**Undoing Changes:**

Kisi bhi particular commit pr jaane k liye

* Git checkout comithash

**Extra:**

HEAD always refers to a branch. Lekin jb hum git checkout commithash chalaty hein to head refer krne lgta hy us particular commit ko. Matlab head detached hogya hy.

**Re-Attaching Detached HEAD:**

Git checkout master ya git switch master kr k hum dubara attach kr skty hein apna detached HEAD.

**Other ways to reference other commits:**

* **Git checkout HEAD~1 :** ye us commit pr jyega jo commit HEAD se pehle tha.
* **Git checkout HEAD~2:** ye wala us commit pr jyega jo Uper wale point me jo likha hy us ka b parent hoga.

Ye ap tab use kro agr ap apna aik 2 commits se pehle dekhna chahty ho k apne kya kia tha or ap hash ni dekhna chahty to aese time travel kr lo.

Leave DETACHED HEAD by other way:

* Git switch –

**Discarding Changes:**

Revert back to previous commit. Agr apne kuch likh dea hy ghalti se or ab ap wo hatana chahty ho. Aik trika to ye hy k ap files mese jaa k hata do wo sab agr apne commit ni kia hua. Lekin agr files bht zyada hein jhn jhn changes kr diye hein sare hatane hein to command useful rhygi.

* Git checkout HEAD <file-name>
* Git checkout -- <file-name> <file-name>

Files screwed up kr di hein agr tab b ye command useful hy agr abhi tak apne add ya commit ni kia bs file modify ki hy to.

**Git Restore:**

* **Git restore <file-name>**
* **Git restore –source HEAD~# <file-name>**

Git restore ka aik use ye b hy k humny agr stage krdi hein kuch files to hum unhy unstage kr skty hein.

* Git restore –staged <file-name>: aesa krne se ap stage hui v files ko unstage kr skty ho.

**Undoing Commit:**

* Git reset commithash: apny kuch commits kr liye lekin ko khyal aya k ye commits yahan ni hone chhaiye thy to ap apni repo clear kr skty ho git reset command k zariye. Is se hoga ye k apki commits k list mese us mentioned commit k baad k sare commits urr jingy lekin jo changes apne kit hi wo apki working directory me show hongi. Ap back jaa kr new branch bna k whn wo changes commit krdo agr ap rkhna chahty ho to.
* It removes the commits but it don’t remove the changes in the working directory.
* Git reset –hard <commit-hash> : agr ap wo changes apne sath ni le k jana chahty apny kisi doosri branch me b ni commit krni to ye option best rhy ge.

Git Revert:

Sound similar kr ri hy git reset k sath lekin ye different hy git reset aese hy jese remove hone wale commits kabhi thy hi ni lekin revert aik new commit bnata hy or usko wesa bnata hy jesa ap dekhna chah rhy thy back in time jaa kr.

* Git revert commithash

**Exercise Understanding Notes:**

1. **Git clone** chala kr repository clone ki.
2. Commit history dekhne k liye **git log –oneline** chalaya. Humy 8 commits nzr aye.
3. **Git checkout firstcommithash** chalaya humara HEAD Detached hogya or hum sb se first commit pr chale gye.
4. **Git checkout/switch master** or **git switch --** kr k humny HEAD Dubara attach kr lia file ko dekhne k baad.
5. **Git checkout <finishorignallyricshashcommit>** is se hamra HEAD phr detach hogya.
6. **Git switch -c <branch-name>** aese kr k apni new branch bna li or us me switch b kr lia HEAD dubara attach b hogya.
7. **Git switch master** kia or file se sab remove kr k file save krdi lekin OHH! Ni krni thi.
8. **Git restore <file-name>** aese kr khoi hui changes dubara hasil kr li. **OR git checkout HEAD <file-name>** aese kr k bhi same kaam ho jaata.
9. Master me file k content ko change kr k add or commit kr dea.
10. Git reset <commit-hash>