



Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

[Read the guide](#)

 [IBM](#) / [skillsnetwork](#)

[Code](#)

[Issues](#) 5

[Pull requests](#) 57


[Actions](#)

[Projects](#)

[Wiki](#)

[Security](#)

[Insights](#)

 master ▾



[skillsnetwork](#) / [tools](#) / [GITHUB - Part 1.pdf](#)



romeokienzler Add files via upload



 1 contributor

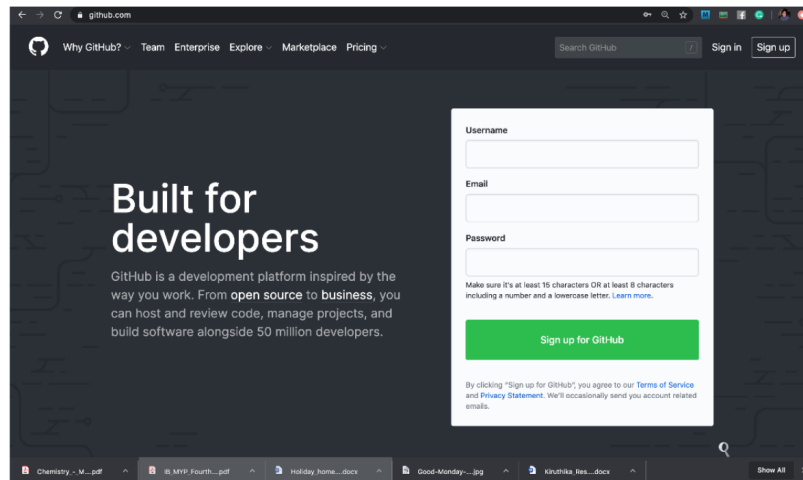
[Download](#)



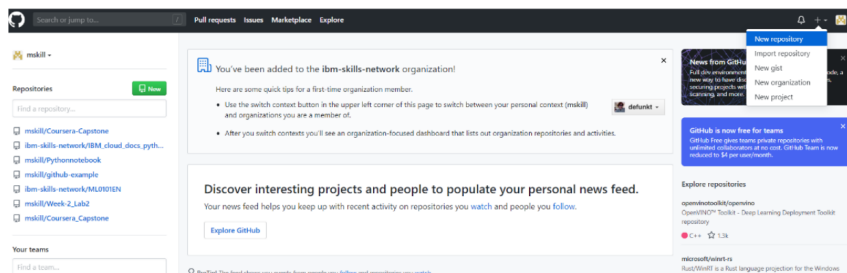
1.02 MB

GITHUB – PART-1

- 1) Create a GitHub account using <https://github.com/>. Use your personal email address and official emails come with restrictions.



- 2) Create a new repository (it's a container where all stuff goes) using the + sign as shown below:



- 3) Provide the necessary details like repository name. Select repository as Public and initialize the README. Click 'Create'

Create a new repository

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

Owner

Repository name *

mskill / demo

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

Description (optional)

☒ Public

Anyone can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

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

☒ Initialize this repository with a README

This will let you immediately clone the repository to your computer.

Add .gitignore: None

Add a license: None

Create repository

4) Now, your repository is created, and it looks as:

mskill / demo

Unwatch 1 Star 0 Fork 0

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

No description, website, or topics provided.

Manage topics

1 commit

1 branch

0 packages

0 releases

1 contributor

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

mskill Initial commit

Latest commit d3b011e now

[README.md](#)

Initial commit

now

README.md

demo

5) To download the repository, we have option 'Clone and download'. Also, there are two options to copy repository locally using 'SSH' and 'HTTPS'

0 releases

1 contributor

Create new file

Upload files

Find file

Clone or download

Clone with HTTPS

Use SSH

Use Git or checkout with SVN using the web URL.

