

РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

Факультет физико-математических и естественных наук

Кафедра прикладной информатики и теории вероятностей

ОТЧЕТ

ПО ЛАБОРАТОРНОЙ РАБОТЕ № 2

дисциплина: операционные системы

Студент: МАССИБУ ДАВИД ЛЕВИ

Группа: НПИбд-01-20

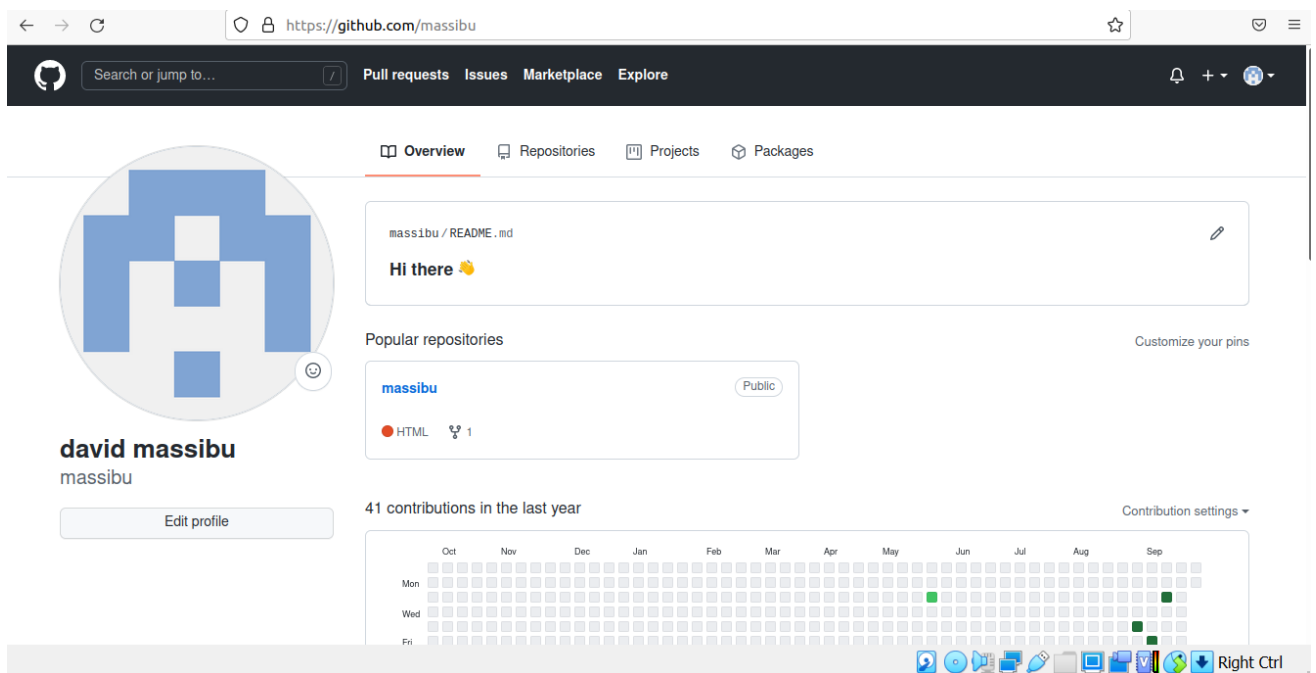
МОСКВА

Цель работы:

Изучить идеологию и применение средств контроля версий.

