

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ
Факультет физико-математических и естественных наук
Кафедра прикладной информатики

ОТЧЕТ
ПО ЛАБОРАТОРНОЙ РАБОТЕ № 2

Дисциплина: Архитектура компьютера

Студент: Рахматов Умеджон Хотамович

МОСКВА

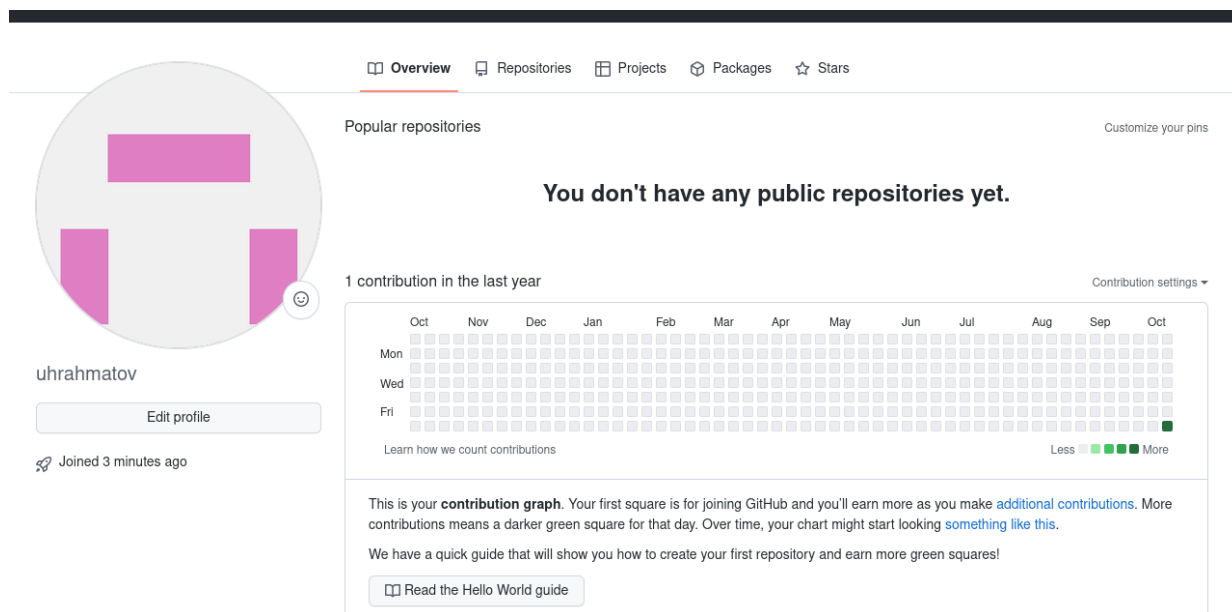
2022 г.

Цель работы

Целью работы является изучить идеологию и применение средств контроля версий. Приобрести практические навыки по работе с системой git.

Ход работы

Создайте учётную запись на сайте <https://github.com/> и заполните основные данные.



