R A P O R   G I T

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1 Contents

2 Git

2.0.1 What is Git?

The word "git" refers to the version control system and is a tool that allows developers to keep track of constant revisions in their code.

2.0.2 What is Github?

The "Hub" is a community of like-minded people, whose collective efforts revise, improve and derive ideas on the code loaded.

2.0.3 What are the advantages of using Github?

- Makes it easier for you to get support for your open source projects

- Access to information is easier

- You can showcase your work

- Offers markdown

- GitHub is a powerful storage space

- You can track changes between versions

2.0.4 What is Branch?

The use of branches in Git is not optional, even if you are not aware of it, you will always work on a single active branch while working on your project.

When you first create your project in Git, Git creates a branch for you called **master** by default and you start working on that branch.

3 Commands

3.0.1 git branch

When you run the **git branch** command, git lists all the branches you have created for your project and displays the active branch with a * symbol at the beginning.

Listing 1: git branch

```
gizem@DESKTOP-AQL6CP6 MINGW64 ~ (master)
$git branch

git-init
*master
```

3.0.2 git status

When you run the git status command, the active branch is shown with the statement "On branch ...."

Listing 2: git status

```
gizem@DESKTOP-AQL6CP6 MINGW64 ~ (master)
$git status
```

3.0.3   git checkout

The git checkout command is used to activate a different branch. In this case, Git automatically does two things for you.

4   What is Pull Request ?

In their simplest form, pull requests are a mechanism for a developer to notify team members that they have completed a feature.

5   How to create a pull request in GitHub

1. Find a project you want to contribute to

2. Fork it

3. Clone it to your local system

4. Make a new branch

5. Make your changes

6. Push it back to your repo

7. Click the Compare pull request button

8. Click Create pull request to open a new pull request

6   What is Rebase?

Rebase is another way to integrate changes from one branch to another. Rebase compresses all the changes into a single "patch." Then it integrates the patch onto the target branch

- Rebases are how changes should pass from the top of the hierarchy downwards, and merges are how they flow back upwards
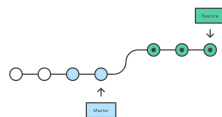

Figure 1: Rebase feature branch into master

3

Figure 2: Merge Master -¿ Feature branch

7   What is Merge?

Merging takes the contents of a source branch and integrates them with a target branch. In this process, only the target branch is changed. The source branch history remains the same.

8   Commands

8.0.1   git rebase

Listing 3: git rebase

```
$ git checkout experiment
$ git rebase master
```

8.0.2   git merge

Listing 4: git merge

```
$ git merge master experiment
```

9   Rebase in Git Desktop

- Use the **Branch** drop-down and click **Rebase Current Branch.**

Figure 3: 1st Step

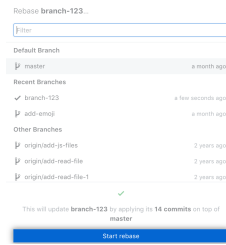- Click the branch you want to rebase into the current branch, then click **Start rebase.**

Figure 4: 2nd step

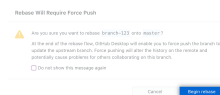- If you're sure you want to rebase, click **Begin rebase.**

Figure 5: 3rd step

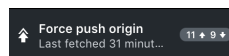- To push up your local changes, click **Force push origin.**

Figure 6: 4th step

10   References

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