

## Kā lietot versiju vadības sistēmu?

### Sasniedzamais rezultāts

Lietoju vienu versiju vadības rīku programmatūras risinājuma izstrādes procesā.

### Kā izveido jaunu repozitoriju?

1. Lai lietotu *git* komandas, to nepieciešams instalēt. Instalāciju var iegūt vietnē <https://git-scm.com/>.
2. Lai strādātu komandā un dalītos ar savu kodu, jālieto kāds no versijas vadības sistēmas servisiem, piemēram, *GitHub* (<https://github.com/>), kurā nepieciešams izveidot savu kontu.
3. *GitHub* izveido tukšu repozitoriju.

### Create a new repository


A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)

#### Repository template

Start your repository with a template repository's contents.

No template ▼

Owner \*

 marisdanne ▼

Repository name \*

/ prog-1-git ✓

Great repository names are short and memorable. Need inspiration? How about **stunning-octo-funicular**?

#### Description (optional)

Mans pirmais git projekts

☒  **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.

#### Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ **Add a README file**

This is where you can write a long description for your project. [Learn more.](#)

☐ **Add .gitignore**

Choose which files not to track from a list of templates. [Learn more.](#)

☐ **Choose a license**

A license tells others what they can and can't do with your code. [Learn more.](#)

Create repository

**Quick setup — if you've done this kind of thing before**

or

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

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**...or create a new repository on the command line**

```

echo "# prog-1-git" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M master
git remote add origin https://github.com/marisdanne/prog-1-git.git
git push -u origin master
    
```

---

**...or push an existing repository from the command line**

```

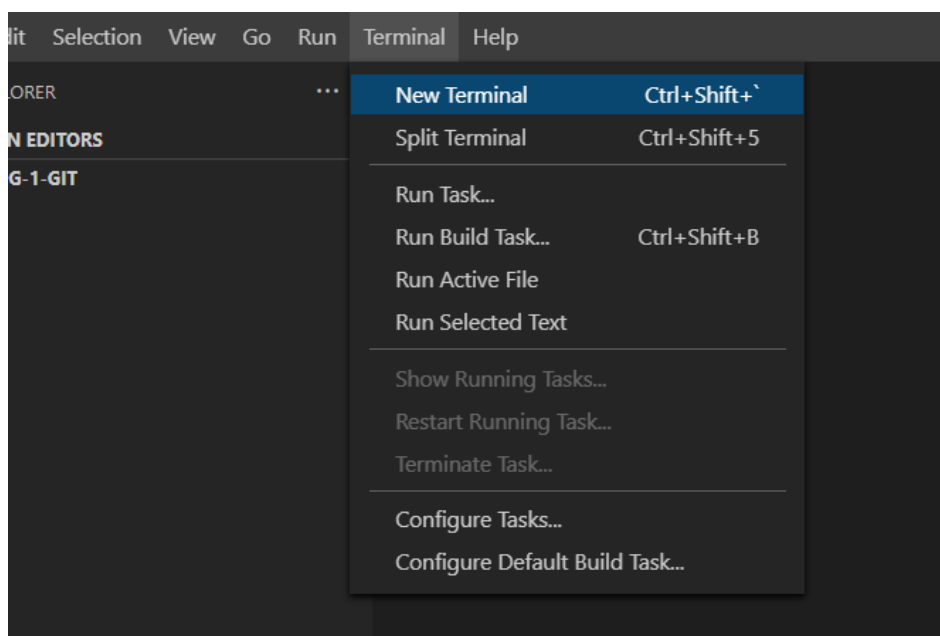
git remote add origin https://github.com/marisdanne/prog-1-git.git
git branch -M master
git push -u origin master
    
```

---

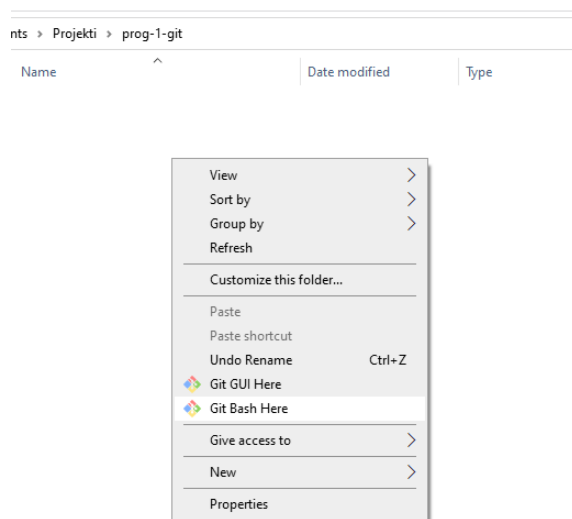
**...or import code from another repository**

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

4. Uz datora lokāli izveido mapi, kurā atradīsies projekts, un atver šo mapi ar *Visual studio code* vai kādu citu koda redaktoru.
5. Atver sistēmas komandrindu:
  - ja izmanto *Visual studio code*, augšā izvēlas *Terminal* → *New Terminal*;



- ja izmanto kādu citu redaktoru, tad projekta mapē ar labo klikšķi izvēlas “*Git Bash Here*”.