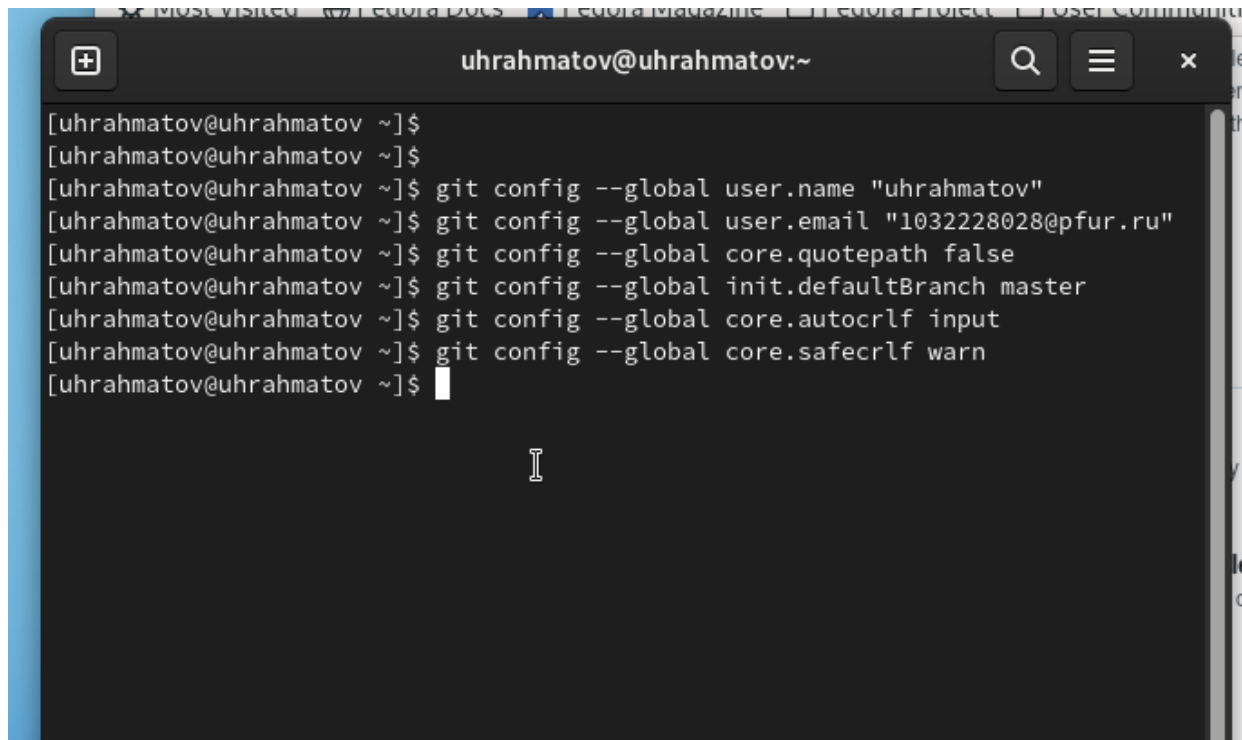
Сначала сделаем предварительную конфигурацию git. Откройте терминал и введите следующие команды, указав имя и email владельца репозитория:

Настроим utf-8 в выводе сообщений git:

Зададим имя начальной ветки (будем называть её master):

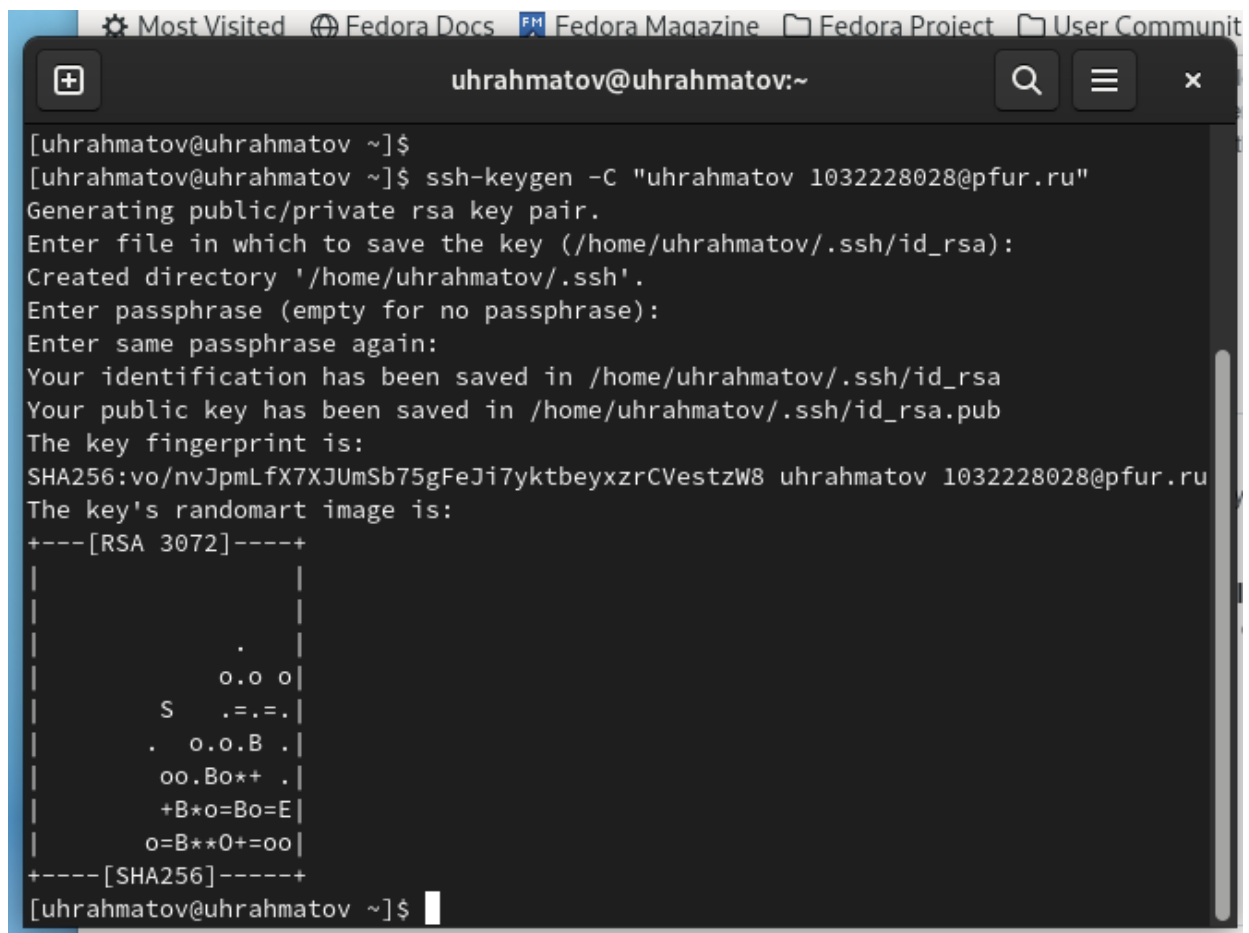
Параметр autocrlf:

Параметр safecrlf:

A terminal window titled 'uhtahmatov@uhtahmatov:~' with search and menu icons in the title bar. The terminal shows a series of 'git config' commands being executed to set global configuration options. The commands are: 'git config --global user.name "uhtahmatov"', 'git config --global user.email "1032228028@pfur.ru"', 'git config --global core.quotepath false', 'git config --global init.defaultBranch master', 'git config --global core.autocrlf input', and 'git config --global core.safecrlf warn'. The prompt returns to '~]\$' after the last command.

```
[uhtahmatov@uhtahmatov ~]$  
[uhtahmatov@uhtahmatov ~]$  
[uhtahmatov@uhtahmatov ~]$ git config --global user.name "uhtahmatov"  
[uhtahmatov@uhtahmatov ~]$ git config --global user.email "1032228028@pfur.ru"  
[uhtahmatov@uhtahmatov ~]$ git config --global core.quotepath false  
[uhtahmatov@uhtahmatov ~]$ git config --global init.defaultBranch master  
[uhtahmatov@uhtahmatov ~]$ git config --global core.autocrlf input  
[uhtahmatov@uhtahmatov ~]$ git config --global core.safecrlf warn  
[uhtahmatov@uhtahmatov ~]$
```

Для последующей идентификации пользователя на сервере репозитория необходимо сгенерировать пару ключей (приватный и открытый):