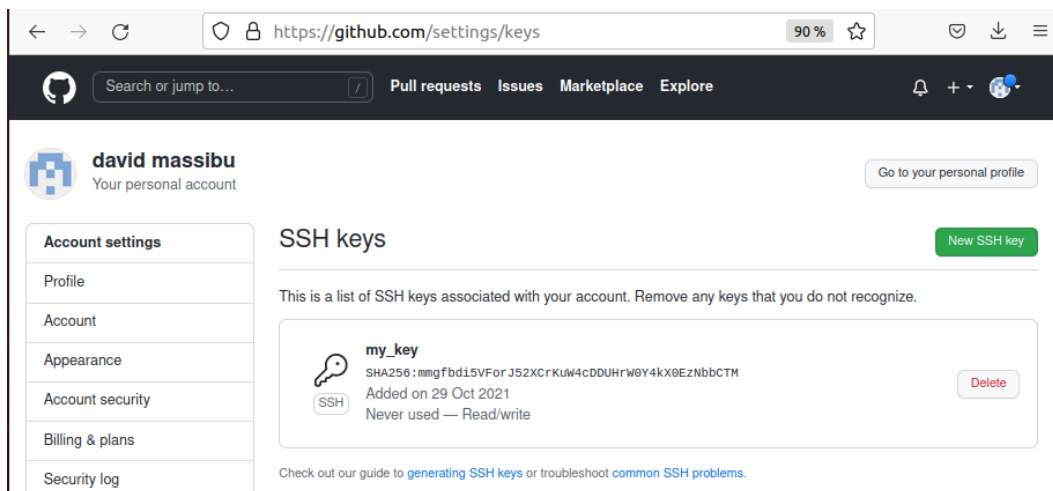
Ход работы:

1. Я создал учётную запись на <https://github.com>.

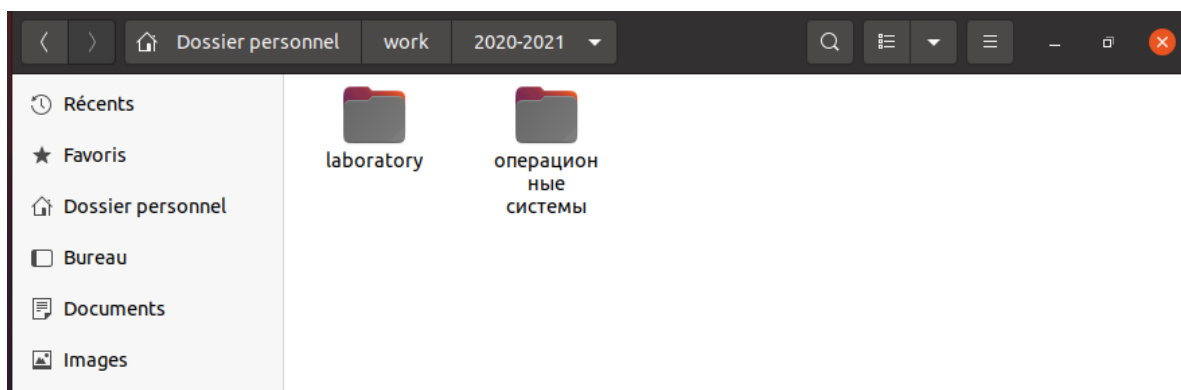


2. Я настроил систему контроля версий git и добавил SSH keys.

