

# **GIT**

## **Level2**

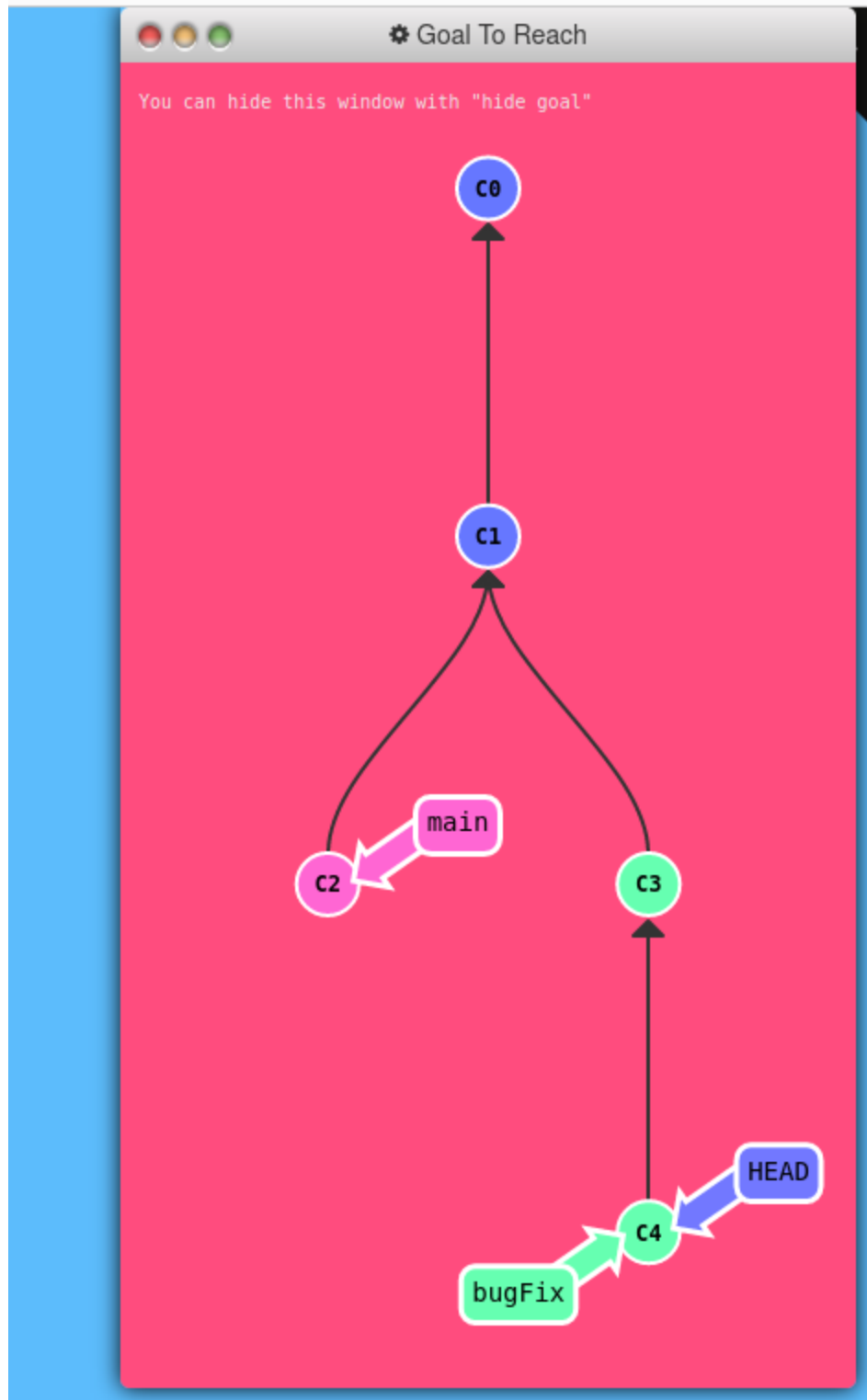
### **Task 1**

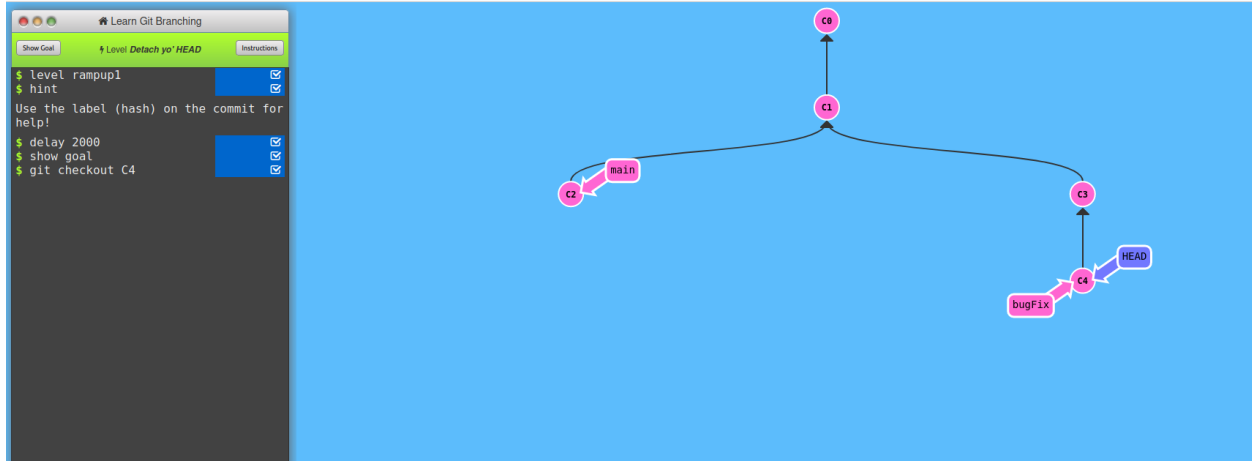
First we have to talk about "HEAD". HEAD is the symbolic name for the currently checked out commit -- it's essentially what commit you're working on top of.

