan <agsargsyanos@gmail.com> 1675935705 +0300
committer agsargsyan <agsargsyanos@gmail.com> 1675935705 +0300

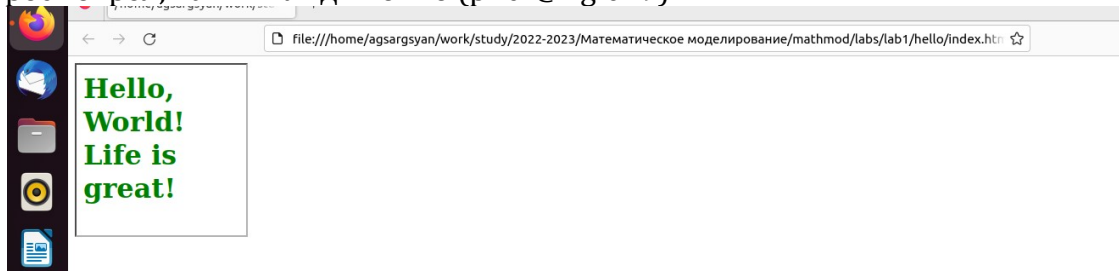
Initial Commit
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$
```

Активация Windows  
Чтобы активировать Windows, перейдите на ["Параметры"](#)

18. Добавил css файл для стиля, изменил index.html и hello.html (рис. @fig:018).

```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git checkout -b style
Switched to a new branch 'style'
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git status
On branch style
nothing to commit, working tree clean
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ touch lib/style.css
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ cat lib/style.css
h1 {
    color: green;
}
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git add lib/style.css
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git commit -m "Added css stylesheet"
[style bbf2205] Added css stylesheet
1 file changed, 3 insertions(+)
create mode 100644 lib/style.css
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ nano lib/hello.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git add lib/hello.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git commit -m "Hello uses style.css"
[style 8ab3aac] Hello uses style.css
1 file changed, 4 insertions(+), 1 deletion(-)
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ nano index.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ nano lib/hello.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ nano index.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git add index.html
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git commit -m "Updated"
```

19. Просмотрел, как выглядит окно (рис. @fig:019).



## 20. Просмотрел дерево коммитов (рис. @fig:020).

```
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git log --graph --all
* commit ffe728eef7864ae00cb1be160ae34230665793dd (HEAD -> style)
  Merge: 6d98f28 ea6118f
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 14:05:52 2023 +0300

    Merge branch 'master' into style

* commit ea6118f510b76fdbb2d944c01887969eb4aa7f9e (master)
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 14:04:25 2023 +0300

    added Resdme

* commit 6d98f28f4c4f9f862d75dd88f65fcb5ed7e52abd
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 13:59:12 2023 +0300

    Updated index.html

* commit 8ab3aac565b6e39f9d148c3885db6c0d90dc50a1
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 13:56:52 2023 +0300

    Hello uses style.css

* commit bbf220538d3ef17b17c0033c557755785ccd78d7
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 13:52:42 2023 +0300

    Added css stylesheet
```

Активация Windows

## 21. Создал конфликт (рис. @fig:021).

```
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git commit
[master 64d2cfc] Life is great!
1 file changed, 3 insertions(+), 2 deletions(-)
agsargsyan@agsargsyan-VirtualBox:~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git log --graph --all
* commit 64d2cfc1ba67a1bd50d6aa3d992efc2831040e67 (HEAD -> master)
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 14:14:02 2023 +0300

    Life is great!

* commit ffe728eef7864ae00cb1be160ae34230665793dd (style)
  Merge: 6d98f28 ea6118f
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 14:05:52 2023 +0300

    Merge branch 'master' into style

* commit ea6118f510b76fdbb2d944c01887969eb4aa7f9e
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 14:04:25 2023 +0300

    added Resdme

* commit 6d98f28f4c4f9f862d75dd88f65fcb5ed7e52abd
  Author: agsargsyan <agsargsyanos@gmail.com>
  Date: Thu Feb 9 13:59:12 2023 +0300
```



22. Вручную разрешил конфликт (рис. @fig:022).