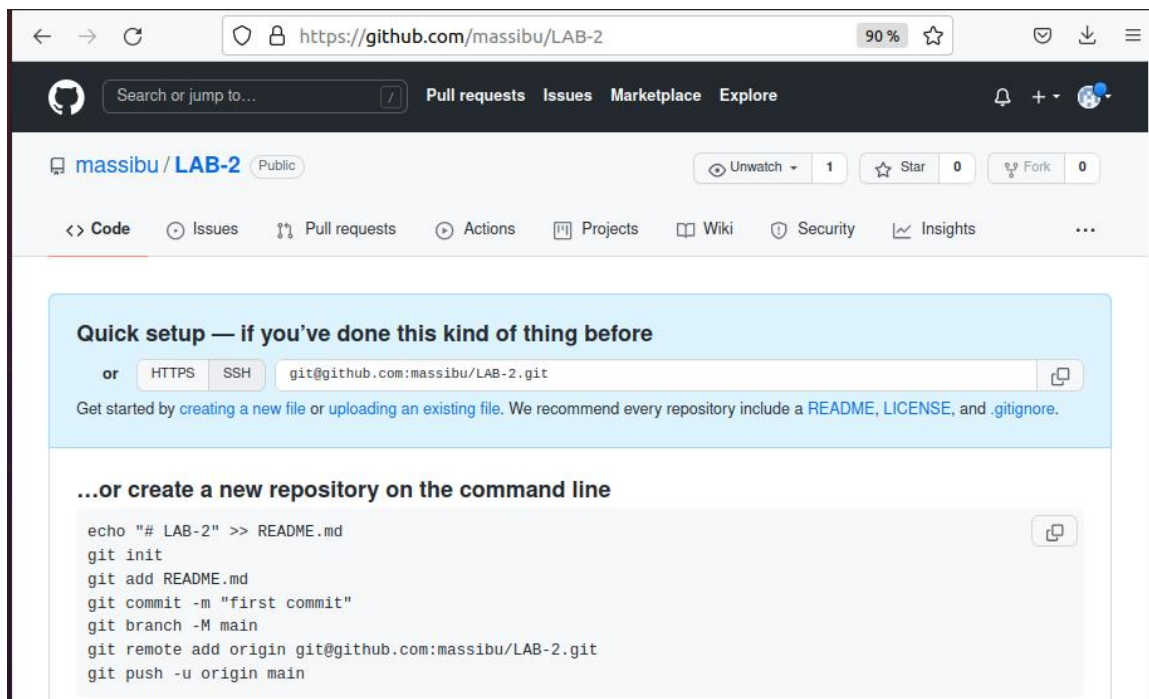
```
massibu@massibu-VirtualBox: ~/work/2020-2021/laboratory/LAB-2
massibu@massibu-VirtualBox:~$ ssh-keygen -C "david massibu <massibulevi@gmail.com>"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/massibu/.ssh/id_rsa):
/home/massibu/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/massibu/.ssh/id_rsa
Your public key has been saved in /home/massibu/.ssh/id_rsa.pub
The key fingerprint is:
S Rhythmbox bdi5VForJ52XCrKuW4cDDUhrW0Y4kX0EzNbbCTM david massibu <massibulevi@gmail.com>
The key's randomart image is:
+---[RSA 3072]-----+
|.+=.+|.
|.== E
|... *
|. = . o
|o + S o
| * B * o .
| + X % = o
|. o O * o
|O++ .
+----[SHA256]-----+
massibu@massibu-VirtualBox:~$ cat /home/massibu/.ssh/id_rsa.pub
```



