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Creating a Repository in GitHub

 Sign Up with GitHub https://github.com/

Read the guide

https://guides.github.com/activities/hello-world/ https://git-scm.com/book/en/v2/Getting-Started-About-Version-Control

- Download and Install the Desktop GitHub https://desktop.github.com/
- Create a Repository MyFirstProject on GitHub.com using + options
 Avoid spaces while creating the Repository
 Check the Initialize the repository with a README
 Choose Git Ignore –None/Windows
- 4. Create/upload a text file to the GitHub using UI, Commit directly to the master branch
- Modify the above text file by adding a few lines of text and commit the changes to the master branch Check the changes are saved or not

Cloning an existing Repository from GitHub Desktop

1. Copy the URL from GitHub UI by clicking the clone or download button

Clone or download ▼

- 2. Clone the below repository into your Repository Using Import your Project to GitHub from + options
 - https://github.com/jalatechnologies/HelloWorld.git
- 3. Clone the same repository into your GitHub Desktop downloaded
- 4. Create a Branch Branch-1 on GitHub Desktop and do some modification to the text file



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Check the changes are reflected on the GitHub origin/master repository

- Commit the changes to the Branch-1 on GitHub Desktop
 Check the changes are reflected on the GitHub origin/master repository
 Notice that there are NO local changes to be committed in GitHub Desktop
- Push the changes done in local branch to the origin/master using Push option from Repositories menu
 Check the changes are saved to the origin/master, changes are not saved
- 7. Notice that the branch Branch-1 in GitHub and a button to compare and Pull Request

 [1] Compare & pull request
- 8. Create a Pull request by clicking the compare and Pull request Check the changes are not saved to origin/master
- 9. Need to merge the changes into origin/master using Merge Pull Request



Check all the changes done in Branch-1 are successfully saved to origin/master

10. The branch Branch-1 is no longer needed, So delete the branch Branch-1 Go to branches and delete the branches that are merged into origin/master

Git- The Command line

- Install Git on windows https://git-scm.com/book/en/v2/Getting-Started-Installing-Git https://git-scm.com/downloads
- 2. Set your Identity

 The first thing you should do when you install Git is to set your user name and email address



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```
$ git config --global user.name "JALA Technologies", need to
include quotes
$ git config -global user.email jalatechnologies.com
```

3. Configure the editor

```
$ git config --global core.editor emacs
```

4. Check your settings

```
$ git config -list
```

5. Check the specific key value

```
$ git config user.name
```

6. Getting help

```
$ git help <verb>
$ man git-<verb>
Ex: $ git help config
```

Initializing a repository Navigate to project repositories folder D:\GitRepos and type

```
$ git init
```

Cloning an existing repository Go to GitHub and click the below button for the Repository URL

Clone or download ▼

\$ git clone https://github.com/jalatechnologies/HelloWorld.git
This command should clone the repository on to your computer



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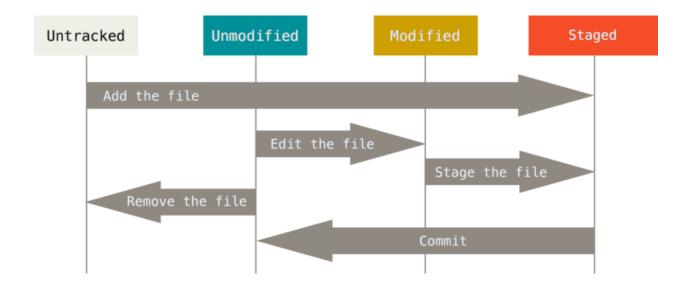
9. Making changes to the cloned repository

Some basics to know

Tracked files: Files that Git knows

Untracked files: Files that Git doesn't know

As you edit files, Git sees them as modified, because you've changed them since your last commit. As you work, you selectively stage these modified files and then commit all those staged changes, and the cycle repeats



10. Checking the status of your files

\$ git status



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11. Tracking new files

If you add any files to the cloned repository, it is untracked by default. Run git status command to check if the file is tracked or untracked

```
$ git add FILE NAME
```

12. Staging modified files

Again git add is used to stage. It is a multipurpose command

```
$ git add FILE NAME
```

13. Committing the changes

```
$ git commit -m "First commit from the command line"
```

14. Viewing the Commit history

\$ git log

15. Showing your remotes

\$ git remote
\$ git remote -v

16. Fetching and Pulling from your remotes

\$ git fetch <remote URL> or

\$ git fetch origin- fetches any new work that has been pushed to that server since
you cloned (or last fetched from) it

17. Pushing to your remotes

\$ git push origin master

18. Creating a new Branch

\$ git branch BRANCHNAME

19. Switching Branches



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\$ git checkout testing

20. Basic merging

- \$ git checkout master
- \$ git merge workingBranch-Do remember to switch to the branch the changes should go into

21. Listing the branches

\$ git branch