What is Git?

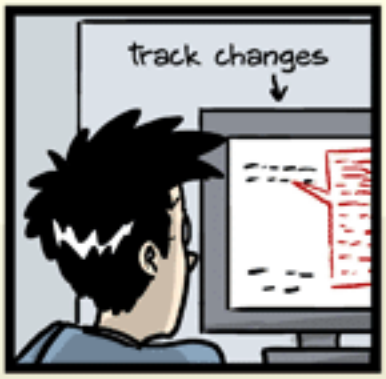
"FINAL".doc

FINAL.doc!

FINAL_rev.2.doc

FINAL_rev.6.COMMENTS.doc

FINAL_rev.8.comments5.
CORRECTIONS.doc



FINAL_rev.18.comments7.
corrections9.MORE.30.doc

FINAL_rev.22.comments49.
corrections.10.#@$%WHYDID
ICOMETOGRADSCHOOL????.doc

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A Basic Workflow

A Basic Workflow

Edit files

Stage the changes

Review your changes

Commit the changes

working directory

index

repository

working directory

a working copy
of your project

index

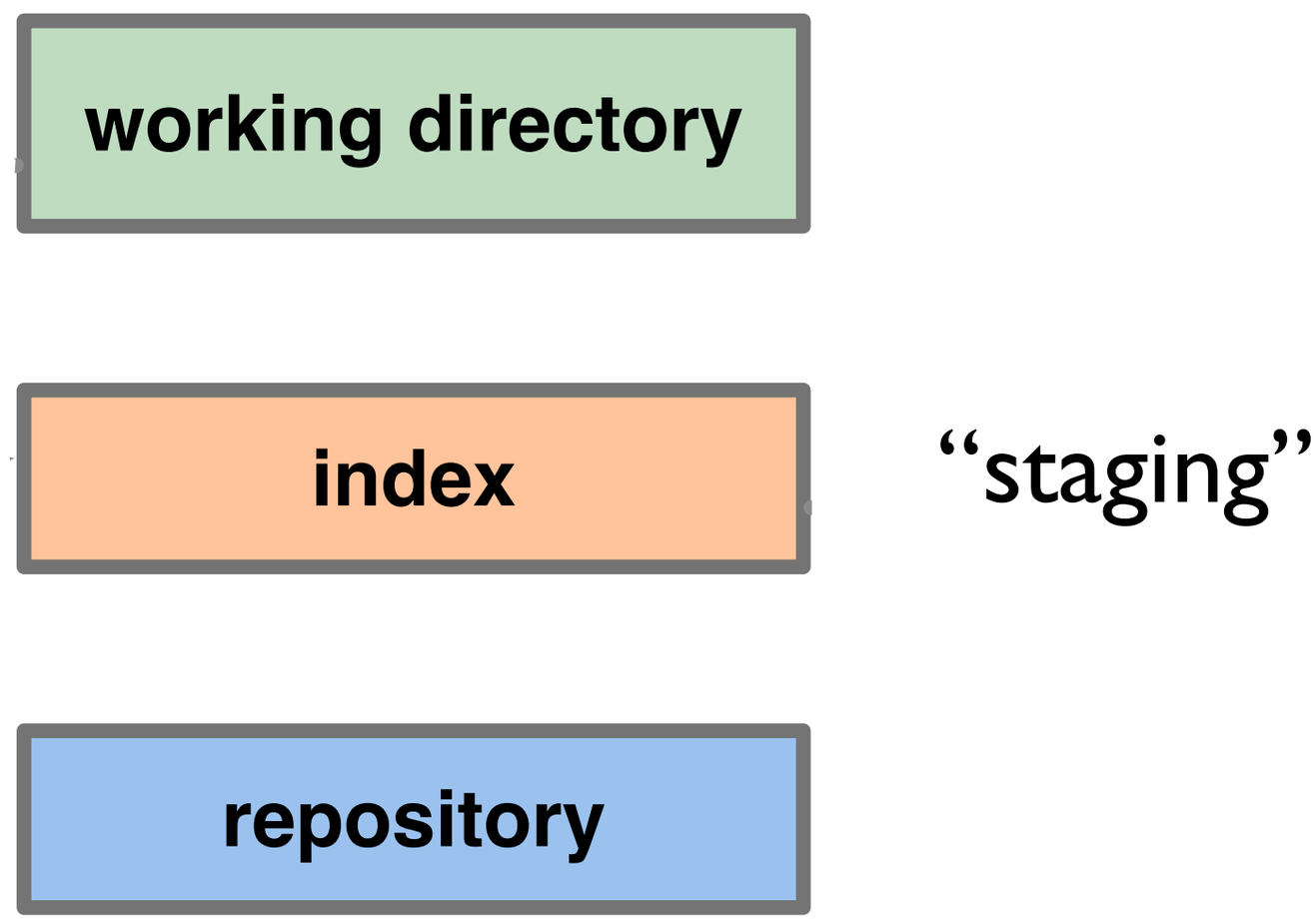
repository

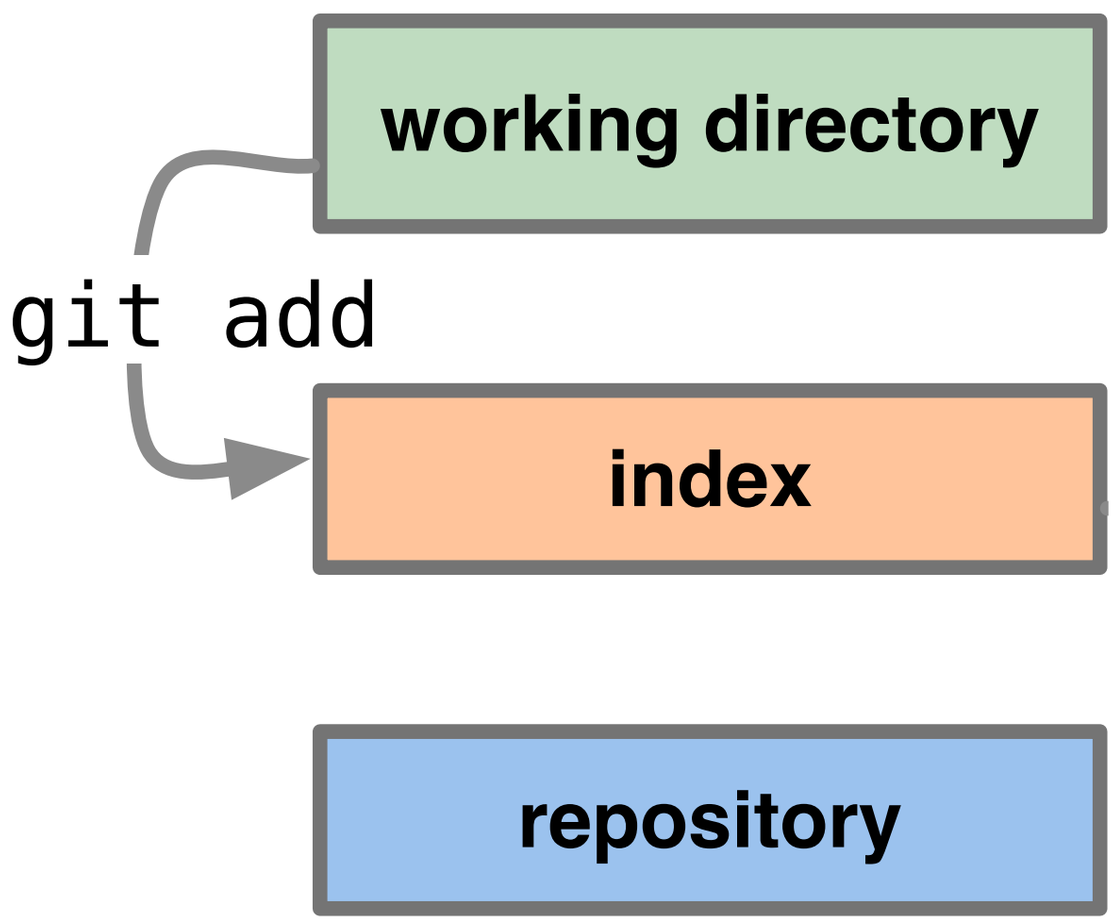
working directory

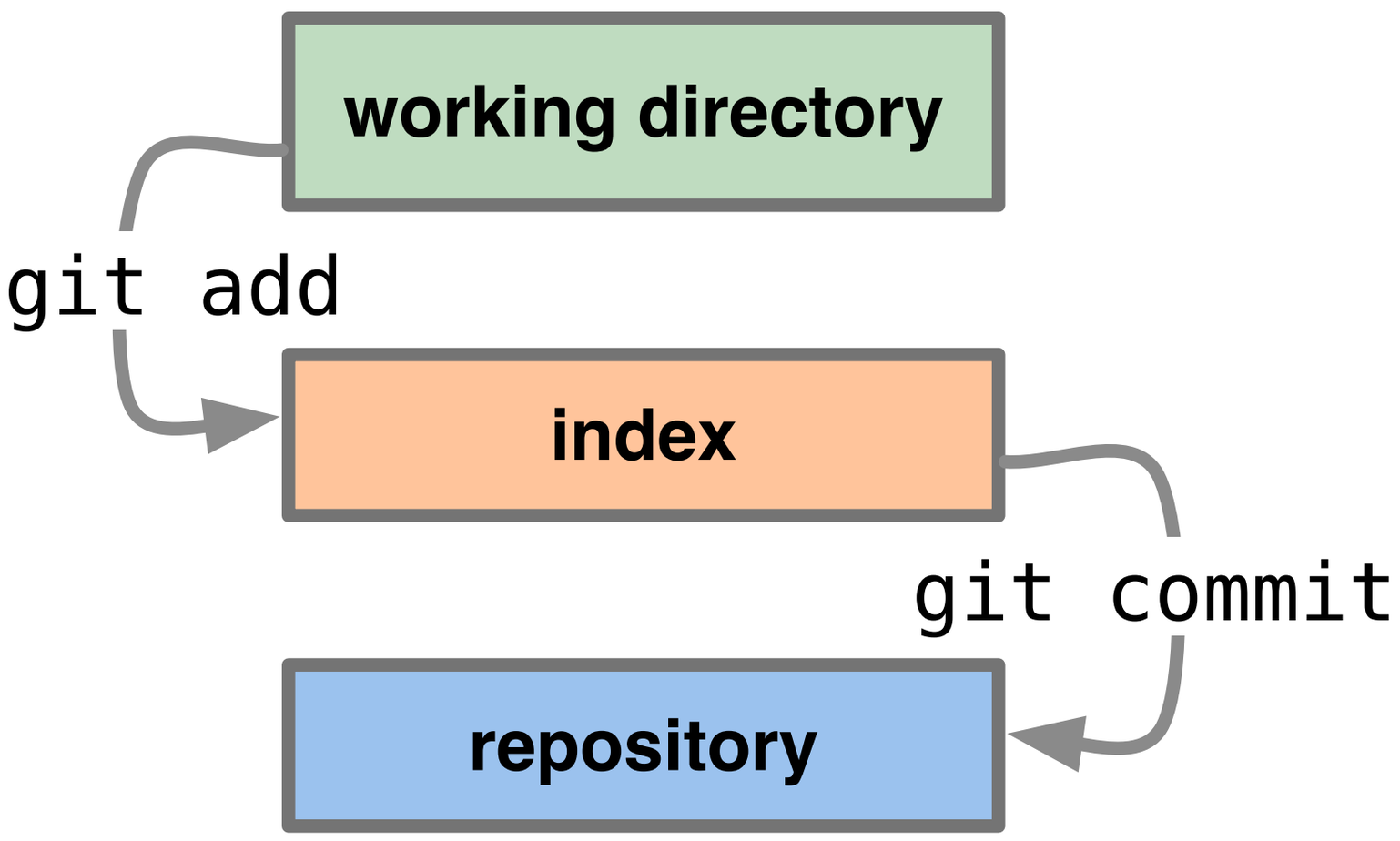
index

object database

repository


working directory
index
"staging"
repository


working directory
git add
index
repository


working directory
git add
index
git commit
repository

A Basic Workflow

A Basic Workflow

Edit files vim / emacs / etc

A Basic Workflow

Edit files — vim / emacs / etc

Stage the changes — git add (file)

A Basic Workflow

Edit files — vim / emacs / etc

Stage the changes — git add (file)