HEAD always points to the most recent commit which is reflected in the working tree. Most git commands which make changes to the working tree will start by changing HEAD.

Normally HEAD points to a branch name (like bugFix). When you commit, the status of bugFix is altered and this change is visible through HEAD.

In this task we have to show the head pointer pointing bugFix branch.

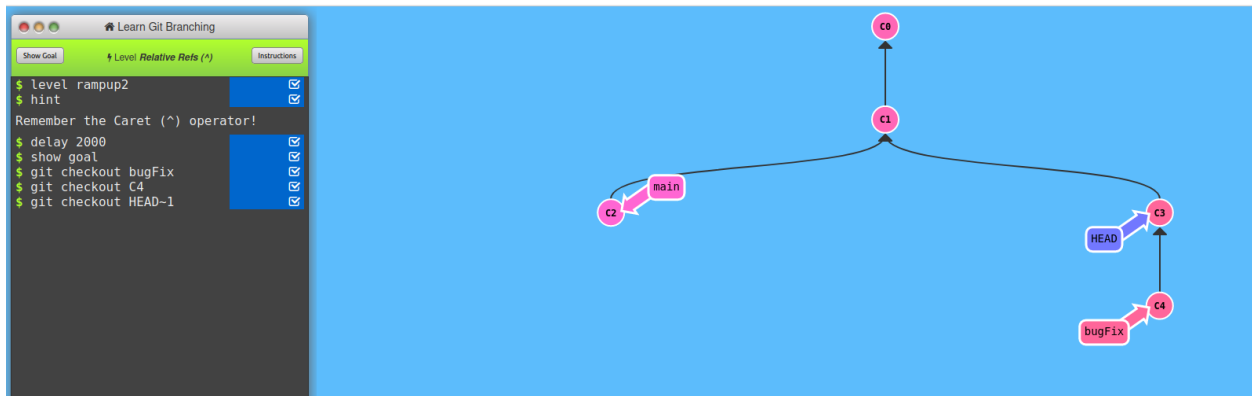




```
git checkout C4
```

## Task 2

In this task we have to move the head pointer to 1 step above the bugFix branch on which the head is currently pointing.



```
git checkout bugFix
git checkout C4
git checkout HEAD~1
```

## Task 3

~ operator and branch forcing.

The `git branch -f` (or `git branch --force`) command in Git allows you to forcefully reset a branch to point to a specific commit. This can be useful when you want to update a branch to match another commit, even if it means overwriting the existing branch history.

Learn Git Branching

Show Goal

Level Relative Refs #2 (~)

Instructions

```
$ level rampup3
$ hint
You'll need to use at least one direct
reference (hash) to complete this
level

$ delay 2000
$ show goal
$ git checkout bugFix
$ git branch -f bugFix HEAD~3
$ git checkout main
$ git checkout C6
$ git checkout main
$ git branch -f main C6
$ git checkout HEAD~3
```

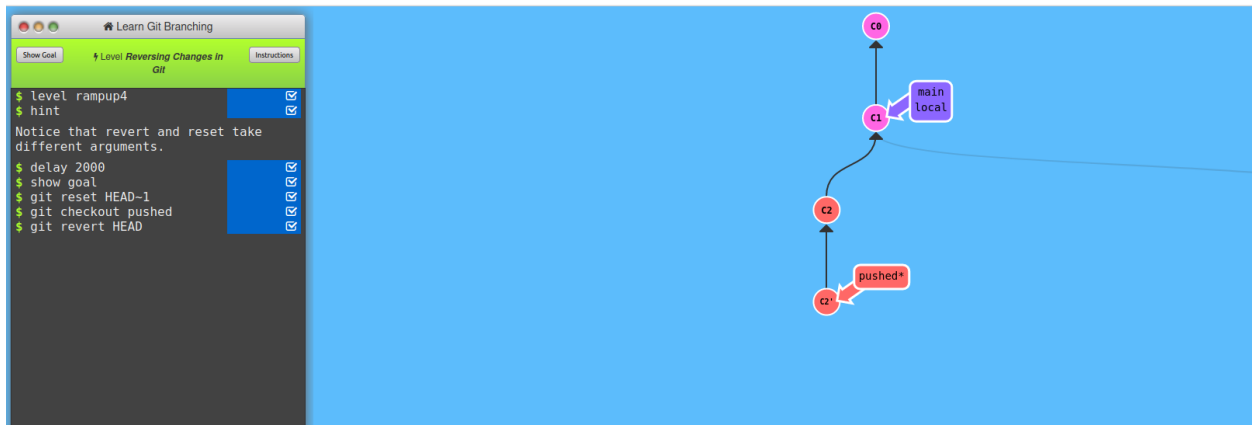
## Task 4

`git reset` will move a branch backwards as if the commit had never been made in the first place.

GIT

In order to reverse changes and *share* those reversed changes with others, we need to use `git revert`.

In this task we have to use reverse and revert command.



```
git reset HEAD~1
git checkout pushed
git revert HEAD
```