https://github.com/lauvshree/DataScience

User Id

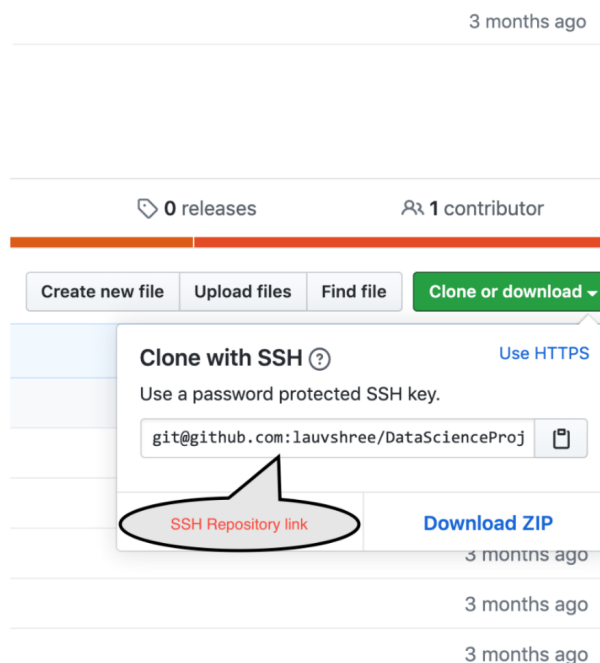
Repository name

Open in Desktop

Download ZIP

https://github.com/IBM/skillsnetwork/blob/master/tools/GITHUB - Part 1.pdf

3/15



- 6) Copy the SSHRepositoryLink on to your clipboard.
- 7) These instructions presume that you have SSH key generated. However, if you don't have one please follow the step-by-step procedure in this [link](https://help.github.com/en/enterprise/2.15/user/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent) (<https://help.github.com/en/enterprise/2.15/user/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent>) before you proceed further.
- 8) Open the command prompt or terminal to use the GitHub commands:
To change the directory simply use:
`cd <name of the directory you want to change to>`

To go to the folder “Downloads” use: `cd Downloads`

Create a empty folder in Downloads using SSH repository link that we have created in GitHub Repository as:

`git clone pastesshrepositorylinkhere`

Command Prompt

```
Microsoft Windows [Version 10.0.17763.1217]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Skill07>cd
C:\Users\Skill07

C:\Users\Skill07>cd Downloads

C:\Users\Skill07\Downloads>git clone git@github.com:mskill/demo.git
Cloning into 'demo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

C:\Users\Skill07\Downloads>
```

Now, the folder is copied to my 'Downloads'. Just check the 'Downloads' have you got the folder demo?

- 9) To check my folder, enter the folder using cd command again as:

```
cd demo
```

- 10) Get the list of the files in the folder demo, use:

For Windows: `dir`

For Mac: `ls`

```
C:\Users\Skill07\Downloads\demo>dir
Volume in drive C has no label.
Volume Serial Number is A20C-B44D

Directory of C:\Users\Skill07\Downloads\demo

05/30/2020  09:13 PM    <DIR>          .
05/30/2020  09:13 PM    <DIR>          ..
05/30/2020  09:13 PM                6 README.md
               1 File(s)                6 bytes
               2 Dir(s) 96,149,942,272 bytes free
```

- 11) To view the content of the file:

For Windows: `type README.md`

For Mac: `cat README.md`

```
C:\Users\Skill07\Downloads\demo>type README.md
# demo
```

- 12) To open a README.md file:

For Windows: `notepad README.md`

For Mac: `open README.md`

- 13) To create a new file:

For Windows: `notepad test.txt`

For Mac: `vi test.txt`

14) Add to the repository:

For Windows/Mac: `git add test.txt`

Check the status of the file using:

`git status`

```
C:\Users\Skill07\Downloads\demo>notepad test.txt
C:\Users\Skill07\Downloads\demo>git add test.txt
C:\Users\Skill07\Downloads\demo>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)
    new file:   test.txt
```

Similarly, add the new file as shown below:

```
C:\Users\Skill07\Downloads\demo>notepad test2.txt
C:\Users\Skill07\Downloads\demo>git add test2.txt
C:\Users\Skill07\Downloads\demo>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)
    new file:   test.txt
    new file:   test2.txt
```

Commit the changes in the repository using:

`git commit -m "write message here"`

```
C:\Users\Skill07\Downloads\demo>git commit -m "Initial Commit"
[master dc2e94d] Initial Commit
2 files changed, 2 insertions(+)
create mode 100644 test.txt
create mode 100644 test2.txt
```

Push the file to remote repository using:

`git push`

```
C:\Users\Skill07\Downloads\demo>git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 366 bytes | 122.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:mskill/demo.git
d3b011e..dc2e94d master -> master
```

Now, this make the changes in my GitHub repository

The screenshot shows the GitHub interface for a repository named 'demo' under the user 'mskill'. At the top, there are buttons for 'Unwatch', 'Star' (0), and 'Fork' (0). Below this is a navigation bar with links to 'Code', 'Issues' (0), 'Pull requests' (0), 'Actions', 'Projects' (0), 'Wiki', 'Security' (0), 'Insights', and 'Settings'. A message states 'No description, website, or topics provided.' with an 'Edit' button. Below this, statistics show '2 commits', '1 branch', '0 packages', '0 releases', and '1 contributor'. A section for the 'master' branch includes buttons for 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. The commit history table shows three initial commits: 'README.md' (40 minutes ago), 'test.txt' (4 minutes ago), and 'test2.txt' (4 minutes ago).