Review your changes — git status

A Basic Workflow

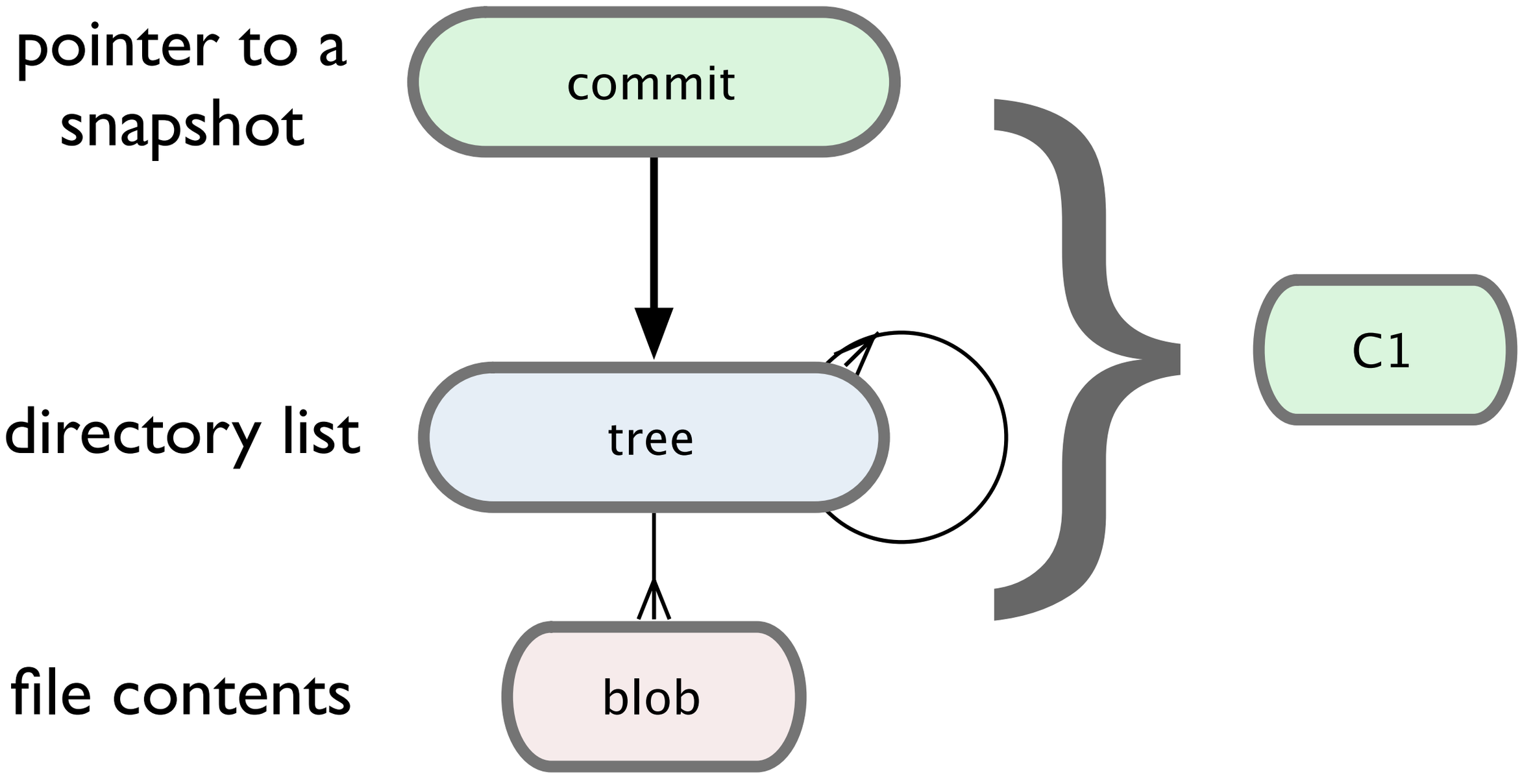
Edit files	vim / emacs / etc
Stage the changes	git add (file)
Review your changes	git status
Commit the changes	git commit

