

# Utiliser Github

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**Objectif :** on va collaborer avec d'autres personnes sur github

Pour cela on va dans un premier temps créer un dossier en local sur lequel on va travailler et pouvoir envoyer sur le github

## Mise en place de votre nom et email pour pouvoir utiliser github

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

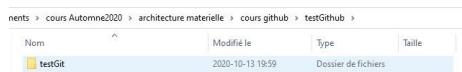
```
git config --global user.email "your_email@whatever.com"
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [version 10.0.19042.1348]
(c) Microsoft Corporation. Tous droits réservés.

C:\Users\Nghrieb\Documents\1WE\dossier git>git config --global user.name "Najoua Ghrieb"
C:\Users\Nghrieb\Documents\1WE\dossier git>git config --global user.email "najoua.ghrieb@bdeb.qc.ca"
C:\Users\Nghrieb\Documents\1WE\dossier git>
```

## Étape 1 : Créer un git local comme dépôt

Ouvrir Git bash à partir d'un dossier ou vous voulez créer votre repository en local



```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub
$ mkdir testGit

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub
$ ls
testGit/

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub
$ cd testGit
```

Puis lancer la commande qui permet d'initialiser un dossier git en local : git init



```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit
$ git init
Initialized empty Git repository in C:/Users/PC/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit/.git

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ |
```

On vérifie : avec git status

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ |
```

Par Najoua Ghrieb

On va créer un fichier de votre choix :

```
lar PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ touch index.html

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ ls
index.html
```

On va faire un git add pour ajouter nos fichiers dans la zone « staging » qui permet de les surveiller.

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    index.html

nothing added to commit but untracked files present (use "git add" to track)

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ |
```

Par Najoua Ghrieb

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/cours github/testGithub/testGit (master)
$ git add index.html

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/cours github/testGithub/testGit (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   index.html

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/cours github/testGithub/testGit (master)
```

On va faire un commit qui est comme un « snapshot » à un moment particulier et nous permettra de revenir en arrière si besoin.

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ git commit -m "add index.html fichier vide"
[master (root-commit) e90178a] add index.html fichier vide
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ |
```

Pour voir les commit, via la commande : git log

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ git log
commit e90178a845fb145221a4cdbe4c64a06b2f17c320 (HEAD -> master)
Author: Najoua Ghrieb <najoua.ghrieb@bdeb.qc.ca>
Date:   Tue Oct 13 20:11:42 2020 -0400

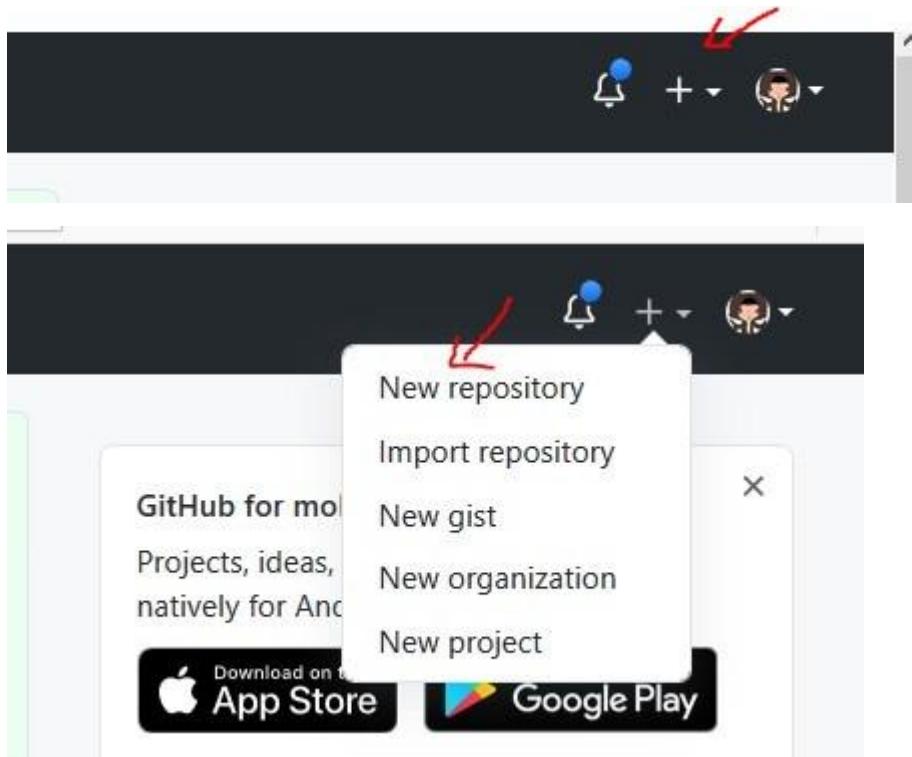
  add index.html fichier vide

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materiel/cours github/testGithub/testGit (master)
$ |
```

Pour revenir à un certain commit : git checkout <commit-hash>

## Étape 2 : aller sur github et créer un nouveau repository

Créer au préalable un compte sur le site de github <https://github.com/>



Par Najoua Ghrieb

**Repository template**

Start your repository with a template repository's contents.

No template ▾

Owner \*



najoua-tech ▾

Repository name \*



/ tes1



Great repository names are short and memorable. Need inspiration? How about [friendly-octo-spoon](#)?

Description (optional)

Test pour le cours d'architecture matériel

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

Cela génère la page suivante :

Par Najoua Ghrieb

The screenshot shows a GitHub repository page for 'najoua-tech / tes1'. At the top, there are navigation links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A 'Unwatch' button with a count of 1 is also present. Below the header, a section titled 'Quick setup — if you've done this kind of thing before' provides instructions for setting up a new repository. It includes options to 'Set up in Desktop' or 'HTTPS' or 'SSH' (with the URL <https://github.com/najoua-tech/tes1.git>). It also suggests creating a new file or uploading an existing one, and recommends including a README, LICENSE, and .gitignore. Below this, there are four command-line snippets:

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

```
echo "# tes1" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/najoua-tech/tes1.git
git push -u origin main
```
- ...or push an existing repository from the command line**

```
git remote add origin https://github.com/najoua-tech/tes1.git
git branch -M main
git push -u origin main
```
- ...or import code from another repository**

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

Import code

Si je n'ai pas de repo local, il me donne la manière de le faire ici :

This screenshot shows the same GitHub repository page for 'najoua-tech / tes1'. The 'Quick setup' section is visible again, but the focus is on the command-line snippets. The first snippet is highlighted with a larger font size:

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

