**Example: Contribute to an existing repository**

# download a repository on GitHub.com to our machine

git clone https://github.com/me/repo.git

# change into the `repo` directory

cd repo

# create a new branch to store any new changes

git branch my-branch

# switch to that branch (line of development)

git checkout my-branch

# make changes, for example, edit `file1.md` and `file2.md` using the text editor

# stage the changed files

git add file1.md file2.md

# take a snapshot of the staging area (anything that's been added)

git commit -m "my snapshot"

# push changes to github

git push --set-upstream origin my-branch

**Example: Start a new repository and publish it to GitHub**

First, you will need to create a new repository on GitHub. You can learn how to create a new repository in our [Hello World guide](https://guides.github.com/activities/hello-world/#repository). **Do not** initialize the repository with a README, .gitignore or License. This empty repository will await your code.

# create a new directory, and initialize it with git-specific functions

git init my-repo

# change into the `my-repo` directory

cd my-repo

# create the first file in the project

touch README.md

# git isn't aware of the file, stage it

git add README.md

# take a snapshot of the staging area

git commit -m "add README to initial commit"

# provide the path for the repository you created on github

git remote add origin https://github.com/YOUR-USERNAME/YOUR-REPOSITORY.git

# push changes to github

git push --set-upstream origin master

**Example: contribute to an existing branch on GitHub**

# assumption: a project called `repo` already exists on the machine, and a new branch has been pushed to GitHub.com since the last time changes were made locally

# change into the `repo` directory

cd repo

# update all remote tracking branches, and the currently checked out branch

git pull

# change into the existing branch called `feature-a`

git checkout feature-a

# make changes, for example, edit `file1.md` using the text editor

# stage the changed file

git add file1.md

# take a snapshot of the staging area

git commit -m "edit file1"

# push changes to github

git push

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/VS-INTRO

$ cd ..

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop

$ mkdir "my-repo"

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop

$ cd "my-repo"

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo

$ git init

Initialized empty Git repository in C:/Users/asmar/Desktop/my-repo/.git/

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ touch README.md

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git add README.md

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git commit -m "add README to initial commit"

[master (root-commit) 9f6be35] add README to initial commit

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 README.md

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git remote add origin https://github.com/ozra2020/Git-Handbook.git

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git push -u origin master

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 231 bytes | 231.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/ozra2020/Git-Handbook.git

\* [new branch] master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git pull

Already up to date.

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ mv README.md file1.md

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git add file1.md

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git commit -m "edit file1"

[master baf21c3] edit file1

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 file1.md

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$ git push

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Delta compression using up to 8 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (2/2), 250 bytes | 250.00 KiB/s, done.

Total 2 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/ozra2020/Git-Handbook.git

9f6be35..baf21c3 master -> master

asmar@DESKTOP-U3OUIBA MINGW64 ~/Desktop/my-repo (master)

$