3. Создал структуру каталога лабораторных работ



4. Создал репозиторий на GitHub

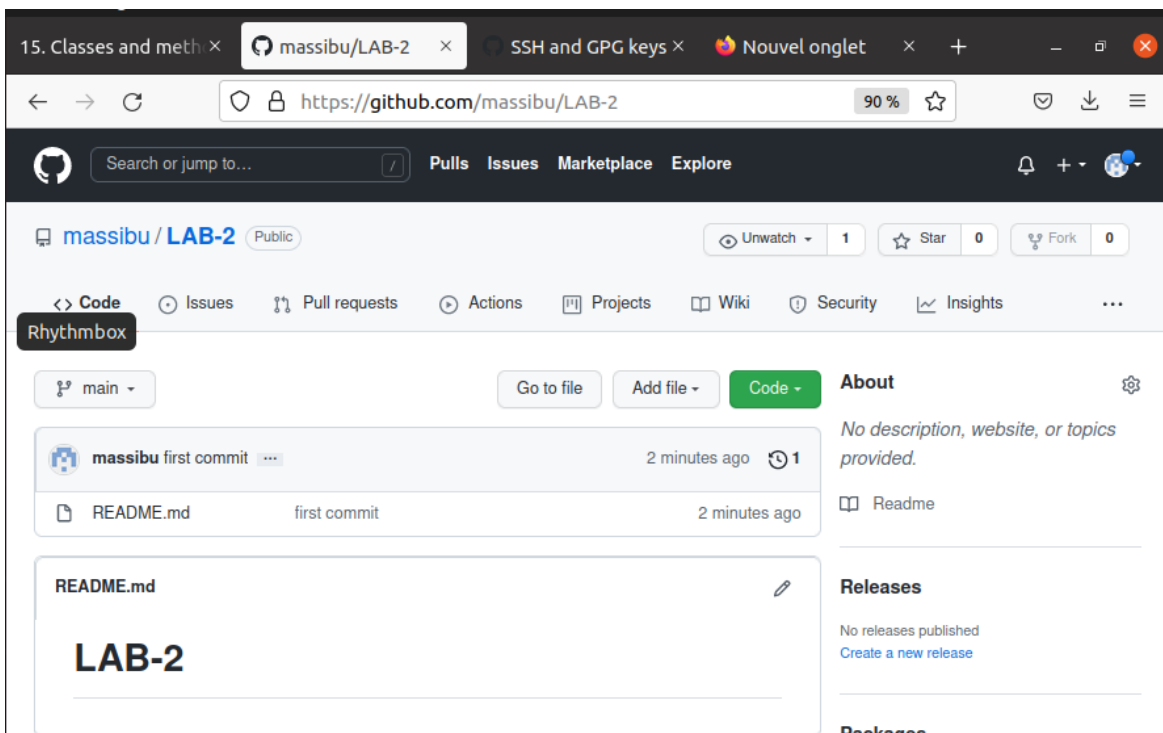


5. Подключение репозитория к github

- Мы сначала клонируем репозиторий в каталоге

- Инициализируем системы git: `git init`
- Создаём заготовку для файла README.md: `echo "# lab2" >> README.md` `git add README.md`
- Делаем первый коммит : `git commit -m "first commit"/` `git branch -M main/` `git remote add origin git@github.com:massibu/lab2.git`
- и выкладываем на github: `git push -u origin main`