```
echo "# tes1" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/najoua-tech/tes1.git
git push -u origin main
```

Si vous avez un repository, faire les 2 commandes suivantes, comme dans notre cas :

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

```
git remote add origin https://github.com/najoua-tech/tes1.git  
git branch -M main  
git push -u origin main
```

```
git remote add origin https://github.com/najoua-tech/tes1.git git  
branch -M main  
git push -u origin main
```

La commande : remote est comme un lien vers un url

origin est le terme de votre remote qui est un nom standard (qu'il est possible de modifier)

Avant dans votre machine, vous allez tester si vous êtes connecté à une machine distante par la commande : **git remote -v**

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours  
/cours github/testGithub/testGit (master)  
$ git remote -v  
  
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours  
/cours github/testGithub/testGit (master)  
$ |
```

### Étape 3 : Connecter votre repo local à votre github

On se connecte à la machine distante :

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architec  
/cours github/testGithub/testGit (master)  
$ git remote add origin https://github.com/najoua-tech/tes1.git
```

Si on reteste la commande : on voit qu'on a bien un remote avec le nom origin

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/ar  
/cours github/testGithub/testGit (master)  
$ git remote -v  
origin https://github.com/najoua-tech/tes1.git (fetch)  
origin https://github.com/najoua-tech/tes1.git (push)  
  
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/ar
```

#### Étape 4 : pousser ou « push » votre code vers github

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mate  
/cours github/testGithub/testGit (master)  
$ git push -u origin master  
Enumerating objects: 3, done.  
Counting objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 228 bytes | 228.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
To https://github.com/najoua-tech/tes1.git  
 * [new branch] master -> master  
Branch 'master' set up to track remote branch 'master' from 'origin'.  
  
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mate  
/cours github/testGithub/testGit (master)  
$ |
```

On rafraîchit la page :

Votre fichier est bien là

Par Najoua Ghrieb

The screenshot shows a GitHub repository page for 'najoua-tech / tes1'. At the top, a banner reads 'Learn Git and GitHub without any code!'. Below it, a message says 'Using the Hello World guide, you'll start a branch, write comments, and open a pull request.' A green button labeled 'Read the guide' is visible. The main navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Under the 'Code' tab, there's a master branch summary showing 1 branch and 0 tags. A red arrow points to the first commit, which is a file named 'index.html' added by 'najoua-tech'. The commit message is 'add index.html fichier vide'. The commit was made 24 minutes ago and has 1 commit. A blue box at the bottom encourages adding a README, with a green 'Add a README' button.

Vous pouvez cliquer sur les commits :

This screenshot shows the same GitHub repository page as above, but with a red arrow pointing to the commit message 'add index.html fichier vide' in the list of commits. The rest of the interface is identical to the first screenshot.

Par Najoua Ghrieb

The screenshot shows a GitHub repository interface. At the top, there's a navigation bar with links for 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', and a search icon. Below this, a dropdown menu shows 'master'. A red arrow points to a commit entry. The commit details are as follows:

- Commits on Oct 13, 2020**
- add index.html fichier vide** (highlighted by a red bracket)
- najoua-tech committed 26 minutes ago**

Below the commit list, a detailed view of the commit is shown:

- add index.html fichier vide**
- master**
- najoua-tech committed 27 minutes ago**

Underneath, it says "Showing 1 changed file with 0 additions and 0 deletions." and shows a list with "0 index.html". It also states "No changes."

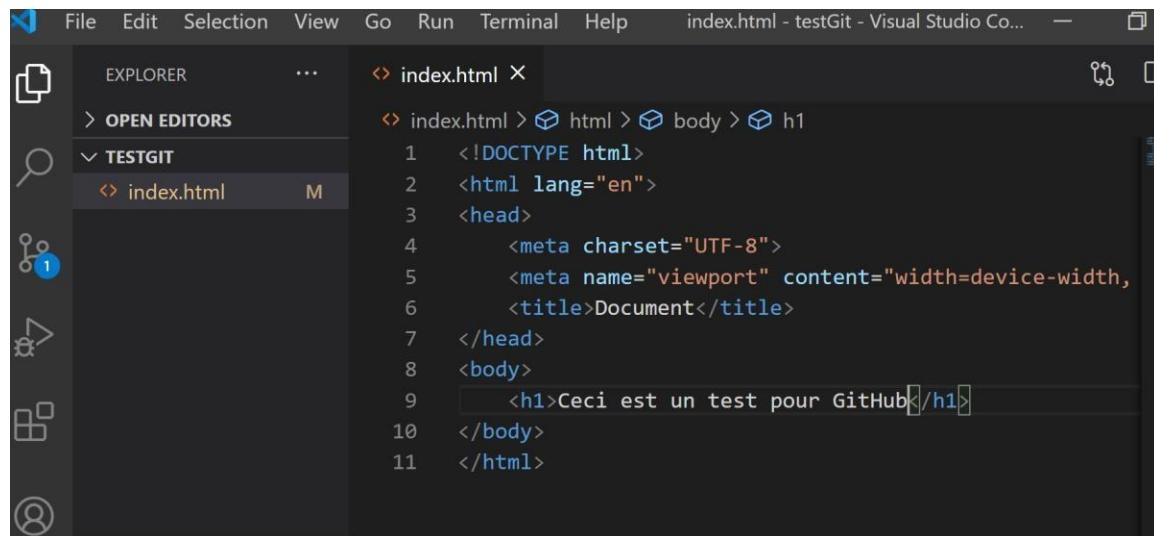
At the bottom, there's a comment section with "0 comments on commit e90178a" and a "Leave a comment" input field.

## Exercice 1 :

Admettons que je fais un autre changement localement, je refais la commande : git push -u origin master pour l'envoyer sur github

Je vais l'ouvrir avec visual studio et faire les modifications et les commandes nécessaires

## Solution de l'exercice 1 :



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
<title>Document</title>
</head>
<body>
    <h1>Ceci est un test pour GitHub</h1>
</body>
</html>
```

Faites tout en ligne de commande avec github

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mater
/cours github/testGithub/testGit (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mater
```

Ajout du fichier pour être suivi :

Par Najoua Ghrieb

```
MINGW64:/c/Users/PC/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ git add .