A Basicerer Workflow

Edit files — vim / emacs / etc

Stage & commit the changes — git commit -a

object model

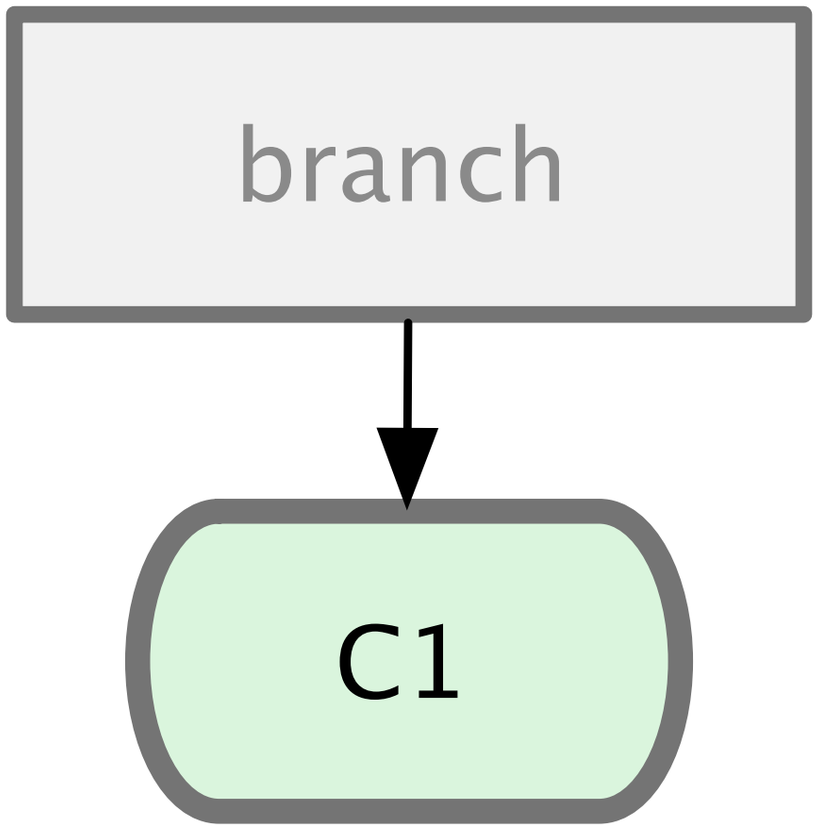


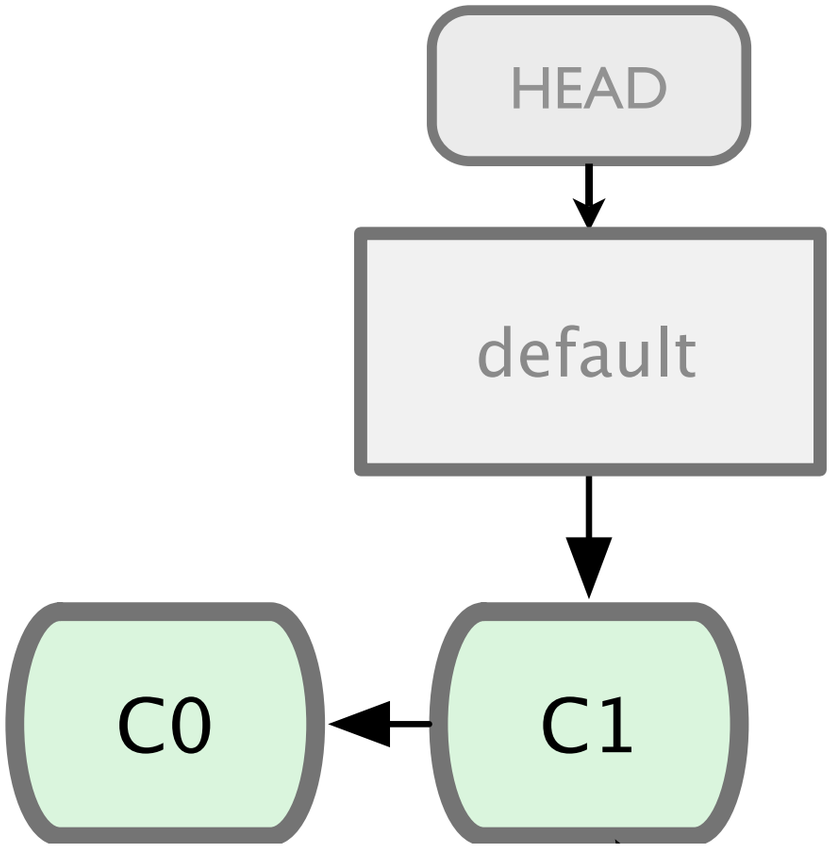