A terminal window titled 'uhtahmatov@uhtahmatov:~' with search and menu icons in the title bar. The terminal shows the execution of 'ssh-keygen -C "uhtahmatov 1032228028@pfur.ru"'. The output includes: 'Generating public/private rsa key pair.', 'Enter file in which to save the key (/home/uhtahmatov/.ssh/id_rsa):', 'Created directory "/home/uhtahmatov/.ssh"'.', 'Enter passphrase (empty for no passphrase):', 'Enter same passphrase again:', 'Your identification has been saved in /home/uhtahmatov/.ssh/id_rsa', 'Your public key has been saved in /home/uhtahmatov/.ssh/id_rsa.pub', 'The key fingerprint is:', 'SHA256:vo/nvJpmLfX7XJUmSb75gFeJi7yktbeyxzcVestzW8 uhtahmatov 1032228028@pfur.ru', 'The key's randomart image is:', followed by a randomart image for an RSA 3072 key, and '-----[SHA256]-----'. The prompt returns to '~]\$' at the end.

```
[uhtahmatov@uhtahmatov ~]$  
[uhtahmatov@uhtahmatov ~]$ ssh-keygen -C "uhtahmatov 1032228028@pfur.ru"  
Generating public/private rsa key pair.  
Enter file in which to save the key (/home/uhtahmatov/.ssh/id_rsa):  
Created directory '/home/uhtahmatov/.ssh'.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /home/uhtahmatov/.ssh/id_rsa  
Your public key has been saved in /home/uhtahmatov/.ssh/id_rsa.pub  
The key fingerprint is:  
SHA256:vo/nvJpmLfX7XJUmSb75gFeJi7yktbeyxzcVestzW8 uhtahmatov 1032228028@pfur.ru  
The key's randomart image is:  
+---[RSA 3072]---+  
|  
| .  
| o.o o|  
| S .=. .|  
| . o.o.B .|  
| oo.B0*+ .|  
| +B*o=B0=E|  
| o=B*0+=oo|  
+-----[SHA256]-----+  
[uhtahmatov@uhtahmatov ~]$
```

Далее необходимо загрузить сгенерённый открытый ключ. Для этого зайти на сайт <http://github.org/> под своей учётной записью и перейти в меню Setting . После этого выбрать в боковом меню SSH and GPG keys и нажать кнопку

New SSH key .

The screenshot shows the GitHub account settings page for user 'uhtahmatov'. The left sidebar contains navigation links: Public profile, Account (selected), Appearance, Accessibility, Notifications, Access, Billing and plans, Emails, Password and authentication, SSH and GPG keys (highlighted), Organizations, and Moderation. The main content area is titled 'SSH keys' and includes a 'New SSH key' button. Below the title, it states: 'This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.' Under the 'Authentication Keys' section, there is one key listed with a key icon, the label '1', the key ID 'SHA256:vo/nvJpmLfX7XJUmSb75gFeJ17yktbeyxzcVestzW8', the date 'Added on 15 Oct 2022', and the status 'Never used — Read/write'. A 'Delete' button is next to the key. Below the key list, there is a link to 'Check out our guide to generating SSH keys or troubleshoot common SSH problems.' Below the 'SSH keys' section, there is a 'GPG keys' section with a 'New GPG key' button. It states: 'There are no GPG keys associated with your account.' and provides a link to 'Learn how to generate a GPG key and add it to your account.'

При выполнении лабораторных работ следует придерживаться структуры рабочего пространства.

Репозиторий на основе шаблона можно создать через web-интерфейс github. Перейдите на страницу репозитория с шаблоном курса <https://github.com/yamadharma/course-directory-student-template>.

Клонируйте созданный репозиторий:

The screenshot shows the GitHub 'Create a new repository from template' form. The title is 'Create a new repository from course-directory-student-template'. Below the title, it states: 'The new repository will start with the same files and folders as [yamadharma/course-directory-student-template](#).' The form has two main sections: 'Owner' and 'Repository name'. The 'Owner' section shows a dropdown menu with 'uhtahmatov' selected. The 'Repository name' section shows a text input with 'arch-pc' and a green checkmark. Below these sections, there is a note: 'Great repository names are short and memorable. Need inspiration? How about [studious-octo-fiesta](#)?'. The 'Description (optional)' section has a text input field. Below the description, there are two radio buttons: 'Public' (selected) and 'Private'. The 'Public' option is described as 'Anyone on the internet can see this repository. You choose who can commit.' The 'Private' option is described as 'You choose who can see and commit to this repository.' Below the radio buttons, there is a checkbox labeled 'Include all branches' which is currently unchecked. The checkbox is described as 'Copy all branches from yamadharma/course-directory-student-template and not just master.' At the bottom of the form, there is a green button labeled 'Create repository from template'. A small information icon is next to the text: 'You are creating a public repository in your personal account.'

uhrahmatov / arch-pcPublic

generated from yamadharma/course-directory-student-template

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

master1 branch0 tags

Go to fileAdd fileCode

uhrahmatov Initial commit3b3533d now1 commit

config	Initial commit	now
template	Initial commit	now
.gitattributes	Initial commit	now
.gitignore	Initial commit	now
.gitmodules	Initial commit	now
CHANGELOG.md	Initial commit	now
COURSE	Initial commit	now
LICENSE	Initial commit	now
Makefile	Initial commit	now
README.en.md	Initial commit	now
README.git-flow.md	Initial commit	now

About

No description, website, or topics provided.