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   index.html

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ |
```

On fait le commit :

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ git commit -m "add a title h1 in index.html"
[master a57c762] add a title h1 in index.html
 1 file changed, 11 insertions(+)

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)
$ |
```

On vérifier l'historique des commits :

Par Najoua Ghrieb

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture
/cours github/testGithub/testGit (master)
$ git log
commit a57c7625664c833380f6b325a751a9330cf85de3 (HEAD -> master)
Author: Najoua Ghrieb <najoua.ghrieb@bdeb.qc.ca>
Date:   Tue Oct 13 20:45:44 2020 -0400

    add a title h1 in index.html

commit e90178a845fb145221a4cdbe4c64a06b2f17c320 (origin/master)
Author: Najoua Ghrieb <najoua.ghrieb@bdeb.qc.ca>
Date:   Tue Oct 13 20:11:42 2020 -0400

    add index.html fichier vide

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture
/cours github/testGithub/testGit (master)
$ |
```

Et enfin on va pousser le dernier commit à distance :

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture
/cours github/testGithub/testGit (master)
$ git push -u origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 433 bytes | 433.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/najoua-tech/tes1.git
  e90178a..a57c762  master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture
/cours github/testGithub/testGit (master)
$ |
```

On vérifier sur Github :

The screenshot shows a GitHub repository page for 'najoua-tech/tes1'. At the top, there are navigation links: Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the header, there's a summary: 'master' branch, 1 branch, 0 tags. There are buttons for 'Go to file', 'Add file', and 'Code' (which has a red arrow pointing to it). The main area displays two commits:

- Commit 1: 'najoua-tech add a title h1 in index.html' (2 minutes ago) - This is the first commit shown.
- Commit 2: 'index.html add a title h1 in index.html' (2 minutes ago) - This is the second commit shown.

At the bottom, there's a note: 'Help people interested in this repository understand your project by adding a README.' with a 'Add a README' button.

Par Najoua Ghrieb

Cela a fonctionné :

The screenshot shows a GitHub repository interface. At the top, there's a header with the repository name 's1' and navigation links for Pull requests, Actions, Projects, Wiki, Security, and a code icon. Below this, a dropdown menu shows 'master'. A red arrow points to the first commit in the list, which is green and says 'add a title h1 in index.html' by 'najoua-tech' committed 3 minutes ago. Another commit below it is grey and says 'add index.html fichier vide' by 'najoua-tech' committed 37 minutes ago.

s1

Pull requests Actions Projects Wiki Security

master

Commits on Oct 13, 2020

→ add a title h1 in index.html  
najoua-tech committed 3 minutes ago

add index.html fichier vide  
najoua-tech committed 37 minutes ago

Ce qu'on a rajouté est en vert :

Par Najoua Ghrieb

The screenshot shows a GitHub commit history for a repository named 'najoua-tech'. The commit message is 'add a title h1 in index.html'. It was made by 'najoua-tech' 3 minutes ago. The commit details show a single file change: 'index.html'. The diff shows the addition of an H1 title: 'Ceci est un test pour GitHub'. Below the commit, there are 0 comments on the commit 'a57c762'. A comment input field is visible, with the placeholder 'Leave a comment'.

Admettons que je décide de collaborer avec une personne.

Je vais dans Settings et dans Manage access :

The screenshot shows two views of a GitHub repository settings page. The top view shows the main repository settings for 'najoua-tech / tes1'. The bottom view shows the 'Manage access' section of the same settings page. A red arrow points from the 'Manage access' link in the sidebar to the 'Manage access' section in the main content area. The 'Manage access' section lists options like 'Manage access', 'Security & analysis', 'Branches', 'Webhooks', 'Notifications', 'Integrations', and 'Deploy keys'.

## Par Najoua Ghrieb

Screenshot of GitHub repository settings showing access management.

The left sidebar shows the following options:

- Options
- Manage access** (selected)
- Security & analysis
- Branches
- Webhooks
- Notifications
- Integrations
- Deploy keys
- Secrets
- Actions

**Moderation settings**

**Interaction limits**

**Who has access**

**PUBLIC REPOSITORY** This repository is public and visible to anyone.

**DIRECT ACCESS** 0 collaborators have access to this repository. Only you can contribute to this repository.

**Manage**

**Manage access**

You haven't invited any collaborators yet

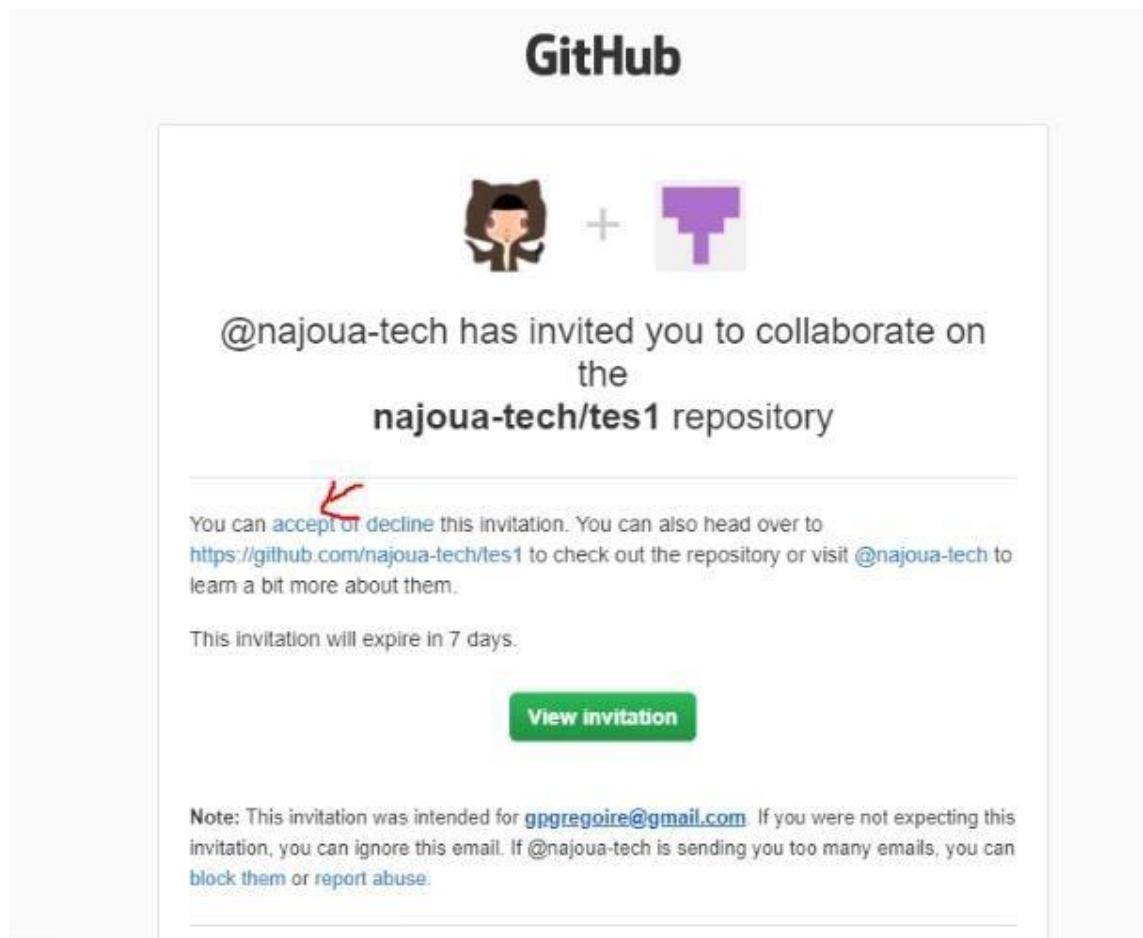
**Invite a collaborator** (button with a red arrow pointing to it)