Branching and Merging

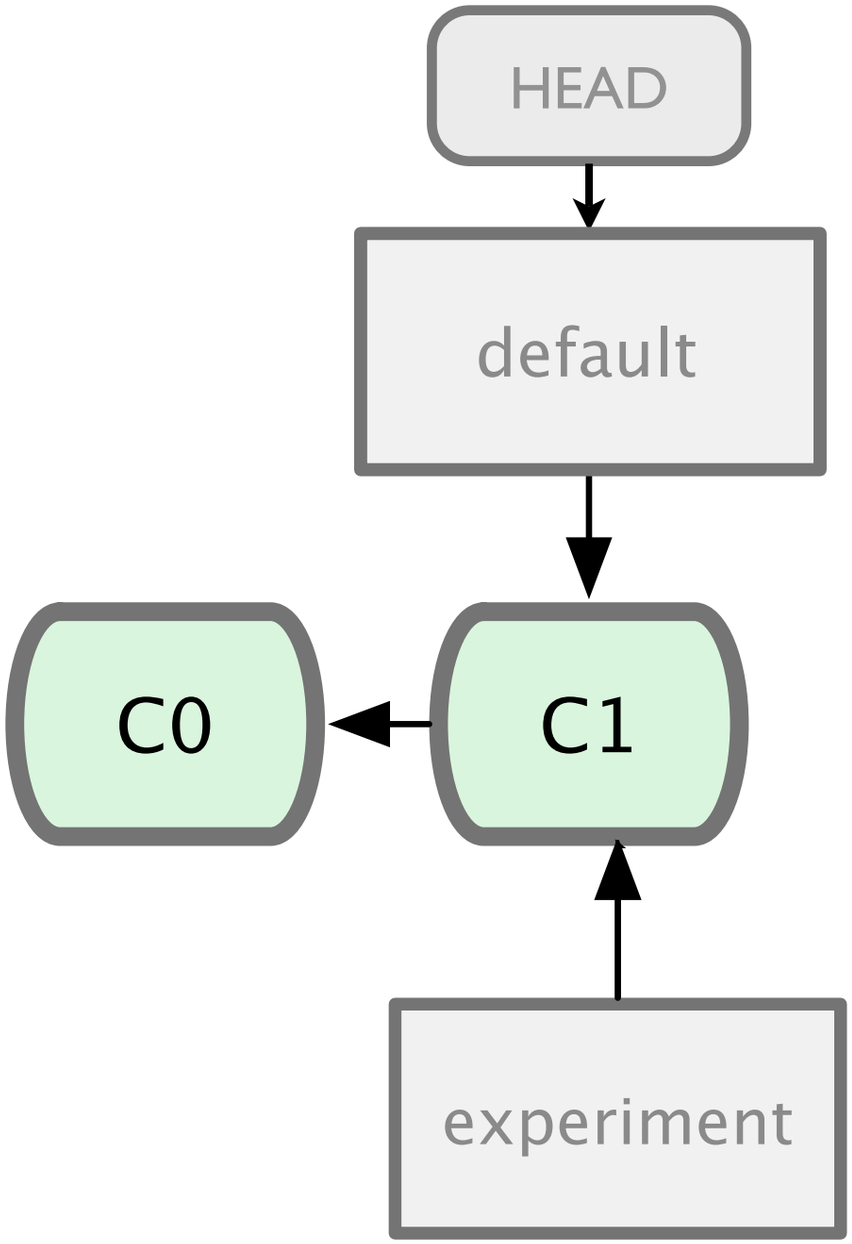
branches

branches

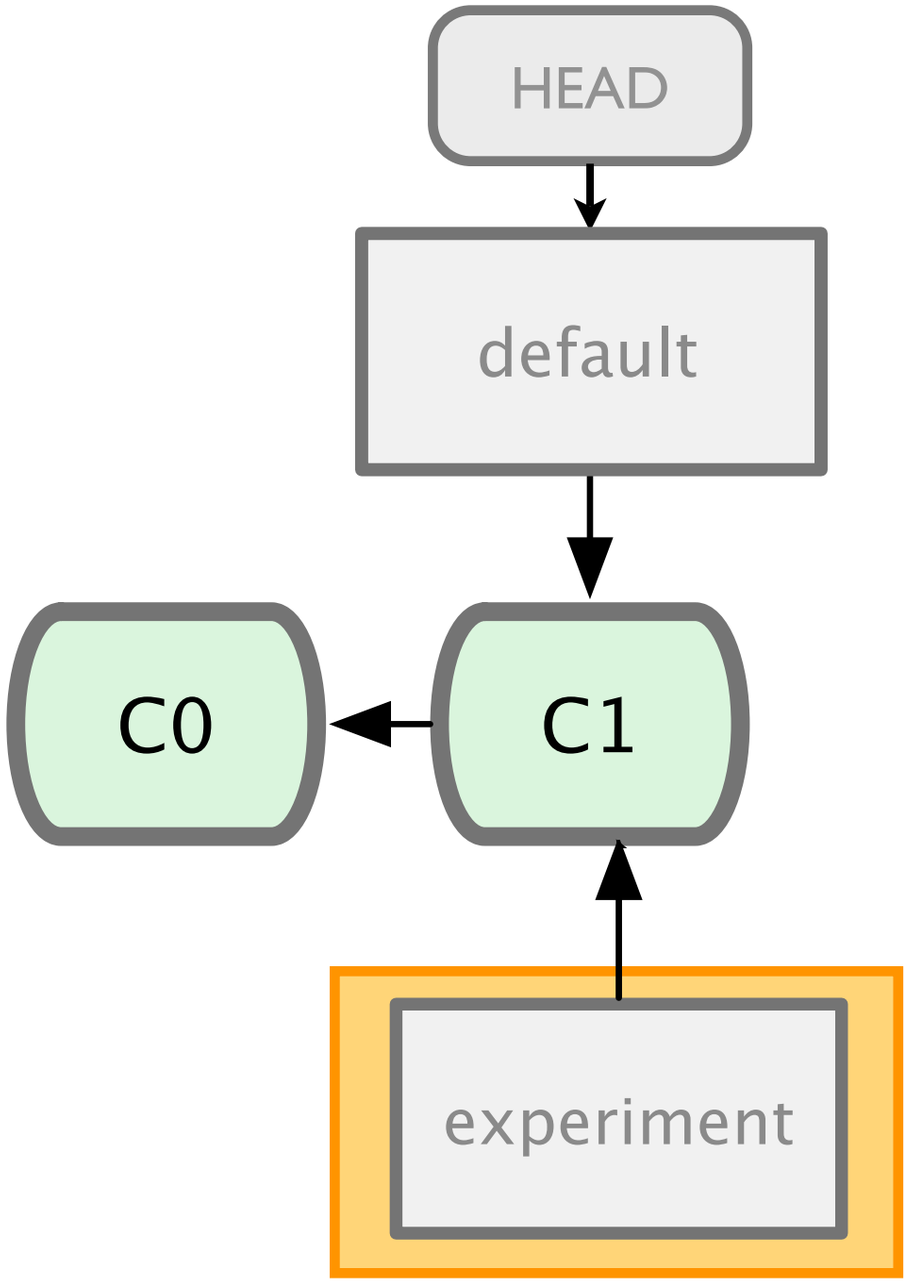
lightweight, movable pointers to a commit



