IS-1814R

HOW TO WORK WITH GITHUB

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What is Git?

Git is a distributed version control system that enables developers to track changes in files and work together with other developers. It was developed in 2005 by Linus Torvalds, the creator of Linux, so that other developers can contribute to the Linux kernel. Git is known for its speed, simple design, support for non-linear development, complete decentralization, and the ability to efficiently handle large projects.

What is GitHub?

GitHub is an online repository hosting service that has all the distributed version control and source control functionality – everything that Git supports and more. Typically used in conjunction with Git, it gives developers the ability to save their code online and then interact with other developers on different projects.

GitHub also boasts access control, bug tracking, task management, and a wiki for each project. The goal of GitHub is to facilitate developer interaction.

What is the difference?

GIT

is a tool for implementing a distributed version control system.

GITHUB

is a service for projects using Git.

Creating a project with git

```
git init
```

This initializes the git in this folder and makes it possible to use the git in it

```
git status
```

We see a message that we are on the master branch and we have nothing to commit

```
git add document.txt
```

This command adds files to the git and now it will monitor the changes in these files

```
git commit -m "Name of your repository"
```

Fix changes in the memory of the gita

```
git log
```

Lists commits

Creating a repository on github and uploading it

```
git remote add origin https://github.com/monsterlessons/learning_git.git
```

Adds a new remote github server to the list of servers where we can push

```
git remote -v
```

Lists the repository we added

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

In the console, it asks for a username and password. We see a message that the data was written to our turnips on github. Now if we update the repository window in the browser, then we will see our repository on github.

```
git pull
```

Merges new changes into the project if they are from the remote repository

```
git push
```

If you want to push your changes to the server, then you always use it

Thank you for attention