```
root@agsargsyan-VirtualBox: ~ x agsargsyan@agsargsyan-VirtualBox: ~... x agsargsyan@agsargsyan-VirtualBox: ~... x
* commit c642c1e724aa771341b03838c738f32571e721ca (HEAD -> style)
| Merge: ffe728e 64d2cfc
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 14:19:02 2023 +0300
|
| Merged master fixed conflict.
|
* commit 64d2cfc1ba67a1bd50d6aa3d992efc2831040e67 (master)
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 14:14:02 2023 +0300
|
| Life is great!
|
* commit ffe728eef7864ae00cb1be160ae34230665793dd
| Merge: 6d98f28 ea6118f
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 14:05:52 2023 +0300
|
| Merge branch 'master' into style
|
* commit ea6118f510b76fdbb2d944c01887969eb4aa7f9e
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 14:04:25 2023 +0300
|
| added Resdme
|
* commit 6d98f28f4c4f9f862d75dd88f65fcb5ed7e52abd
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 13:59:12 2023 +0300
|
| Updated index.html
|
* commit 8ab3aac565b6e39f9d148c3885db6c0d90dc50a1
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 13:56:52 2023 +0300
|
| Hello uses style.css
|
* commit bbfb220538d3ef17b17c0033c55775785ccd78d7
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 13:52:42 2023 +0300
```

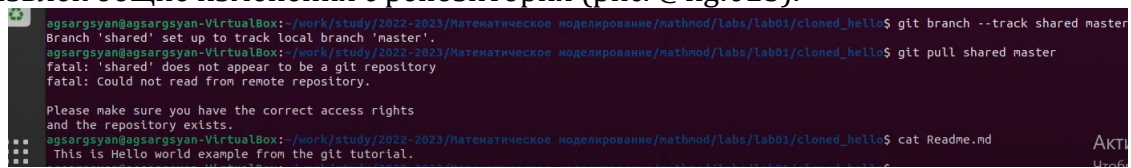
23. Сбросил ветку style (рис. @fig:023).

```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git checkout style
Switched to branch 'style'
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git rebase master
Auto-merging lib/hello.html
CONFLICT (content): Merge conflict in lib/hello.html
error: could not apply 64d2cfc... Life is great!
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply 64d2cfc... Life is great!
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/hello$ git log --graph
* commit 9fb08e606a01850a7e36835a46277cfab8234ea8 (HEAD)
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 13:59:12 2023 +0300
|
| Updated index.html
|
* commit 39c7bd33a5049965ac56265b2017c1072c4783dc
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 13:56:52 2023 +0300
|
| Hello uses style.css
|
* commit 14ff01b74f13d2c92daf02fcc2ec7720031fe4dc
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 13:52:42 2023 +0300
|
| Added css stylesheet
|
* commit ea6118f510b76fdbb2d944c01887969eb4aa7f9e (master)
| Author: agsargsyan <agsargsyanos@gmail.com>
| Date: Thu Feb 9 14:04:25 2023 +0300
```

24. Склонировал репозиторий (рис. @fig:024).

```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01$ git clone hello cloned_hello
Cloning into 'cloned_hello'...
done.
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01$
```

## 25. Извлек общие изменения с репозитория (рис. @fig:025).



```
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/cloned_hello$ git branch --track shared master
Branch 'shared' set up to track local branch 'master'.
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/cloned_hello$ git pull shared master
fatal: 'shared' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
agsargsyan@agsargsyan-VirtualBox: ~/work/study/2022-2023/Математическое моделирование/mathmod/labs/lab01/cloned_hello$ cat Readme.md
..
..
..
This is Hello world example from the git tutorial.
```

### # Выводы

Я установил рабочее пространство и получил навыки для работы с git и markdown.