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git clone git@github.com:massibu/LAB-2.git
Clonage dans 'LAB-2'...
warning: Vous semblez avoir cloné un dépôt vide.
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ echo "# LAB-2" >> README.md
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git init
Dépôt Git existant réinitialisé dans /home/massibu/work/2020-2021/laboratory/LAB-2/.git/
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add README.md
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git commit -m "first commit"
[master (commit racine) 469044c] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git branch -M main
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git remote add origin git@github.com:massibu/LAB-2.git
fatal: la distante origin existe déjà.
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push -u origin main
Énumération des objets: 3, fait.
Décompte des objets: 100% (3/3), fait.
Écriture des objets: 100% (3/3), 216 octets | 108.00 Kio/s, fait.
Total 3 (delta 0), réutilisés 0 (delta 0)
To github.com:massibu/LAB-2.git
 * [new branch]      main -> main
La branche 'main' est paramétrée pour suivre la branche distante 'main' depuis 'origin'.
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ wge
```



6. Первичная конфигурация
 - Добавил файл лицензии
 - Добавил шаблон игнорируемых файлов
 - Затем скачал шаблон для с
 - Добавил новые файлы

- Выполнил коммит
- Отправил на github

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ wget https://creativecommons.org/licenses/by/4.0/legalcode.txt -O LICENSE
--2021-10-29 17:15:47-- https://creativecommons.org/licenses/by/4.0/legalcode.txt
Résolution de creativecommons.org (creativecommons.org)... 104.20.151.16, 104.20.150.16, 172.67.34.140....
C Rhythmbox ers creativecommons.org (creativecommons.org)|104.20.151.16|:443... connecté.
requête HTTP transmise, en attente de la réponse... 200 OK
Taille : non spécifié [text/plain]
Enregistre : «LICENSE»
```

```
LICENSE [ <=> ] 18,22K --.-KB/s ds 0,08s
2021-10-29 17:15:48 (224 KB/s) - «LICENSE» enregistré [18657]
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ curl -L -s https://www.gitignore.io/api/list
1c,1c-bitrix,a-frame,actionscript,ada
adobe,advancedinstaller,adventuregamestudio,agda,al
alteraquartusii,altium,amplify,android,androidstudio
angular,anjuta,ansible,ansibletower,apachecordova
apachehadoop,appbuilder,appcelerator titanium,appcode,appcode+all
appcode+iml,appengine,aptanastudio,arcanist,archive
archives,archlinuxpackages,aspnetcore,assembler,ate
atmelstudio,ats,audio,automationstudio,autotools
autotools+strict,awr,azurefunctions,azurite,backup
ballerina,basercms,basic,batch,bazaar
bazel,bitrise,bitrix,bittorrent,blackbox
bloop,bluej,bookdown,bower,bricxcc
buck,c,c++,cake,cakephp
cakephp2,cakephp3,calabash,carthage,certificates
ceylon,cfwheels,chefcookbook,chocolatey,clean
clion,clion+all,clion+iml,clojure,cloud9
cmake,cocoapods,cocos2dx,cocoscreator,codeblocks
codecomposerstudio,codeigniter,codeio,codekit,codesniffer
coffeescript,commonlisp,compodoc,composer,compressed
compressedarchive,compression,conan,concrete5,coq
cordova,craftcms,crashlytics,crbasic,crossbar
crystal,cs-cart,csharp,cuda,cvs
cypressio,d,dart,darteditor,data
database,datarecovery,dbeaver,defold,delphi
dframe,diff,direnv,diskimage,django
```

```
putty,pvs,pycharm,pycharm+all,pycharm+iml
pydev,python,pythonvanilla,qml,qoxxdoo
qt,qtcreator,r,racket,rails
react,reactnative,reasonml,red,redcar
redis,retool,rhodesrhmobile,rider,robotframework
root,ros,ros2,ruby,rubymine
rubymine+all,rubymine+iml,rust,salesforce,salesforcedx
sam,sam+config,sas,sass,sbt
scala,scheme,scons,scrivener,sdcc
seamgen,senchatouch,serverless,shopware,silverstripe
sketchup,slickedit,smalltalk,snap,snapcraft
solidity,soliditytruffle,sonar,sonarqube,sourcepawn
spark,splunk,spreadsheet,ssh,standardml
stata,stdlib,stella,stellar,storybookjs
strapi,stylus,sublimetext,sugarcrm,svn
swift,swiftpackagemanager,swiftpm,symfony,symphonycms
synology,synopsysvcs,tags,tarinstallmate,terraform
terragrunt,test,testcomplete,testinfra,te
text,textmate,textpattern,theos-tweak,thinkphp
tla+,tortoisegit,tower,turbogears2,twincat3
tye,typings,typo3,typo3-composer,umbraco
unity,unrealengine,vaadin,vagrant,valgrind
vapor,venv,vertex,video,vim
virtualenv,virtuoso,visualstudio,visualstudiocode,vivado
vlab,vs,vue,vuejs,vvvv
w Terminal da,web,webmethods,webstorm
webstorm+all,webstorm+iml,werckercli,windows,wintersmith
wordpress,wyam,xamarinstudio,xcode,xcodeinjection
xilinx,xilinxise,xilinxvivado,xill,xojo
xtext,y86,yalc,yarn,yeoman
yii,yii2,zendframework,zephir,zig
```

```
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add .gitignore LICENSE
fatal: le chemin '.gitignore' ne correspond à aucun fichier
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ curl -L -s https://www.gitignore.io/api/c >> .gitignore
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add .gitignore LICENSE
```

```

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add .gitignore LICENSE
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git commit -a
[main 1a22209] second commit
2 files changed, 455 insertions(+)
create mode 100644 .gitignore
create mode 100644 LICENSE
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push
Énumération des objets: 5, fait.
Décompte des objets: 100% (5/5), fait.
Compression des objets: 100% (4/4), fait.
Écriture des objets: 100% (4/4), 6.43 Kio | 1.61 Mio/s, fait.
Total 4 (delta 0), réutilisés 0 (delta 0)
To github.com:massibu/LAB-2.git
469044c..1a22209 main -> main
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow init

