GIT GROUP ASSIGNMENT



Topic - Cherry-Picking

GROUP 11

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Cherry-Picking Command



Cherry picking command is used to pick any git commit by using reference and append it to the working directory.

Basic Syntax -

git cherry-pick <commit-reference>

Why Cherry-Pick?

• It can help in applying changes committed in wrong branch accidently.

Apply some changes from other branch to your branch.

If merge is not possible due to incompatible versions of the branches.

Steps for git cherry-pick

- 1. git checkout
 sranch name from which we have to pick commit from>.
- 2. git log To get the commit reference of the commit you have to pick.
- 3. git checkout
branch name to which commit has to be applied>.
- 4. git cherry-pick <commit reference>.

Getting the reference of commit

We can get the reference for commit by using git log command

```
MINGW64:/c/Users/aman2/OneDrive/Desktop/Assignment/Group-11-Cherry-P...
uman@LAPTOP-7I5TS7S1 MINGW64 ~/OneDrive/Desktop/Assignment/Group-11-Cherry-Pick
(from-branch)
ait loa
commit 763e781d0bbd27a1e6535d32be6d9fff9a19b495 (HEAD -> from-branch, origin/fro
Author: shivamgupta-sg <76810109+shivamgupta-sg@users.noreplv.github.com>
       Sun Jan 10 10:54:40 2021 +0530
   Create cherry-picking
commit 9ed061c938e5d85405e7a6510d6ab27b2582c65c (origin/main, origin/HEAD, main)
Author: shivamgupta-sg <76810109+shivamgupta-sg@users.noreply.github.com>
       Sun Jan 10 10:52:45 2021 +0530
   Initial commit
uman@LAPTOP-7I5TS7S1 MINGW64 ~/OneDrive/Desktop/Assignment/Group-11-Cherry-Pick
(from-branch)
```

Example for cherry-pick

```
MINGW64:/c/Users/aman2/OneDrive/Desktop/Assignment/Group-11-Cherry-P...
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
Aman@LAPTOP-7I5TS7S1 MINGW64 ~/OneDrive/Desktop/Assignment/Group-11-Cherry-Pick
(main)
$ git branch aman
Aman@LAPTOP-7I5TS7S1 MINGW64 ~/OneDrive/Desktop/Assignment/Group-11-Cherry-Pick
(main)
 git checkout aman
Switched to branch 'aman'
Aman@LAPTOP-715TS7S1 MINGW64 ~/OneDrive/Desktop/Assignment/<u>Group-11-Cherry-Pick</u>
(aman)
$ git cherry-pick 763e781d0bbd27a1e6535d32be6d9fff9a19b495
[aman a1c3f50] Create cherry-picking
 Author: shivamgupta-sg <76810109+shivamgupta-sg@users.noreply.github.com>
 Date: Sun Jan 10 10:54:40 2021 +0530
1 file changed, 1 insertion(+)
create mode 100644 cherry-picking
Aman@LAPTOP-715TS7S1 MINGW64 ~/OneDrive/Desktop/Assignment/Group-11-Cherry-Pick
(aman)
```

Other options in cherry-pick command

-n or --no-commit: Brings the changes of the commit to the staged area of current branch but no commit it.

-e or --edit : Lets you edit the commit message prior to commit.

-x : Appends a line "(cherry picked from commit ...)" to the original commit message, indicating from where commit is picked from. Only for the commits cherry-picked from public branch.

-n or --no-commit

```
MINGW64:/e/GitHub/Group-11-cherry-pick
                                                                               X
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (to-branch)
$ git cherry-pick dc59b33c14376a6a7258ccb7864ebc25e79acf5f -n
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (to-branch)
$ git status
On branch to-branch
Changes to be committed:
 (use "git restore --staged <file>..." to unstage)
       new file: cherry-pick-testing
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (to-branch)
$ git commit -m "cherry-pick -n testing"
[to-branch 8bef5d4] cherry-pick -n testing
1 file changed, 1 insertion(+)
create mode 100644 cherry-pick-testing
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (to-branch)
$ git cherry-pick dc59b33c14376a6a7258ccb7864ebc25e79acf5f -n
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (to-branch)
$ git status
On branch to-branch
nothing to commit, working tree clean
```