**Invite a collaborator to tes1**

UserTest-lab

Add UserTest-lab to this repository (button with a red arrow pointing to it)

L'autre personne accepte l'invitation sur son email :



Par Najoua Ghrieb

The screenshot shows a sequence of three GitHub interface views:

- Top View:** A landing page with a banner: "Learn Git and GitHub without any code!" and "Using the Hello World guide, you'll start a branch, write comments, and open a pull request." It features a green "Read the guide" button. Navigation links at the top include Pull requests, Issues, Marketplace, and Explore.
- Middle View:** A user profile or collaboration invitation screen. It shows two user icons: one for "najoua-tech" (a person with short hair) and another for "GitHub" (a purple octocat). The text "najoua-tech invited you to collaborate" is displayed. Below it are "Accept invitation" and "Decline" buttons. A red arrow points to the "Accept invitation" button. Navigation links at the top include Watch (with 1 notification), Star, Pull requests, Actions, Projects, Wiki, Security, and Insights.
- Bottom View:** A repository page for "najoua-tech / test". The repository summary includes: Code (selected), Issues, Pull requests (1), Actions, Projects, Wiki, Security, and Insights. It shows a single commit by "najoua-tech": "add a title h1 in index.html" (commit hash: a57c762, 14 hours ago, 2 commits). The commit details show "index.html" was modified with the message "add a title h1 in index.html". A sidebar on the right provides options for About, Test, Release, and Packages.

## Par Najoua Ghrieb

The screenshot shows a GitHub repository page for 'najoua-tech / tes1'. At the top, there's a green button labeled 'Read the guide'. Below the header, the repository details are shown: 'Code' tab selected, 1 branch, 0 tags. A commit from 'najoua-tech' is listed: 'add a title h1 in index.html' (commit a57c762, 14 hours ago). The commit message is 'add a title h1 in index.html'. A red arrow points to the file name 'index.html'. The commit also includes a link to 'https://github.com/najoua-tech/tes1/blob/master/index.html'. To the right of the commit, there's an 'About' section with the text 'Test pour le cours d'architecture matériel' and a 'Releases' section indicating 'No releases published'.

Below the commit, the file content for 'index.html' is displayed. The code is:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
</head>
<body>
<h1>Ceci est un test pour GitHub</h1>
</body>
</html>
```

At the bottom of the file content, there are links for 'Raw', 'Blame', and 'Edit this file' (which is highlighted with a red arrow).

At the very bottom of the page, there's a footer with links: © 2020 GitHub, Inc., Terms, Privacy, Security, Status, Help, Contact GitHub, Pricing, API, Training, Blog, About.

## Par Najoua Ghrieb

The screenshot shows a GitHub repository named "najoua-tech / tes1". The "Code" tab is selected, displaying the file "index.html". The code contains the following HTML:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <h1>Ceci est un test pour GitHub</h1>
10  <h2>Ceci est un sous-titre</h2>  
11 </body>
12 </html>
```

A red arrow points to the closing tag of the second heading. Below the editor, the file content is shown again:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <h1>Ceci est un test pour GitHub</h1>
10  <h2>Ceci est un sous-titre</h2>
11 </body>
12 </html>
```

At the bottom, a "Commit changes" dialog is open. It includes a message: "un sous-titre a été ajouté pour la clarté du document." A red arrow points to the "Commit directly to the master branch" radio button, which is selected. Another red arrow points to the "Commit changes" button.

Par Najoua Ghrieb

The screenshot shows a GitHub repository page for 'najoua-tech / tes1'. The 'Code' tab is selected, indicated by a red arrow. The commit history is displayed under the 'master' branch. A second red arrow points to the 'Code' button in the top right corner of the commit card for the 'Update index.html' commit.

Commits:

- Update index.html (Imcgppr, 13 seconds ago)
  - index.html (13 seconds ago)
- Help people interested in this repository understand your project by adding a README.  
Add a README

Below the commits, there is a section for issues, pull requests, actions, projects, wiki, security, and insights. At the bottom, there are buttons for 'Watch', 'Star', and 'Fork'.

Commit details:

- Oct 14, 2020:
  - Update index.html (Imcgppr committed 37 seconds ago)
- Oct 13, 2020:
  - add a title h1 in index.html (najoua-tech committed 14 hours ago)
  - add index.html fichier vide (najoua-tech committed 15 hours ago)

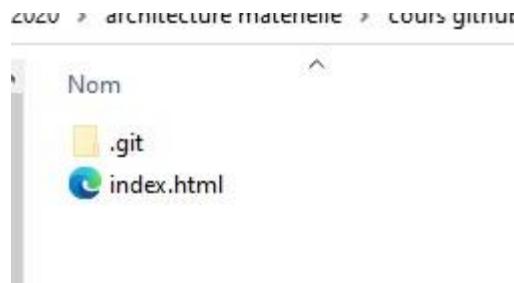
Newer Older

## Exercice 2 :

Inviter une personne de votre choix dans le groupe à collaborer au projet. Et l'autre personne du groupe devra faire un changement.

Remettez-vous dans votre machine locale et aller chercher ce qu'a fait l'autre personne en faisant la commande : **git pull origin master**.

Pour cela on se met dans le dossier de travail :



Et on ouvre bash : avec un click droit sur bash

A screenshot of a terminal window titled 'MINGW64/c/Users/PC/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit'. The prompt is '\$'. The text in the window reads: 'PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)' followed by a blank line.

On fait un git status

A screenshot of a terminal window titled 'MINGW64/c/Users/PC/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit'. The prompt is '\$'. The text in the window reads: 'PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit (master)' followed by '\$ git status'. The output of the command is: 'On branch master', 'Your branch is up to date with 'origin/master''. Then it says 'nothing to commit, working tree clean'. Finally, the prompt '\$' appears again.

On vérifie qu'on est bien connecté vers remote : **git remote -v**

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mat
/cours github/testGithub/testGit (master)
$ git remote -v
origin https://github.com/najoua-tech/tes1.git (fetch)
origin https://github.com/najoua-tech/tes1.git (push)

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mat
/cours github/testGithub/testGit (master)
$ |
```