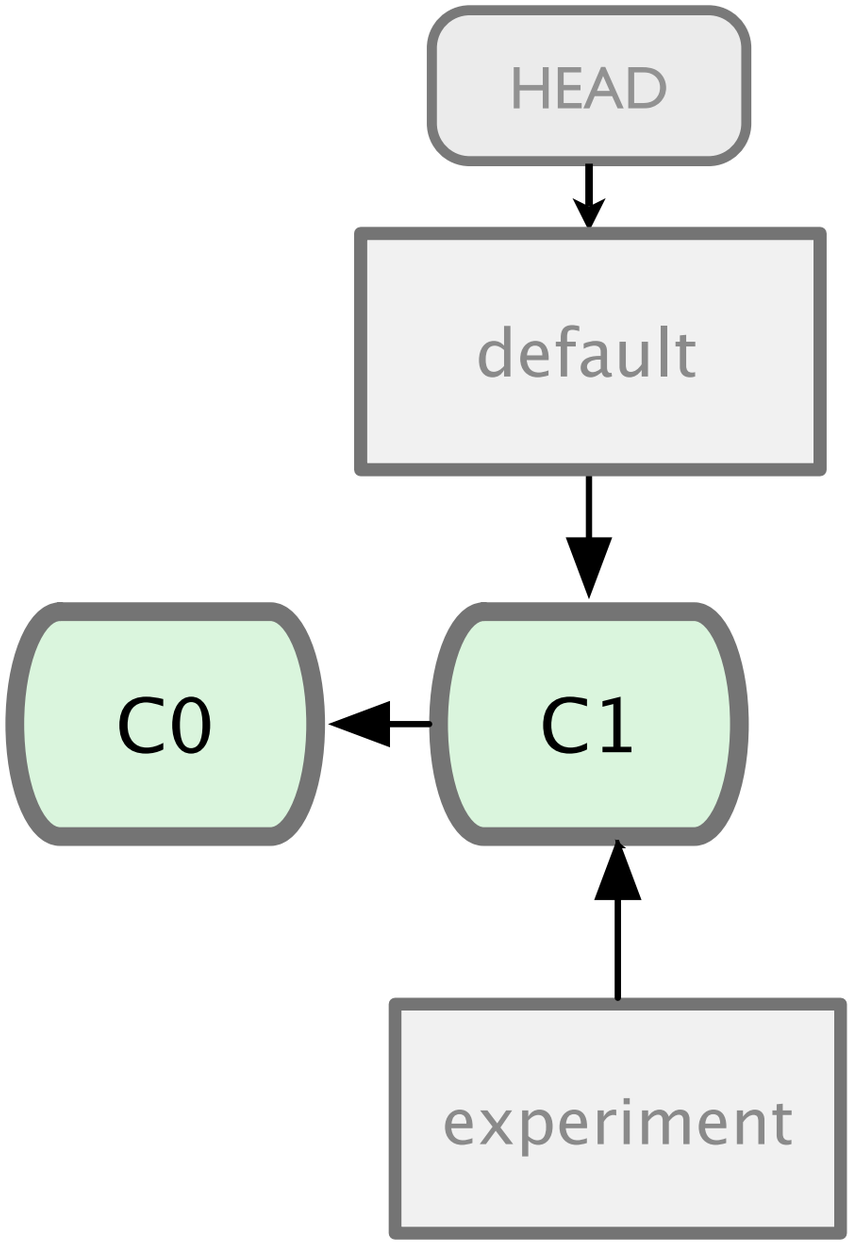

HEAD
default
C0
C1



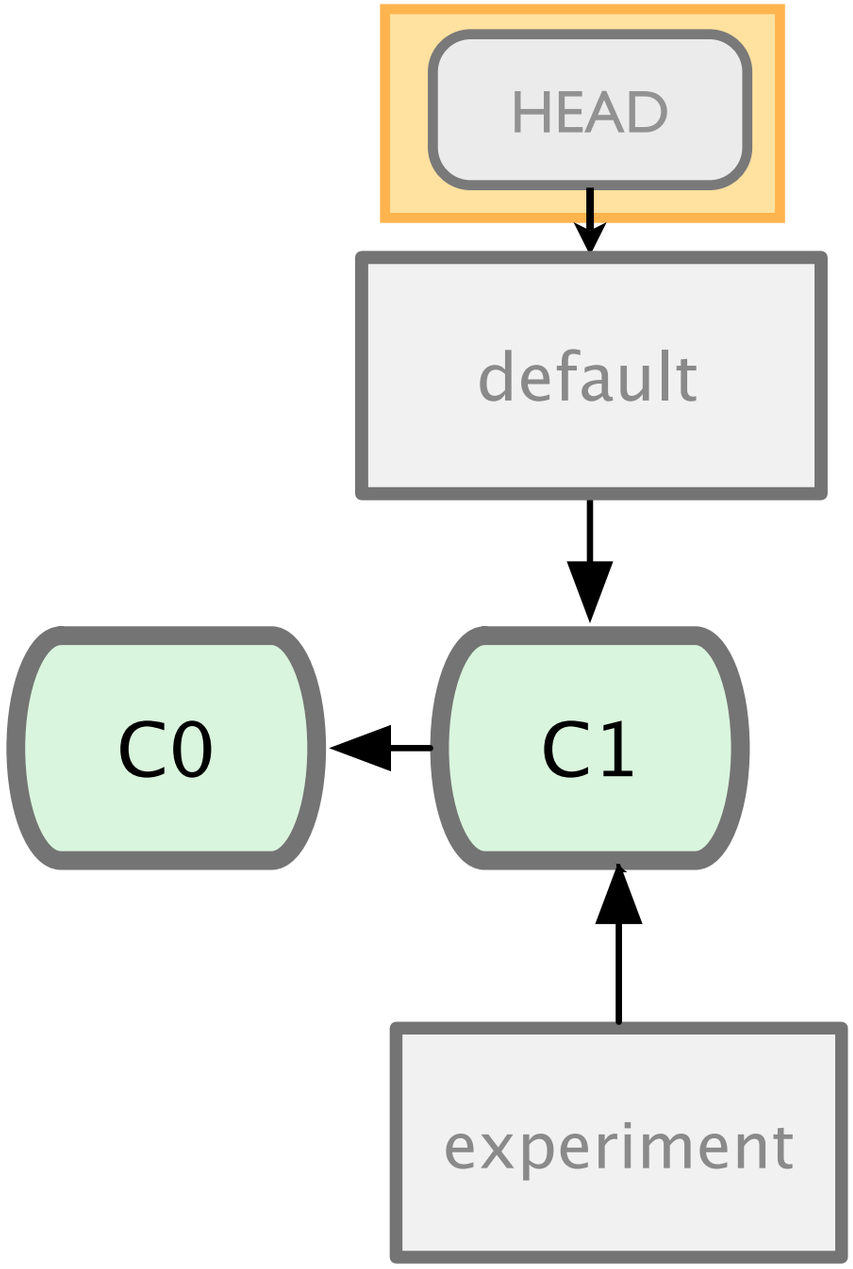
git branch experiment



