-

№ 2

:

: -02-20

2021 .

:

. .

git , ,
, github, .

:

0. Git
1. GitHub

```
georges@georges-VirtualBox:~/program/2020-2021$ git init
Initialized empty Git repository in /home/georges/program/2020-2021/.git/
georges@georges-VirtualBox:~/program/2020-2021$ git add README.md
georges@georges-VirtualBox:~/program/2020-2021$ git commit -m "first commit"
[master (root-commit) ae3d34a] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
georges@georges-VirtualBox:~/program/2020-2021$ git branch -M main
georges@georges-VirtualBox:~/program/2020-2021$ git remote add origin git@github.com:gedeongeorges/lab-2.
git
```

2.
(1)

```
georges@georges-VirtualBox:~/program/2020-2021$ git add .
georges@georges-VirtualBox:~/program/2020-2021$ git commit -a
Aborting commit due to empty commit message.
```

3.
(2)

```
georges@georges-VirtualBox:~/program/2020-2021$ git commit -m "first commit"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
georges@georges-VirtualBox:~/program/2020-2021$
```
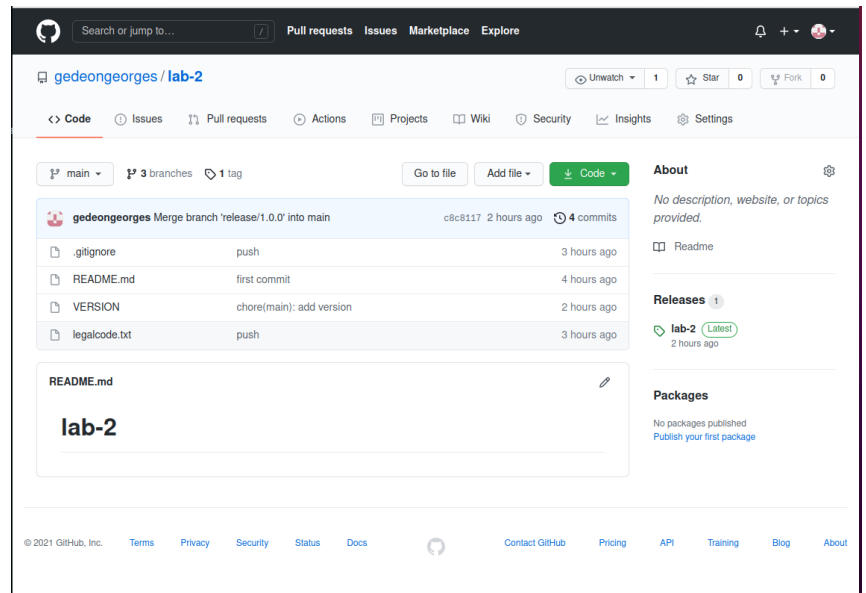
4.
(3)

```
create mode 100644 legalcode.txt
georges@georges-VirtualBox:~/program/2020-2021$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 6.44 KiB | 329.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:gedeongeorges/lab-2.git
   ae3d34a..4630a62  main -> main
georges@georges-VirtualBox:~/program/2020-2021$ git flow init
```

5. .
(4)

6.   .

（图 5）

7.   Git

8.   wget.

（图 6）

```
georges@georges-VirtualBox:~/program/2020-2021$ 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,appceleratortitanium,appcode,appcode+all
appcode+iml,appengine,aptanastudio,arcanist,archive
archives,archlinuxpackages,aspnetcore,assembler,ate
atmelstudio,ats,audio,automationstudio,autotools
autotools+strict,awr,azurefunctions,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,code-java,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
dm,docfx,docpress,docz,dotenv
dotfilessh,dotnetcore,dotsettings,dreamweaver,dropbox
drupal,drupal7,drupal8,e2studio,eagle
easybook,eclipse,eiffelstudio,elasticbeanstalk,elisp
elixir,elm,emacs,ember,ensime
episerver,erlang,espresso,executable,exercism
```

9.   .
(7)

10.   C++.
(8)

```
georges@georges-VirtualBox:~/program/2020-2021$ curl -L -s https://www.gitignore.io/c >> .gitignore
```

```
create mode 100644 legalcode.txt
georges@georges-VirtualBox:~/program/2020-2021$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 6.44 KiB | 329.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:gedeongeorges/lab-2.git
   ae3d34a..4630a62  main -> main
georges@georges-VirtualBox:~/program/2020-2021$ git flow init
```

11.   GitHub.
(9)

12.   GitFlow.

```
georges@georges-VirtualBox:~/program/2020-2021$ 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/georges/program/2020-2021/.git/hooks]
```

13.   GitFlow.
(10)

```
georges@georges-VirtualBox:~/program/2020-2021$ git branch
* develop
  main
```

14.   develop.
(11)

```
georges@georges-VirtualBox:~/program/2020-2021$ git flow release start 1.0.0
Switched to a new branch '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'
```

15.   1.0.0 .
    (12)

```
georges@georges-VirtualBox:~/program/2020-2021$ git flow release finish 1.0.0
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
Merge made by the 'recursive' strategy.
 VERSION | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 VERSION
Already on 'main'
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)
fatal: no tag message?
Fatal: Tagging failed. Please run finish again to retry.
```

16.
    (13)

```
georges@georges-VirtualBox:~/program/2020-2021$ git push --all
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 383 bytes | 383.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To github.com:gedeongeorges/lab-2.git
   4630a62..c8c8117  main -> main
 * [new branch]      develop -> develop
 * [new branch]      release/1.0.0 -> release/1.0.0
georges@georges-VirtualBox:~/program/2020-2021$ git push --tags
Everything up-to-date
```

17.
    (14)

1.   -   ,
            ,   -   .   ,

2. –   -   ,   – commit
   -   –
       ,   –   -
                   .   ,

        3.   ,
       ,   (Perforce)
                          ,   (Git)

3.   .   , . .   ,
                                ,

4.   ,
       .

5.   ,   ,   .

6. – git init -   – git add -   – git
   commit -   – git pull -   – git push -

– git checkout - – git status -
– git branch - – git remote add -

7. , , git branch .
git init
git remote add, git add git commit,
git push.
8. . , , ,
, .
, . , ,
9. , .
.gitignore, .

Git, : ,
, , .
Git Flow, .