Et on procède à la commande qui permet d'aller chercher les modifications :

: **git pull origin master**

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mat
/cours github/testGithub/testGit (master)
$ git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 742 bytes | 3.00 KiB/s, done.
From https://github.com/najoua-tech/tes1
 * branch            master      -> FETCH_HEAD
   a57c762..60cb199  master      -> origin/master
Updating a57c762..60cb199
Fast-forward
 index.html | 3 +-+
 1 file changed, 2 insertions(+), 1 deletion(-)

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mat
/cours github/testGithub/testGit (master)
$ |
```

**Vous avez bien récupéré les changements :**

```
MINGW64:/c/Users/PC/Documents/cours Automne2020/architecture materielle/cours github/testGithub/testGit
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mate
/cours github/testGithub/testGit (master)
$ ls
index.html

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mate
/cours github/testGithub/testGit (master)
$ cat index.html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Ceci est un test pour GitHub</h1>
    <h2>Ceci est un sous-titre</h2> ←
</body>
</html>

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture mate
/cours github/testGithub/testGit (master)
$ |
```

### Exercice 3

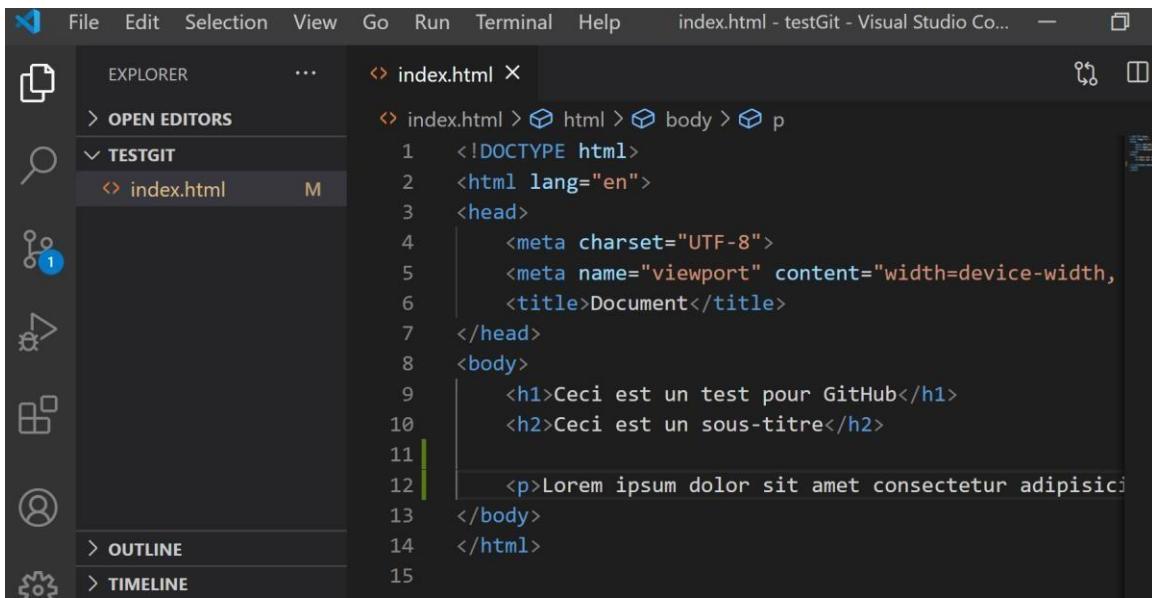
Créer une nouvelle branche localement via la commande : **git checkout -b relaxing**

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/archi
/cours github/testGithub/testGit (master)
$ git checkout -b relaxing
Switched to a new branch 'relaxing'

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/archi
/cours github/testGithub/testGit (relaxing)
$ |
```

Faites une modification sur le fichier index.html en l'ouvrant avec Visual studio code par exemple ou un éditeur de votre choix :

J'ai rajouté un paragraphe et sauvégarde et revenez sur votre bash :



Puis faites un **add et un commit à partir de votre bash :**

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle
/cours github/testGithub/testGit (relaxing)
$ git status
On branch relaxing
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle
/cours github/testGithub/testGit (relaxing)
$ |
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle
/cours github/testGithub/testGit (relaxing)
$ git add .