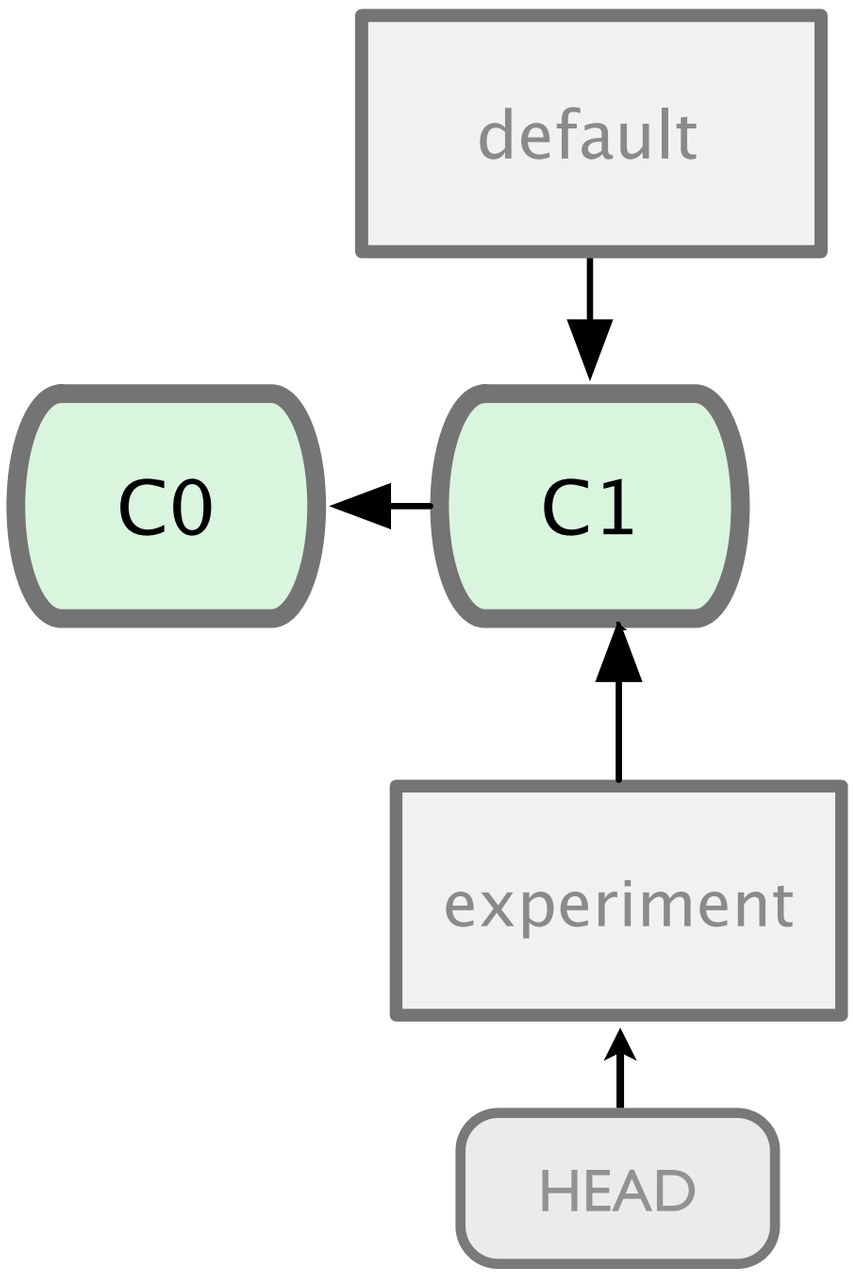
git branch experiment



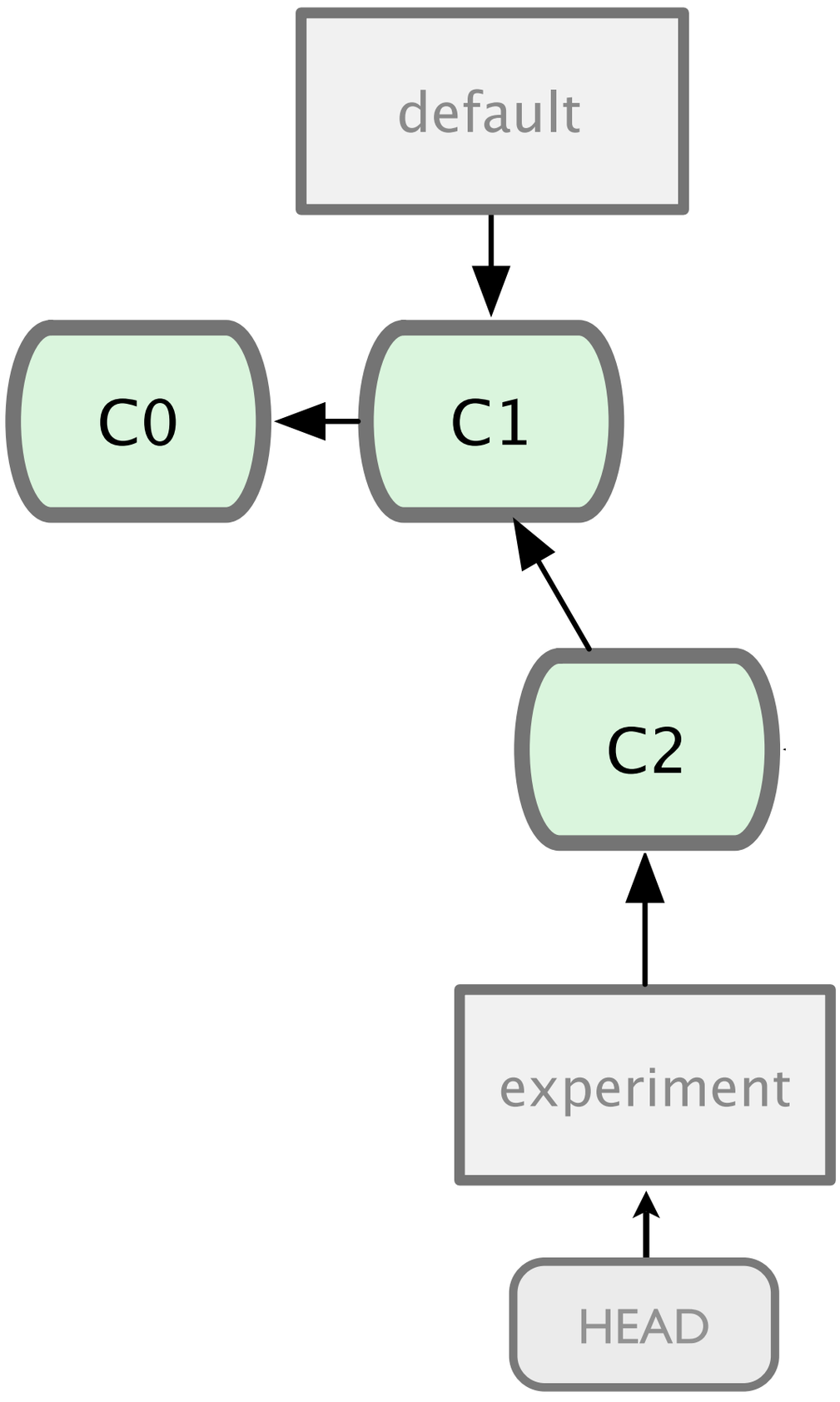

```
$ git branch
* default
  experiment
```



