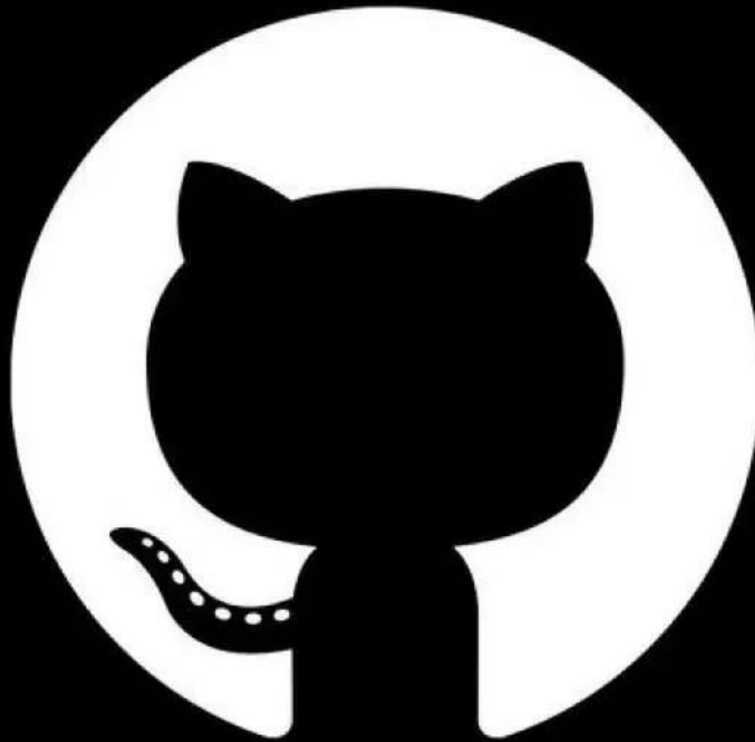






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GITHUB



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What is GitHub?

GitHub is a platform for hosting and collaborating on code repositories. It provides version control using Git, making it easier for developers to work together on projects.

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Basic Commands



```
#### Creating a Repository
```

```
```bash
```

```
Initialize a new Git repository locally
```

```
git init
```

```
Add files to the repository
```

```
git add .
```

```
Commit the changes
```

```
git commit -m "Initial commit"
```

```
Link the local repository to a remote repository on GitHub
```

```
git remote add origin <repository_URL>
```

```
Push the changes to GitHub
```

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

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## Cloning a Repository



```
Clone a repository from GitHub to your local machine
git clone <repository_URL>
```

# Branching and Merging

## Creating a Branch



```
Create a new branch
git branch <branch_name>

Switch to the new branch
git checkout <branch_name>
```

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## Merging Branches



```
Switch to the branch you want to merge into
git checkout <target_branch>

Merge changes from another branch into the current branch
git merge <source_branch>
```

## Collaborating



### Forking a Repository

```
Fork a repository to create your own copy on GitHub
```

### Pull Requests

```
Create a pull request to suggest changes to the original repository
```

### Reviewing Pull Requests

```
Review and provide feedback on pull requests submitted by others
```

# Miscellaneous



## Checking Status

```
Check the status of files in the repository
git status
```

## Viewing Commit History

```
View commit history
git log
```

## Undoing Changes

```
Undo changes in the working directory to the last commit
git checkout -- <file_name>
```

```
Undo the last commit
git reset HEAD~1
```