

# Rewrite history

## change initial commit

```
git rebase -i --root
```

## reformat code in commits

### git rebase

```
git rebase main -x 'make clang-reformat && git commit --amend'
```

### git-filter-repo

```
wget https://raw.githubusercontent.com/newren/git-filter-repo/main/contrib/filter-repo-demos/lint-history
chmod +x lint-history
```

Apply patch from <https://github.com/newren/git-filter-repo/issues/552>

```
./lint-history \
  --refs main..feat-clang2 \
  --relevant 'return filename.endswith(b".c") or filename.endswith(b".h")' \
  clang-format-16 -i
```

## reword commits

[Automatically reword all rebased commits](#)

Following will automatically execute default editor for every commit:

```
git rebase origin/master -x 'git commit --amend'
```

## Remove files from history (rewriting)

Iterate through history and remove all files matching pattern:

```
git filter-branch --tree-filter 'rm -f m* z* x* w* s* r*' --prune-empty HEAD
```

```
sudo apt install git-filter-repo
```

Remove workspace dir:

```
git filter-repo --path workspace --invert-paths --force
```

## Move from subdir to root

```
git filter-repo --path-rename 'MYDIR/:'
```

## Move from root to subdir

```
git filter-repo --path-rename ':app/'
```

## apply dos2unix

```
git filter-branch --tree-filter 'git ls-files -z | xargs -0 dos2unix' -- --all
```

## clean backups refs

filter-branch makes backup by creating refs/original/\*. To clean all backups refs from rewriting history tools:

```
git for-each-ref --format="%(%(refname))" refs/original/ | xargs -n 1 git update-ref -d
git for-each-ref --format="%(%(refname))" refs/replace/ | xargs -n 1 git update-ref -d
```

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