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle
/cours github/testGithub/testGit (relaxing)
$ git status
On branch relaxing
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   index.html

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle
/cours github/testGithub/testGit (relaxing)
$ git commit -m "add paragraphe"
```

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Auto
/cours github/testGithub/testGit (relaxing)
$ git commit -m "add paragraphe"
[relaxing 5b92cec] add paragraphe
 1 file changed, 2 insertions(+)

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Auto
/cours github/testGithub/testGit (relaxing)
$ git status
On branch relaxing
nothing to commit, working tree clean

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Auto
/cours github/testGithub/testGit (relaxing)
$ |
```

Voici ce que j'ai pour l'instant sur mon github :

Par Najoua Ghrieb

The screenshot shows a GitHub repository page for 'najoua-tech / tes1'. At the top, there are navigation links for Code, Issues, Pull requests, Actions, Projects, Wiki, and Security. A dropdown menu indicates the 'master' branch. The main area shows a commit by 'Imcgpr' titled 'Update index.html ...'. It has 2 contributors. The commit message is 'Ceci est un test pour GitHub'. Below the commit, the code editor displays the following HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <h1>Ceci est un test pour GitHub</h1>
10  <h2>Ceci est un sous-titre</h2>
11 </body>
12 </html>
```

Puis mettre ce changement dans la branche : **relaxing**

**Git push -u origin relaxing**

Par Najoua Ghrieb

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle
/cours github/testGithub/testGit (relaxing)
$ git push -u origin relaxing
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 566 bytes | 566.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'relaxing' on GitHub by visiting:
remote:     https://github.com/najoua-tech/tes1/pull/new/relaxing
remote:
To https://github.com/najoua-tech/tes1.git
 * [new branch]      relaxing -> relaxing
Branch 'relaxing' set up to track remote branch 'relaxing' from 'origin'.

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle
/cours github/testGithub/testGit (relaxing)
$
```

Rafraîchissez la page github, vous devriez voir la nouvelle branche créée.

The screenshot shows a GitHub repository page for 'najoua-tech / tes1'. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The 'Code' tab is selected. Below the navigation, there's a summary bar with 'master' (selected), '2 branches' (highlighted in red), '0 tags', and buttons for 'Go to file', 'Add file', and 'Code'. A yellow banner at the top right says 'Compare & pull request'. The main content area displays a commit history for the 'relaxing' branch. The first commit is by 'Imcgpr' titled 'Update index.html' with a timestamp of '21 minutes ago'. Below it is a commit for 'index.html' with the same timestamp. At the bottom, there's a note to 'Help people interested in this repository understand your project by adding a README.' with a 'Add a README' button.

 [najoua-tech / tes1](#)

<> [Code](#) [Issues](#) [Pull requests](#) [Actions](#)

 **relaxing** had recent pushes 3 minutes ago

 [master](#) ▾  **2** branches  **0** tags

[Switch branches/tags](#) [X](#)

[Branches](#) [Tags](#)

 [master](#) default

 [relaxing](#)

[View all branches](#)

## Par Najoua Ghrieb

najoua-tech / tes1

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Compare & pull request

relaxing had recent pushes 3 minutes ago

relaxing 2 branches 0 tags Go to file Add file Code

This branch is 1 commit ahead of master. Pull request Compare

najoua-tech add paragraphe 5b92cec 7 minutes ago 4 commits

index.html add paragraphe 7 minutes ago

Add a README

relaxing / tes1 / index.html Go to file ...

najoua-tech add paragraphe Latest commit 5b92cec 7 minutes ago History

2 contributors

14 lines (13 sloc) 500 Bytes Raw Blame

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Ceci est un test pour GitHub</h1>
    <h2>Ceci est un sous-titre</h2>
    <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quos omnis ratione, in possimus aliquid facilis deserunt. Blanditiis optio quaerat quia libero dolor? Neque culpa, nisi!</p>
</body>
</html>
```

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Compare & pull request

relaxing had recent pushes 13 minutes ago

master 2 branches 0 tags Go to file Add file Code

Imcgpr Update index.html 60cb199 33 minutes ago 3 commits

index.html Update index.html 33 minutes ago

Add a README

Si maintenant, je veux proposer ce changement à mes collaborateurs, je clique sur « Pull request ».

Par Najoua Ghrieb

najoua-tech / tes1

Code Issues Pull requests Actions Projects Wiki Security

relaxing had recent pushes 13 minutes ago

master ▾ 2 branches 0 tags Go to

Imcgppr Update index.html ...

index.html Update index.html

Help people interested in this repository understand your project by adding a README.

Puis vous cliquerez sur « create pull request » et vous devrez rentrer un commentaire pour expliquer vos changements à vos collaborateurs et cliquer sur « create pull request » encore une fois.

Compare & pull request

Filters is:pr is:open New pull request

Welcome to pull requests!

Pull requests help you collaborate on code with other people. As pull requests are created, they'll appear here in a searchable and filterable list. To get started, you should create a pull request!

ProTip! Updated in the last three days: updated:>2020-10-11.

## Par Najoua Ghrieb

The screenshot shows a GitHub interface for comparing branches. At the top, there are dropdown menus for 'base: master' and 'compare: master'. A yellow banner below the header says, 'Choose different branches or forks above to discuss and review changes. Learn about pull requests'. In the center, there's a circular icon with arrows. Below it, the title 'Compare and review just about anything' is displayed, followed by the subtitle 'Branches, tags, commit ranges, and time ranges. In the same repository and across forks.' A section titled 'Example comparisons' lists two items: '→ relaxing' (19 minutes ago) and '⌚ master@{1day}..master' (24 hours ago). The main content area shows a comparison between 'base: master' and 'compare: relaxing'. It indicates 'Able to merge' and shows '1 commit', '1 file changed', '0 comments', and '1 contributor'. A green checkmark is present next to the merge button. The commit details show a file named 'index.html' with changes from line 8 to 14. The changes are shown in a unified diff format, with additions in green and deletions in red. The commit message is 'add paragraphe' and the SHA is '5b92cec'.

Par Najoua Ghrieb

The screenshot shows a GitHub pull request interface. At the top, it says "base: master" and "compare: relaxing". A green checkmark indicates "Able to merge. These branches can be automatically merged." Below this, there's a text editor with a toolbar for bold, italic, etc. The text area contains the message: "Je viens de rajouter un autre paragraphe juste pour qu'on est un squelette pour commencer notre projet comme il faut." Below the text area, there's a note: "Attach files by dragging & dropping, selecting or pasting them." A red "L" watermark is visible in the bottom right corner. At the bottom right is a green "Create pull request" button.

ⓘ Remember, contributions to this repository should follow our GitHub Community Guidelines.

La personne en face va accepter les changements et vous pourrez cliquer sur Merge pull request pour fusionner les 2 branches.

The screenshot shows the same GitHub pull request interface after the changes have been pushed. It now says "najoua-tech wants to merge 1 commit into master from relaxing". The commit message is the same: "Je viens de rajouter un autre paragraphe juste pour qu'on est un squelette pour commencer notre projet comme il faut." Below the commit, there's a link to "add paragraphe" and a commit hash "5b92cec". On the right, there's a vertical sidebar with letters: R, S, St, St, A, N, L, N, P, N, M, N, Li, S, th. At the bottom, there's a "Merge pull request" button with a dropdown menu, and a note: "You can also open this in GitHub Desktop or view command line instructions." Below the main area is a toolbar with "Write" and "Preview" buttons, and a text input field "Leave a comment".

Par contre, si vous avez accepté des changements sur github, il faut aussi aller chercher ces changements et les mettre en local.

## Par Najoua Ghrieb

The screenshot shows two views of a GitHub repository named 'najoua-tech / tes1'.  
The top view displays a pull request titled 'najoua-tech add paragraphe' with 14 lines (13 sloc) and 500 Bytes. The code content is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <h1>Ceci est un test pour GitHub</h1>
10  <h2>Ceci est un sous-titre</h2>
11
12  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quos omnis ratione, in possimus aliquid facilis deserunt. Blanditiis optio quaerat quia lit
```

