



# Git / GitHub Workshop

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Clarusway



## Subject: Git Operations

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### Learning Goals

- Practice using the Git commands.

### Introduction

We've covered a lot of Git concepts, but now it's time to put the concepts in to practice. We'll start with Git commands.

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## Code Along

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### Part 1 - Create a local repository

1. Open the terminal (Git Bash for Windows user)
  - Go to Desktop and create a directory named "my-github" if you do not have already. And, go to "my-github" directory.

- Create another folder named "git-workshop" and go to "git-workshop" directory.

## 2. Git configuration

- Configure git with our name and email. This is to identify who has done what on git and github.

- Check the setting

## 3. Create a local repository

- We can do that by running the "init" command.

- Check the if ".git" folder is created.

# Part 2 - Create a remote repository

## 4. Create a remote repository on GitHub

- Go to your GitHub account and create a repository named "git-workshop".
  - Write a description for your repo
  - select Public
  - add a [README.MD](#) file

## 5. Go to terminal

- Check the connected remote repositories. The 'git remote -v' lists all currently configured remote repositories, which at this point is none.

- connect to remote repository

- Verify the new connection

6. Create a file named "file1.txt"

- check the status of the project folder

- store the change in the local repo

7. upload the changes to the remote repo

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

- check the files on the github repo. (select master branch in GitHub)

## Part 3 - Working with branches

8. Create a new remote repo named "git-workshop-2" in GitHub.

9. Clone the remote repo

- go the terminal
- clone the "git-workshop-2"

- check the files in the "git-workshop-2" and see the [README.MD](#) and .git file.

10. Create a file named **test.txt**

11. Create a new branch named new-feature-1.

- See branches

- Switch to new-feature-1

- List the files and check the status of the working directory

- Make some changes in the test.txt file, and check the status

- Store the changes to the repo and check the status

- Add another line to test.txt and store it to the local repo.

- Switch the main branch and see the content of the test.txt

- Merge new-feature-1 branch to main branch.

12. Create a new branch named new-feature-2 and switch to it.

- Create a new file named test2.txt, add a line in it and store the changes to repo.

```
vim test2.txt
```

- Switch the main branch again.

- Create a new file test3.txt and send the changes to local repo.

- Open the file named test2.txt, add a line in it and store the changes to repo.

- merge main branch with new-feature-1

### 13. RESOLVE THE CONFLICT

- edit the file.
- then commit it.

### 14. Send the changes to the remote repository

### 15. Go and check the remote repository, you will see the new files

### 16. Go to the terminal and delete the branches named front-end and back-end

- List the all branches

😊 **Thanks for Attending** 📝