Readme

CC-BY-4.0 license

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Most VisitedFedora DocsFedora MagazineFedora ProjectUser Communities

uhrahmatov@uhrahmatov:~/work/study/2022-2023/Архитекту...

+

🔍

☰

✕

tation-markdown-template.git) зарегистрирован по пути «template/presentation»
Подмодуль «template/report» (https://github.com/yamadharma/academic-laboratory-report-template.git) зарегистрирован по пути «template/report»
Клонирование в «/home/uhrahmatov/work/study/2022-2023/Архитектура компьютера/arch-pc/template/presentation»...
remote: Enumerating objects: 71, done.
remote: Counting objects: 100% (71/71), done.
remote: Compressing objects: 100% (49/49), done.
remote: Total 71 (delta 23), reused 68 (delta 20), pack-reused 0
Получение объектов: 100% (71/71), 88.89 КиБ | 2.17 МиБ/с, готово.
Определение изменений: 100% (23/23), готово.
Клонирование в «/home/uhrahmatov/work/study/2022-2023/Архитектура компьютера/arch-pc/template/report»...
remote: Enumerating objects: 78, done.
remote: Counting objects: 100% (78/78), done.
remote: Compressing objects: 100% (52/52), done.
remote: Total 78 (delta 31), reused 69 (delta 22), pack-reused 0
Получение объектов: 100% (78/78), 292.27 КиБ | 3.18 МиБ/с, готово.
Определение изменений: 100% (31/31), готово.
Submodule path 'template/presentation': checked out '2703b47423792d472694aaf7555a5626dce51a25'
Submodule path 'template/report': checked out 'df7b2ef80f8def3b9a496f8695277469a1a7842a'
[uhrahmatov@uhrahmatov Архитектура компьютера]\$

Настройка каталога курса

```
Submodule path 'template/presentation': checked out '2703b47423792d472094aa17333a5626dce51a25'
Submodule path 'template/report': checked out 'df7b2ef80f8def3b9a496f8695277469a1a7842a'
[uhrahmatov@uhrahmatov Архитектура компьютера]$ cd ~/work/study/2022-2023/"Архитектура компьютера"/arch-pc
[uhrahmatov@uhrahmatov arch-pc]$ rm package.json
[uhrahmatov@uhrahmatov arch-pc]$ echo arch-pc > COURSE
[uhrahmatov@uhrahmatov arch-pc]$ make
[uhrahmatov@uhrahmatov arch-pc]$
```

Загрузка отчетов

```
uhrahmatov@uhrahmatov:~/work/study/2022-2023/Архитекту...
create mode 100644 labs/lab10/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab10/report/report.md
create mode 100644 labs/lab11/presentation/Makefile
create mode 100644 labs/lab11/presentation/image/kulyabov.jpg
create mode 100644 labs/lab11/presentation/presentation.md
create mode 100644 labs/lab11/report/Makefile
create mode 100644 labs/lab11/report/bib/cite.bib
create mode 100644 labs/lab11/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab11/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab11/report/report.md
delete mode 100644 package.json
create mode 100644 prepare
[uhrahmatov@uhrahmatov arch-pc]$ git push
Перечисление объектов: 22, готово.
Подсчет объектов: 100% (22/22), готово.
При сжатии изменений используется до 4 потоков
Сжатие объектов: 100% (16/16), готово.
Запись объектов: 100% (20/20), 310.94 КиБ | 3.47 МиБ/с, готово.
Всего 20 (изменений 1), повторно использовано 0 (изменений 0), повторно использо
вано пакетов 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:uhrahmatov/arch-pc.git
   3b3533d..75e469e  master -> master
[uhrahmatov@uhrahmatov arch-pc]$
```

Вывод:

В ходе выполнения работы изучили возможности команд консоли.