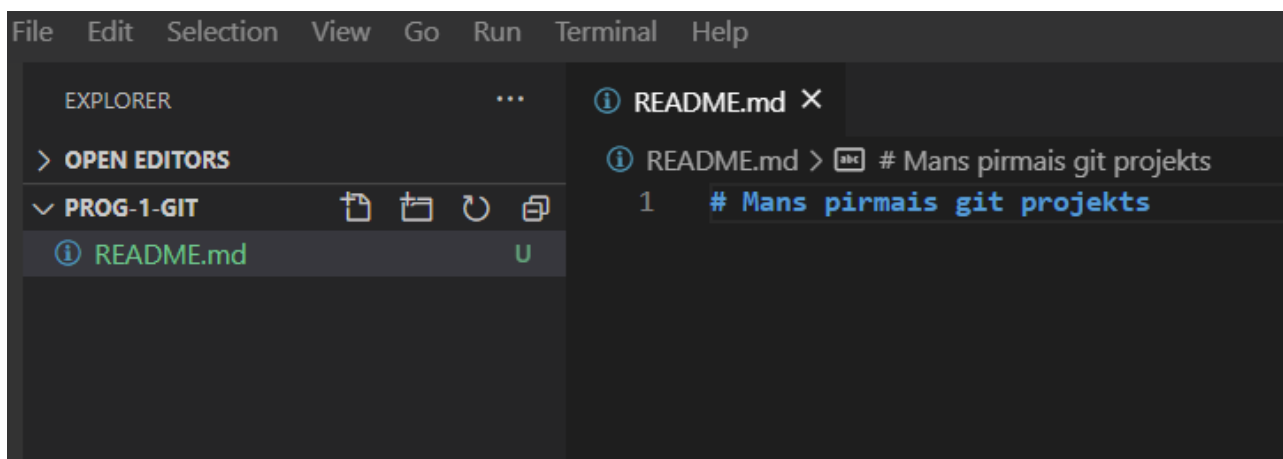


## 6. Komandrindā ieraksta un izpilda komandu

*git init*

```
PS C:\Users\user\Documents\Projekti\prog-1-git> git init
Initialized empty Git repository in C:/Users/user/Documents/Projekti/prog-1-git/.git/
PS C:\Users\user\Documents\Projekti\prog-1-git> █
```

## 7. Projekta mapē izveido datni ar nosaukumu *README.md* un ieraksta tekstu.



## 8. Nākamajās komandrindās izpilda komandas

*git add .* un *git commit -m "Init commit"*

```
PS C:\Users\user\Documents\Projekti\prog-1-git> git add .
PS C:\Users\user\Documents\Projekti\prog-1-git> git commit -m "Init commit"
[master (root-commit) a9782b7] Init commit
1 file changed, 1 insertion(+)
 create mode 100644 README.md
PS C:\Users\user\Documents\Projekti\prog-1-git> █
```

9. Tad izpilda komandu

*git remote add origin* [šeit tiek norādīta saite uz repozitoriju *GitHub*]

```
PS C:\Users\user\Documents\Projekti\prog-1-git> git remote add origin https://github.com/marisdanne/prog-1-git.git
PS C:\Users\user\Documents\Projekti\prog-1-git> 
```

10. Lai augšupielādētu izmaiņas *GitHub*, izpilda komandu

*git push -u origin master*

```
PS C:\Users\user\Documents\Projekti\prog-1-git> git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 242 bytes | 242.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/marisdanne/prog-1-git.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
PS C:\Users\user\Documents\Projekti\prog-1-git> 
```

11. Atjauno *GitHub* repozitorija lapu, kurā vajadzētu parādīties *README.md* datnes saturam.

master
1 branch
0 tags
Go to file
Add file
Code

marisdanne
Init commit
a9782b7 3 minutes ago 1 commits

README.md

Init commit
3 minutes ago

README.md

# Mans pirmais git projekts

## Kā veikt izmaiņas jau esošā repozitorijā?

1. Ja repozitorijs lokāli neeksistē, tad sākumā ir jādodas uz mapi (vietu), kurā vēlas saglabāt projektu, tad jāizvēlas ar labo peles klikšķi “*Git Bash Here*” un jāizpilda komanda  
*git clone* [šeit adrese uz *git* repozitoriju]

```

MINGW64:/c/Users/user/Documents
user@DESKTOP-7UHOLKQ MINGW64 ~/Documents
$ git clone https://github.com/marisdanne/prog-1-git
Cloning into 'prog-1-git'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 222 bytes | 14.00 KiB/s, done.
user@DESKTOP-7UHOLKQ MINGW64 ~/Documents
$ |
    
```

2. Tad atver šo mapi un veic nepieciešamās izmaiņas.

```

EXPLOER
> OPEN EDITORS
PROG-1-GIT
  <> index.html
  ⓘ README.md
  <> index.html > html
1  <!DOCTYPE html>
2  <html lang="lv">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Mana pirmā lapa!</title>
7  </head>
8  <body>
9    <h1>Sveika, pasaule!</h1>
10 </body>
11 </html>
    
```

3. Izpilda komandas  
*git add*.  
*git commit -m* “[Šeit ziņa par izmaiņām, kas ir veiktas]”

```

PS C:\Users\user\Documents\prog-1-git> git add .
PS C:\Users\user\Documents\prog-1-git> git commit -m "Pievienots index.html"
[master fa6ade2] Pievienots index.html
1 file changed, 11 insertions(+)
create mode 100644 index.html
PS C:\Users\user\Documents\prog-1-git> |
    
```

4. Veic augšupielādi *GitHub* ar komandu  
*git push*

```
PS C:\Users\user\Documents\prog-1-git> git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 465 bytes | 465.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/marisdanne/prog-1-git
   a9782b7..fa6ade2  master -> master
PS C:\Users\user\Documents\prog-1-git> █
```

5. Lai turpmāk saglabātu izmaiņas, atkārtoti darbības sākot ar 3. punktu.