**Case 1**

When you’re prompted for your GitHub username and password and get “fatal: Authentication failed for 'https://github.com/…'”

**Solution:** cd /path/to/Project // Directory for the project

git remote set-url origin https://USERNAME:YOUR\_PAT@github.com/gituser/project.git

// Credential for the specific project by embedding PAT in the original URL

git remote -v // Verify. If two links were shown, then RStudio “Push” button will use that token automatically.

**Case 2**

When you pull the git, it shows “fatal: refusing to merge unrelated histories”

**Solution:** git pull origin main --allow-unrelated-histories // Merge your local work with whatever’s on the Github

When you pull the git, it shows “error: The following untracked working tree files would be overwritten by merge: .gitignore”

**Solution:** mv .gitignore ../gitignore.backup // Move gitignore aside

git pull origin main // Pull the original main

When you have divergent branches and need to specify how to reconcile them.

You can do so by running one of the following commands sometime before

your next pull, “fatal: Need to specify how to reconcile divergent branches.”

**Solution:** git config pull.rebase false // Git fetches new commits from the remote, then it merges them into your current branch. Keeps exact history with merge commits.

**Solution:** git config pull.rebase true // Git fetch remote changes, rebase your local commits on top

**Case 3**

If you failed to commit on git and your local files aren't shown on the git window, want to re-stage and commit.

**Solution:** cd your\_local\_directory // cd to repo directory, escape the space

ls -l // List what’s in your working directory

git add folder/ // Stage the folder manually

git commit -m “Add folder/”

**Case 4**

Remove specific file on Github, but keep it on local folder

git rm -r --cached folder // Un‐stage the folder but leave it on disk

git add .gitignore // Stage the change

git commit -m "Stop tracking folder/ directory" // Commit removal

git push origin main // push to web