The bottom view shows the pull request list. A red arrow points to the 'add paragraphe' pull request, which has 1 open and 0 closed issues. The pull request details are identical to the one above.

## Par Najoua Ghrieb

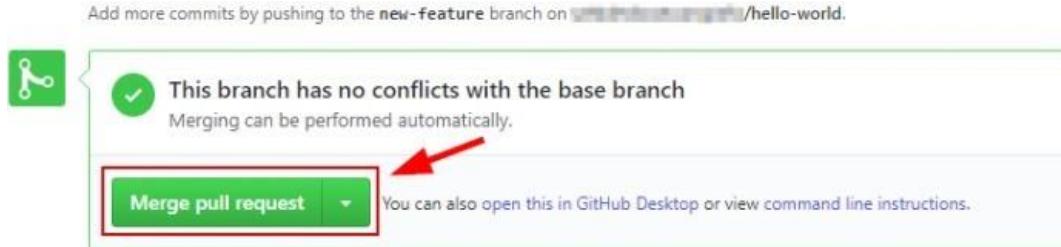
The screenshot shows a GitHub pull request page for a repository named 'najoua-tech/test1'. The pull request is titled 'add paragraphe #1' and has been merged into the 'master' branch from the 'relaxing' branch. The commit message is: 'Je viens de rajouter un autre paragraphe juste pour qu'on est un squelette pour commencer notre projet comme il faut.' The commit hash is '5b92cec'. A note at the bottom says 'Add more commits by pushing to the `relaxing` branch on `najoua-tech/test1`'. A green box indicates that 'This branch has no conflicts with the base branch' and merging can be performed automatically. There is a 'Merge pull request' button and a note that you can also open this in GitHub Desktop or view command line instructions. Below this, there is a comment section with a 'Write' tab, a preview section, and a 'Comment' button. A note at the bottom says 'Remember, contributions to this repository should follow our GitHub Community Guidelines.' and a pro tip: 'Add .patch or .diff to the end of URLs for Git's plaintext views.'

## Par Najoua Ghrieb

The screenshot shows two windows from GitHub Desktop. The top window displays a pull request from the 'relaxing' branch to the 'master' branch of the repository 'najoua-tech/tes1'. A green checkmark indicates that there are no conflicts with the base branch. A button labeled 'Merge pull request' is visible. Below this, a text input field contains the message 'correct pour moi'. The bottom window shows a code review for a commit in 'index.html'. The commit adds content related to a test page and lorem ipsum text. A comment box is open, prompting the user to 'Leave a comment'.

Après avoir travaillé dessus, on peut le mettre dans la branche principale, en faisant un : merge

Par Najoua Ghrieb



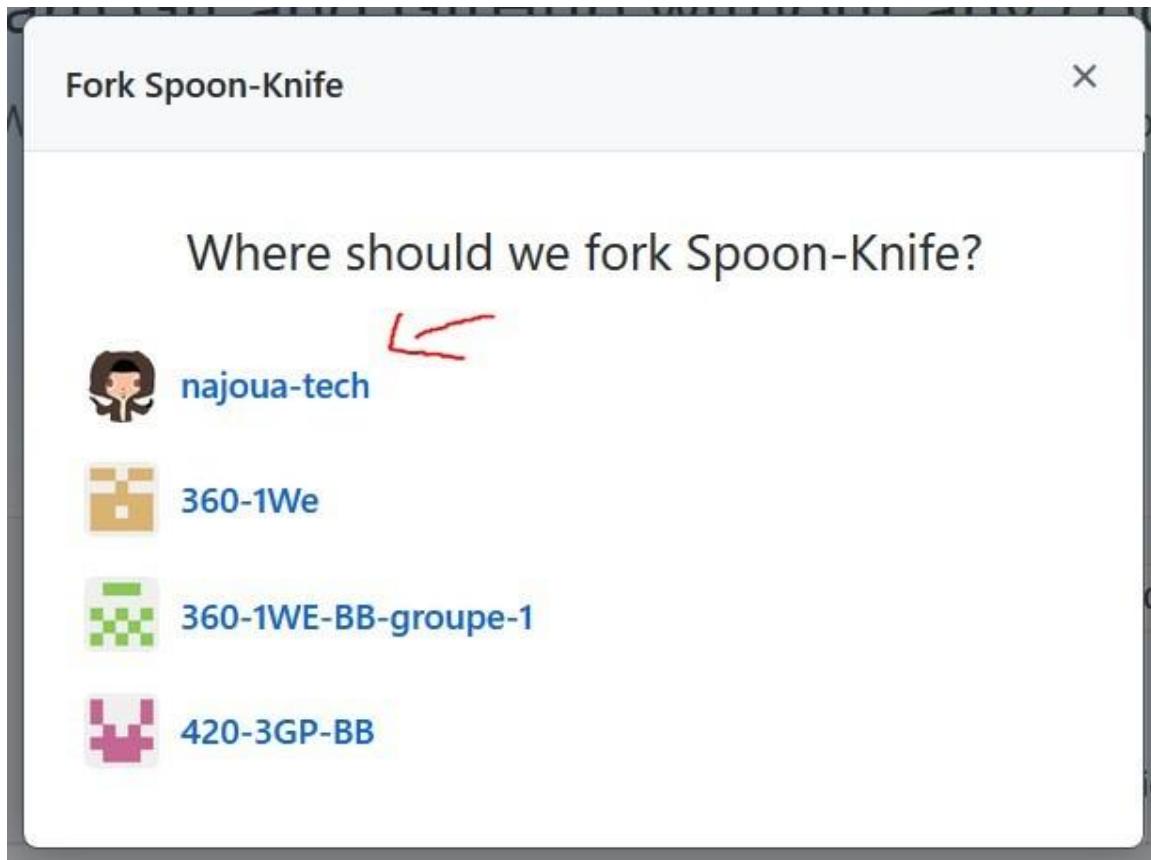
## Exercice 4

Aller sur le site : <https://github.com/najoua-tech/Spoon-Knife>

Et faites un fork pour cloner le projet et travailler dessus directement sur votre compte

