[CS200]-STT II Fall 2020-21

Assignment: II

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Question 3,

a) Firstly, we will show the condition where merge is better than rebase mechanism. The following script shows the follows, by the following commands:

- -> mkdir a2q3b
- -> cd a2q3b
- -> echo "making of file1 "; file1
- -> echo "making of file2" ¿ file2
- -> git init
- -> git add file1
- -> git add file2
- -> git commit -m " commit1 "
- -> git branch branch1
- ->echo "add this to file1 "¿¿ file1
- -> git add file1
- -> git commit -m " commit2 "
- -> git checkout branch1
- -> echo "add this to file2 " ¿¿ file2
- -> git add file2
- -> git commit -m " commit3 "
- -> git checkout master

After the rebasing showing the results

-> git graph

Doing the merge instead of the rebase

-> git merge branch1

Showing the results in the graph

-> git graph

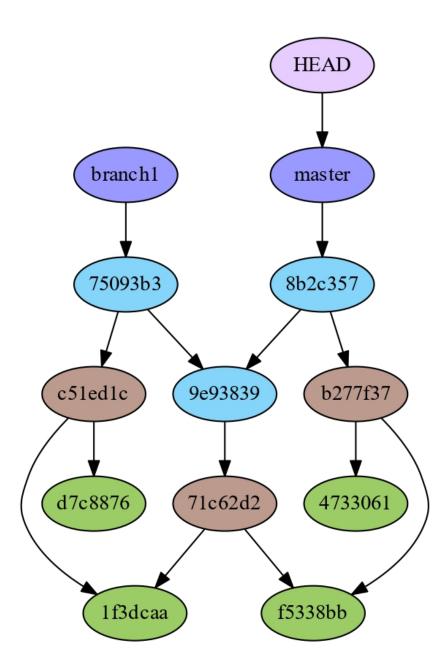


Figure 1.1: After Rebase

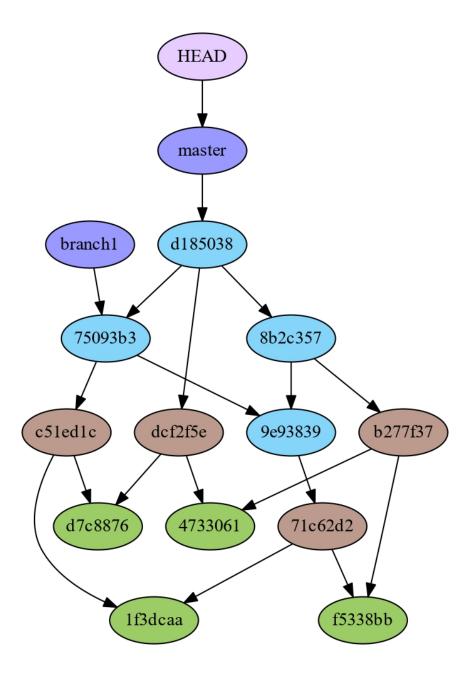


Figure 1.2: After Merge

b) In this case, we will show the condition where rebase is better than merge. The following is the script with the description for showing where the script here begins with the merging part of the git repository, by the following sequence of commands:

- -> mkdir a2q3
- -> cd a2q3
- -> git init
- -> echo "making of file1">>file1
- -> echo "making of file2">>file2
- -> git init
- -> git add file1
- -> git add file2
- -> git commit -m "commit1"
- -> git branch branch1
- -> echo "add this to file1">>file1
- -> git add file1
- -> git commit -m "commit2"
- -> git checkout -m "commit2"
- -> git checkout branch1
- -> echo "add this to file2">>file2
- -> git add file2
- -> git commit -m "commit3"

After the merging showing the results

-> git graph

Doing the rebase instead of the merge

-> git rebase master

Showing the results in the graph

-> git graph

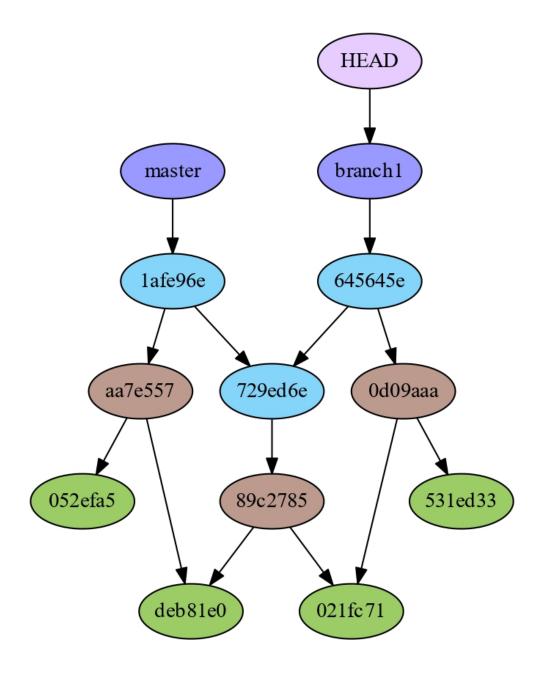


Figure 1.3: After Merge

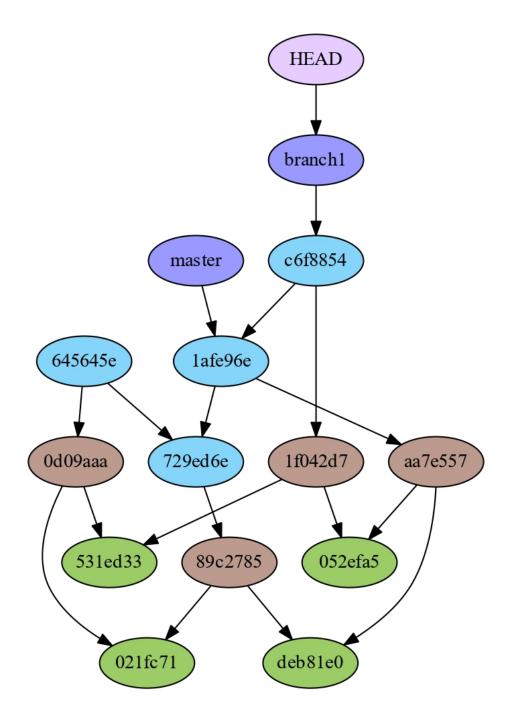


Figure 1.4: After Rebase