MInteractive Rebare

S A tool for ophimizing & cleaning up commit this boy

- change commit's message
- delete commits
- revider commits
 - Combine multiple commits into one commit into
 - edit Isplit on existing multiple new ones.

* Procedure to apply Interactive Rebair

- 1. To determine the range of commits which is needed to be change (what should be base commit?)
- 2. git rebore i Head ~ 3
- 3. In editor, determine the actions to perform | submodules ore

reword - helps to change the commit message Squash - works by combining the line we mark up nere with the one above.

A Cherry picking: - (Integrating Single, Specific Co cherry pick allows to select individual commity to be integrated.

(C1) (- - - - - (3) (- - - - - (2) - | branch A) _ - - · (2) <- - - - (4) - brand B

(Here; we integrated (2 but not (4)

When to we? when Commit is accidently made to the wrong branch. You can swith to the correct branch & cherry pick the commit to where it Should belong.

Points to Remember:

- Commits manipulated will have new hash IDs (like new commit)
- > Do not use Interactive rebare on the commits that are already pushed shared on remote repo.

- Use it for cleaning up local commit history before merging.

-> Reflug contains in formation about the former state of brunches and allows for reverting state if necessary > Reflog is used to:-

- Restore commiy - Restore deleted branky

> like repo under the parent repo

- Submodules are we to keep the original work and third party content separate. * Procedure to apply cherry pick :-

1. Coppy the hashID of the commit

which is needed to cherry pick
2. Go to the branch; where it is
needed to be integrated.

3. git cherry - pick < hash 10>

4. To delete the last commit from the branch : -

Go to that brunch using checkoul git reset -- hard HEAD~1

A Refloy: -

To keep track of changes made to branch tips

-> Refloy keep track of when gil references in the local reposition were modified.

-> A separate reflog is kept for git stam.

- Reflogs are kept infolders under git directory of the local reposiby.

git reflog

N Submodules:-

G fully functional & Gitupo. De con modify files commiz, pullipush from inside.

git submodule odd (git repa)

A Scarch & Find

(Filtering Commit History)

by date -- before 1 -- after

by message --grep

--author

by author

-- < filename

by branch (branch A)

git log grep = "refactor"
git log --author = "hrishibu
332"

git log -- after = = = 2023 - 2-1)

-- be fore = "2023 - 5-2"