A screenshot of a GitHub repository page. At the top, there is a green button labeled "Read the guide". Below the header, the repository name is "najoua-tech / Spoon-Knife" with a note "forked from Colt/Spoon-Knife". To the right are buttons for "Watch" (0), "Star" (0), "Fork" (114k), and "Settings". A red arrow points to the "Fork" button. Below the header, there are navigation links: "Code", "Pull requests", "Actions", "Projects", "Wiki", "Security", "Insights", and "Settings". Under the "Code" link, there is a dropdown menu showing "master", "3 branches", and "0 tags". There is also a "Go to file", "Add file", and "Code" dropdown. On the right side, there is an "About" section with the text "This repo is for demonstration purposes only." and a "Readme" link.

Par Najoua Ghrieb



Il va créer

The screenshot shows the GitHub repository page for "najoua-tech / Spoon-Knife". The URL in the address bar is <https://github.com/najoua-tech/Spoon-Knife>. The repository was forked from "Colt/Spoon-Knife". The page includes standard GitHub navigation links: Code, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The "Code" tab is selected.



This branch is even with Colt:master.

Colt Steele make everything purple

README.md Pointing to the guide for forking  
index.html Update index.html  
styles.css make everything purple

README.md

Clone

HTTPS SSH GitHub CLI

<https://github.com/najoua-tech/Spoon-Knife>

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop  
Open with Visual Studio  
Download ZIP

<https://github.com/najoua-tech/Spoon-Knife.git>

Avec la commande git clone...

Je le mets dans un dossier vide

```
/cours github/testGithub/rep/Spoon-knife (master)
$ cd ..

PC@DESKTOP-RI0EIM4 MINGW64 ~/Documents/cours Automne2020/archi
/cours github/testGithub/rep
$ cd ..

PC@DESKTOP-RI0EIM4 MINGW64 ~/Documents/cours Automne2020/archi
/cours github/testGithub
$ ls
rep/ testGit/

PC@DESKTOP-RI0EIM4 MINGW64 ~/Documents/cours Automne2020/archi
/cours github/testGithub
$ mkdir Fork

PC@DESKTOP-RI0EIM4 MINGW64 ~/Documents/cours Automne2020/archi
/cours github/testGithub
$ ls
Fork/ rep/ testGit/

PC@DESKTOP-RI0EIM4 MINGW64 ~/Documents/cours Automne2020/archi
/cours github/testGithub
$ |
```

Par Najoua Ghrieb

Je crée un clone dans mon repo en local :

```
MINGW64:/c/Users/PC/Documents/cours Automne2020/architecture materielle/cours github/testGithub/Fork
/cours github/testGithub
$ ls
Fork/ rep/ testGit/

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub
$ cd Fork

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/Fork
$ ls

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/Fork
$ git clone https://github.com/najoua-tech/Spoon-Knife.git
Cloning into 'Spoon-Knife'...
remote: Enumerating objects: 22, done.
remote: Total 22 (delta 0), reused 0 (delta 0), pack-reused 22
Receiving objects: 100% (22/22), 3.36 KiB | 574.00 KiB/s, done.
Resolving deltas: 100% (4/4), done.

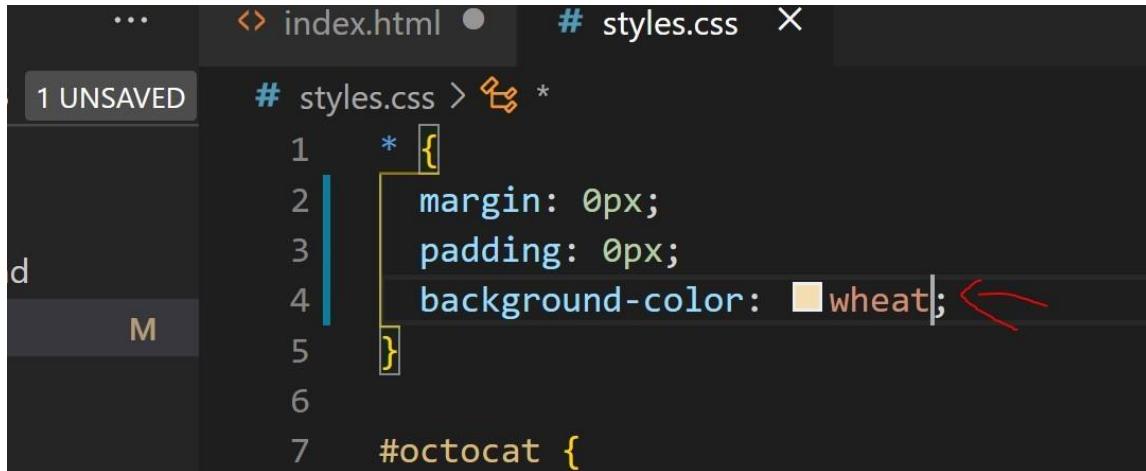
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/Fork
$ |
```

```
PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/Fork
$ ls
Spoon-Knife/

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/Fork
$ cd Spoon-Knife/
$ ls
index.html README.md styles.css

PC@DESKTOP-RIOEIM4 MINGW64 ~/Documents/cours Automne2020/architecture materielle/cours github/testGithub/Fork/Spoon-Knife (master)
$ |
```

Faites un changement sur un des fichiers



```
... <> index.html ● # styles.css X  
1 UNSAVED # styles.css > 🛡 *  
1   * {  
2     margin: 0px;  
3     padding: 0px;  
4     background-color: wheat; ←  
5   }  
6  
7   #octocat {
```

Faites vos commits et faites un : **git push -u origin master** pour l'envoyer sur github