-e or --edit

```
MINGW64:/e/GitHub/Group-11-cherry-pick
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (from-branch)
 git log --oneline
c59b33 (HEAD -> from-branch) cherrypick testing
5794232 (origin/Shivam, Shivam) checking if working
237b18f (origin/main, origin/HEAD, to-branch, main) Update README.md
f5247bc Initial commit
Palace@Moon-Palace MINGw64 /e/GitHub/Group-11-cherry-pick (from-branch)
 git checkout to-branch
Switched to branch 'to-branch'
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (to-branch)
 git cherry-pick dc59b33c14376a6a7258ccb7864ebc25e79acf5f -e
[to-branch fce4235] cherrypick -e testing
Date: Sat Jan 9 17:41:47 2021 +0530
1 file changed, 1 insertion(+)
create mode 100644 cherry-pick-testing
Palace@Moon-Palace MINGW64 /e/GitHub/Group-11-cherry-pick (to-branch)
git log --oneline
ce4235 (HEAD -> to-branch) cherrypick -e testing
237b18f (origin/main, origin/HEAD, main) Update README.md
5247bc Initial commit
```

Git cherry-pick <code> --signoff

The "git cherry-pick <code> --signoff " command just add a line of signature of the person who make the changes after the commit message . (as shown in screenshot attached) .

tkarsh Upadhyay@Utkarsh-UPdhyay MINGW64 /g/Workspace/Group-11-cherry-pick (utkarsh_branch) \$ git checkout main Switched to branch 'main' Your branch is up to date with 'origin/main'. Utkarsh Upadhyay@Utkarsh-UPdhyay MINGW64 /g/Workspace/Group-11-cherry-pick (main) \$ git cherry-pick 2642b0bdceb937bfcdd4f8e0e6f5f5eda63441bf --signoff [main 36f82dd] Second Commit Date: Sat Jan 9 23:58:35 2021 +0530 1 file changed, 3 insertions(+), 1 deletion(-) Jtkarsh Upadhyay@Utkarsh-UPdhyay MINGW64 /g/Workspace/Group-11-cherry-pick (main) \$ git log commit 36f82dd24aa88556ee13966d59a83cbe1d5d0fed (HEAD -> main) Author: utkarshup11 <utkarsh.upadhyay@knoldus> Date: Sat Jan 9 23:58:35 2021 +0530 Second Commit Signed-off-by: utkarshup11 <utkarsh.upadhyay@knoldus> ommit cfee8a8ffe1ab3d8f00d6c46772f591da8f19036 (origin/main, origin/HEAD) Author: utkarshup11 <utkarsh.upadhyay@knoldus> Date: Sat Jan 9 23:37:43 2021 +0530 This is my first commit commit 987b0731d63c5e60dd80de0bfe12a1f602f377b0 Author: shivamgupta-sg <76810109+shivamgupta-sg@users.noreply.github.com> Date: Sat Jan 9 16:45:50 2021 +0530 Update README.md commit 237b18f51afbfcb94cb8a9f2ccbc4d32797071ed Author: shivamgupta-sg <76810109+shivamgupta-sg@users.noreply.github.com> Date: Sat Jan 9 15:17:17 2021 +0530 Update README.md commit f5247bcf2919d8869a96c26c75ab4dd568c59b1f Author: shivamgupta-sg <76810109+shivamgupta-sg@users.noreplv.github.com> Sat Jan 9 15:15:11 2021 +0530 Initial commit

Some Usage Of Cherry-Pick

- 1. We can avoid useless conflicts by using git cherry-pick instead of other options.
- 2. It is used to access the changes introduced to a sub-branch, without changing the branch.
- 3. Most of the time we use cherry-pick to restore the commits which we lost.
- 4. Sometimes for undoing the changes made we have to apply cherry-pick.

Link for the Group Repository

shivamgupta-sg/Group-11-Cherry-Pick: Git Group Assignment - Group 11 (github.com)