Create a repository now without README.md file

Create a new repository

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

Owner: / Repository name:

Great repository name **demo1** is available. More ideas? morable. Need inspiration? How about improved-couscous?

Description (optional):

☒ **Public**
Anyone can see this repository. You choose who can commit.

☐ **Private**
You choose who can see and commit to this repository.

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

☐ **Initialize this repository with a README**
This will let you immediately clone the repository to your computer.

Add a .gitignore: **None** Add a license: **None** ⓘ

Create repository

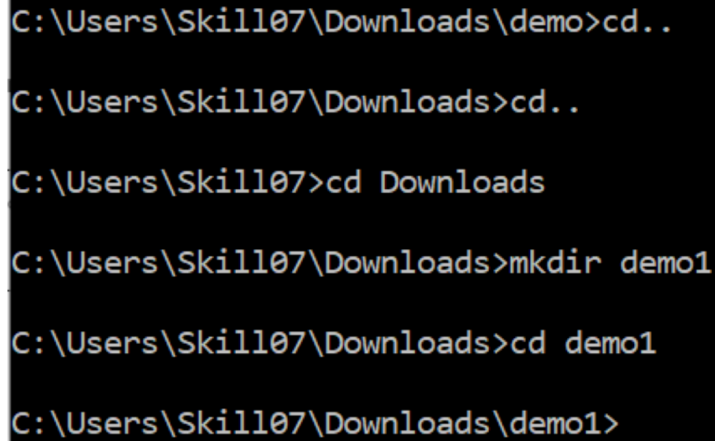
Copy the SSHRepositoryLink on to your clipboard just as in Step 6.

To come out from the demo folder first use

```
cd ..
```

To make a directory in download folder:

```
mkdir demo1  
cd demo1
```



```
C:\Users\Skill07\Downloads\demo>cd..  
C:\Users\Skill07\Downloads>cd..  
C:\Users\Skill07>cd Downloads  
C:\Users\Skill07\Downloads>mkdir demo1  
C:\Users\Skill07\Downloads>cd demo1  
C:\Users\Skill07\Downloads\demo1>
```

To create a readmd file use

```
echo "# demo1" >> README.md
```

Initialize the directory

```
git init
```

Create and add a README.md file. You can use a normal text editor depending on which OS you are using.

```
git add README.md
```

Check the status of the file

```
git status
```

Commit the changes

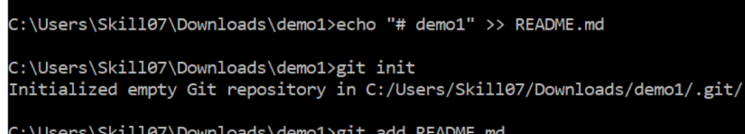
```
git commit -m "first commit"
```

Add the origin where we have to push the file. This is the SSHRepositoryLink you copied when you created the repository.

```
git remote add origin git@github.com:mskill/demo1.git
```

Push the file

```
git push -u origin master
```



```
C:\Users\Skill07\Downloads\demo1>echo "# demo1" >> README.md  
C:\Users\Skill07\Downloads\demo1>git init  
Initialized empty Git repository in C:/Users/Skill07/Downloads/demo1/.git/  
C:\Users\Skill07\Downloads\demo1>git add README.md
```



```
C:\Users\Skill07\Downloads\demo1>git add README.md

C:\Users\Skill07\Downloads\demo1>git status
On branch master

No commits yet

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

C:\Users\Skill07\Downloads\demo1>git commit -m "first commit"
[master (root-commit) a74d8ad] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

C:\Users\Skill07\Downloads\demo1>git remote add origin git@github.com:mskill/demo1.git

C:\Users\Skill07\Downloads\demo1>git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 218 bytes | 72.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:mskill/demo1.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

Now, the README.md file is created in our repository

The screenshot shows the GitHub interface for a repository named 'demo1' by user 'mskill'. At the top, there are buttons for 'Unwatch' (1), 'Star' (0), and 'Fork' (0). Below this is a navigation bar with tabs for 'Code', 'Issues' (0), 'Pull requests' (0), 'Actions', 'Projects' (0), 'Wiki', 'Security' (0), 'Insights', and 'Settings'. A message states 'No description, website, or topics provided.' with an 'Edit' button. Below this, statistics show '1 commit', '1 branch', '0 packages', '0 releases', and '1 contributor'. A 'Branch: master' dropdown and a 'New pull request' button are visible. Action buttons include 'Create new file', 'Upload files', 'Find file', and a green 'Clone or download' button. The commit history shows a single commit 'mskill first commit' (a74d8ad) from 4 minutes ago, which includes the file 'README.md'. At the bottom, a file viewer for 'README.md' is partially visible.