```

7. Конфигурация git-flow

- Инициализировал git-flow
- Проверил что я на ветке develop
- Создал релиз с версией 1.0.0
- Запишем версию:
- Добавим в индекс:
- Залил релизную ветку в основную ветку
- Отправил данные на github
- Создал релиз на github.

```

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow init
Which branch should be used for bringing forth production releases?
- main
Branch name for production releases: [main]
Branch name for "next release" development: [develop]

How to name your supporting branch prefixes?
Feature branches? [feature/]
Bugfix branches? [bugfix/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? [] v
Hooks and filters directory? [/home/massibu/work/2020-2021/laboratory/LAB-2/.git/hooks]
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git branch
* develop
main
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow release start 1.0.0
Basculement sur la nouvelle branche 'release/1.0.0'

Summary of actions:
- A new branch 'release/1.0.0' was created, based on 'develop'
- You are now on branch 'release/1.0.0'

Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish '1.0.0'

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ echo "1.0.0" >> VERSION
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add VERSION

```

```

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git add VERSION
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git commit -am 'chore(main): add version'
[release/1.0.0 c921b5f] chore(main): add version
 1 file changed, 1 insertion(+)
 create mode 100644 VERSION
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git flow release finish 1.0.0
Basculement sur la branche 'main'
Votre branche est à jour avec 'origin/main'.
Merge made by the 'recursive' strategy.
 Ubuntu Software, 1 insertion(+)
 create mode 100644 VERSION
Déjà sur 'main'
Votre branche est en avance sur 'origin/main' de 2 commits.
(utilisez "git push" pour publier vos commits locaux)
Basculement sur la branche 'develop'
Merge made by the 'recursive' strategy.
 VERSION | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 VERSION
Branche release/1.0.0 supprimée (précédemment c921b5f).

Summary of actions:
- Release branch 'release/1.0.0' has been merged into 'main'
- The release was tagged 'v1.0.0'
- Release tag 'v1.0.0' has been back-merged into 'develop'
- Release branch 'release/1.0.0' has been locally deleted
- You are now on branch 'develop'

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push --all

```

```

massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push --all
Énumération des objets: 6, fait.
Décompte des objets: 100% (6/6), fait.
Compression des objets: 100% (4/4), fait.
Écriture des objets: 100% (5/5), 500 octets | 83.00 Kio/s, fait.
Total 5 (delta 3), réutilisés 0 (delta 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:massibu/LAB-2.git
 1a22209..c004e2b  main -> main
* [new branch]      develop -> develop
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$ git push --tags
Énumération des objets: 1, fait.
Décompte des objets: 100% (1/1), fait.
Écriture des objets: 100% (1/1), 157 octets | 22.00 Kio/s, fait.
Total 1 (delta 0), réutilisés 0 (delta 0)
To github.com:massibu/LAB-2.git
* [new tag]         v1.0.0 -> v1.0.0
massibu@massibu-VirtualBox:~/work/2020-2021/laboratory/LAB-2$

```

← → ↻ <https://github.com/massibu/LAB-2> 90% ☆

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<> Code Issues Pull requests Actions Projects Wiki Security Insights ...

develop had recent pushes less than a minute ago [Compare & pull request](#)

main Go to file Add file Code

massibu Merge branch 'release/1.0.0' into main 1 minute ago 4		
.gitignore	second commit	25 minutes ago
LICENSE	second commit	25 minutes ago
README.md	first commit	34 minutes ago
VERSION	chore(main): add version	2 minutes ago

VBBox_GAs_6.1.26

README.md

LAB-2

About [No description, website, or topics provided.](#)

[Readme](#)

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Releases

[1 tags](#)

[Create a new release](#)

Packages

No packages published

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Вывод:

Я Изучил идеологию и применение средств контроля версий.