

Git/GitHub: Installation



15/11/2023 - Filip J. Cierkosz



Aims

The aim of this guide is to teach you how to:

- Install git on your machine
- Create a GitHub account
- Connect your GitHub account on your machine

Step 1: Git Installation

Firstly, consider:

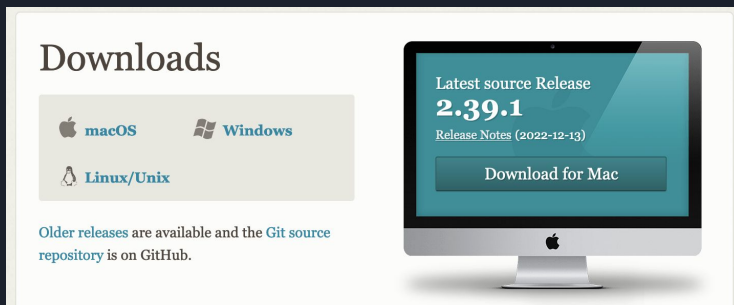
- Git might already be installed on your machine (e.g. Linux, macOS)
- Thus, open terminal and type:

```
> git version  
git version 2.39.1
```

- If the version appears (might be different than the example), then you already have it on your machine

Otherwise, follow the installation guidelines:

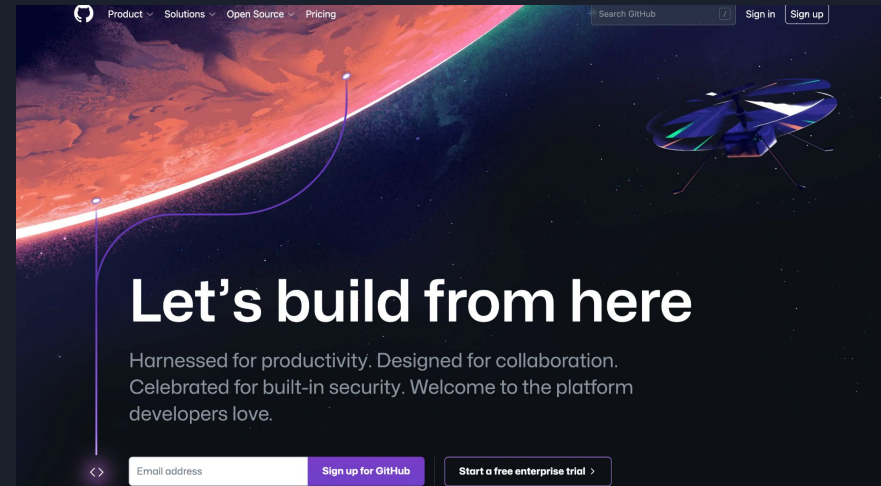
- Download from (select OS):
<https://git-scm.com/download>
- Make sure to select the correct OS
- Make sure to use the latest version



Step 2: Create a GitHub Account

GitHub sign-up process:

- Follow the link to start a free account: github.com
- Proceed with the tasks - might take a couple of minutes - just need to provide basic information (name, email, etc.)
- The free account is more than enough for majority of tasks
- Students should be able to get a PRO account free of charge
- PRO account might be useful in the future job



Step 3: Connect GitHub on Your Machine (#1)

- Open your terminal and execute commands to set your Git credentials:

```
> git config --global user.name "Your Name"
```

```
> git config --global user.email "your@email.com"
```

- Verify by running:

```
> git config --list
```

- From the home path, navigate to SSH directory and check for existence of the files:

```
> cd ~/.ssh
```

```
> ((ls id_rsa && ls id_rsa.pub) && echo yes) || echo no  
id_rsa  
id_rsa.pub  
yes
```

Step 3: Connect GitHub on Your Machine (#2)

- In case the last command failed, generate a key by running the command::


```
> ssh-keygen -t rsa -C "your_email@example.com"
```

```
> pbcopy < ~/.ssh/id_rsa.pub
```

- You just copied your SSH key!
- Go to github.com and select "Account Settings"
- Click "SSH Keys"
- Add a label (e.g. "MacBook-John") and paste the copied key
- Go back to your terminal, execute the command and expect similar result:

```
> ssh -T git@github.com
```

```
Hi chizo4! You've successfully authenticated, but GitHub does not provide shell access.
```



**That's it! Git should be all set
up on your machine now.
Thank you and I hope you
found these slides useful!**



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Resources

- Git. “1.5 Getting Started - Installing Git”. Available at:
<https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>
- K. Bromand. “Your first time with git and github”. Available at:
https://kbroman.org/github_tutorial/pages/first_time.html