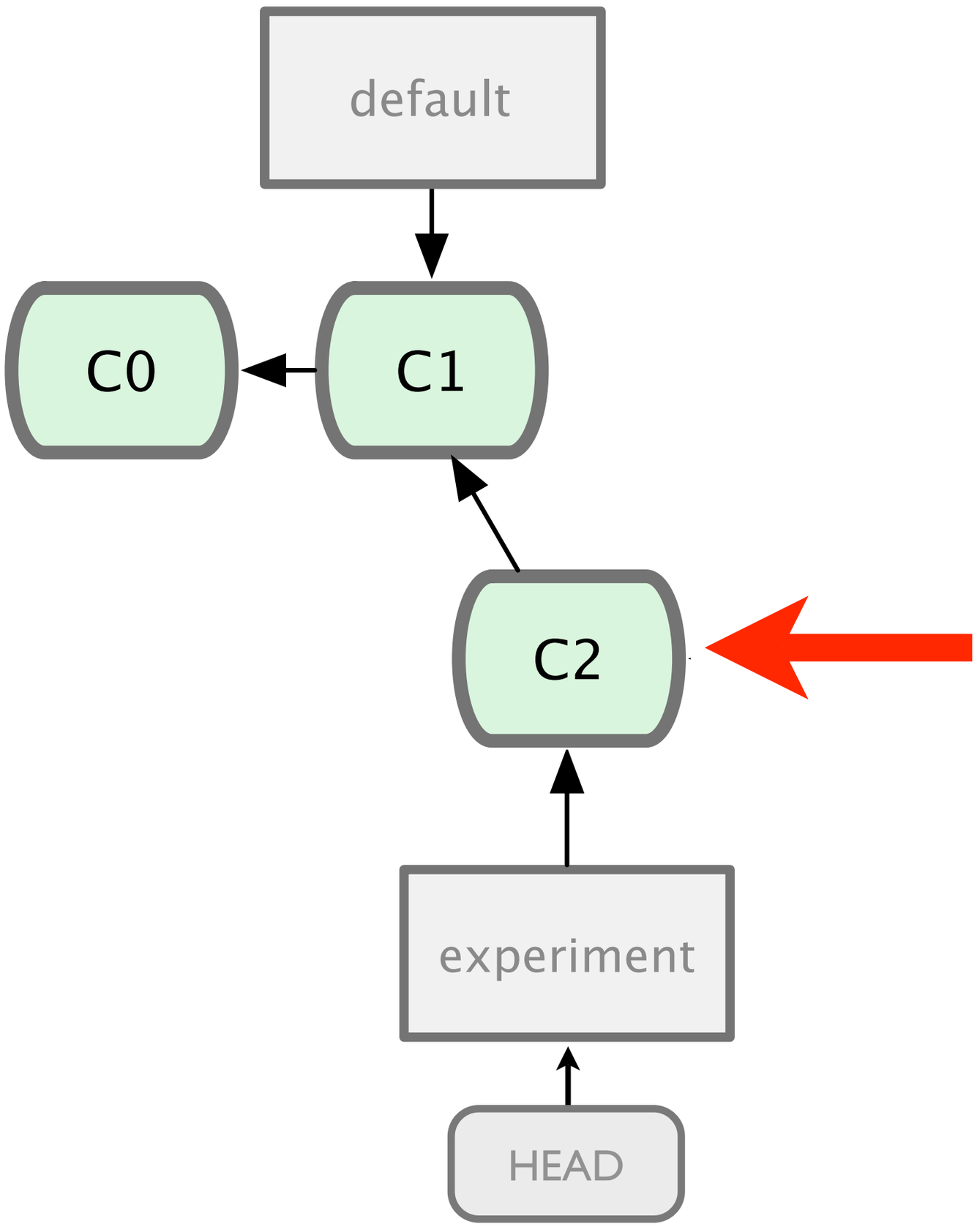

```
$ git branch
* default
  experiment
```



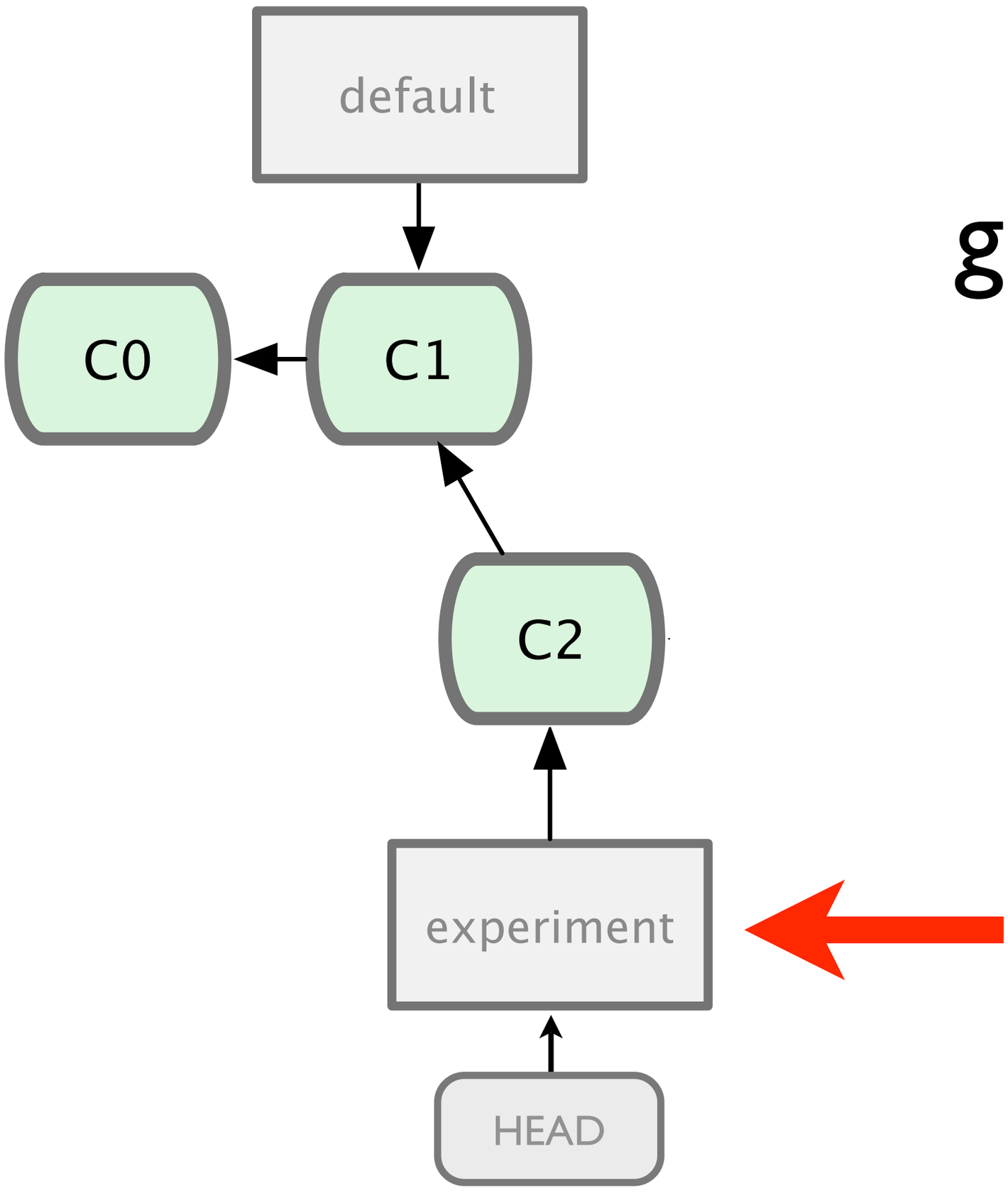
git checkout experiment



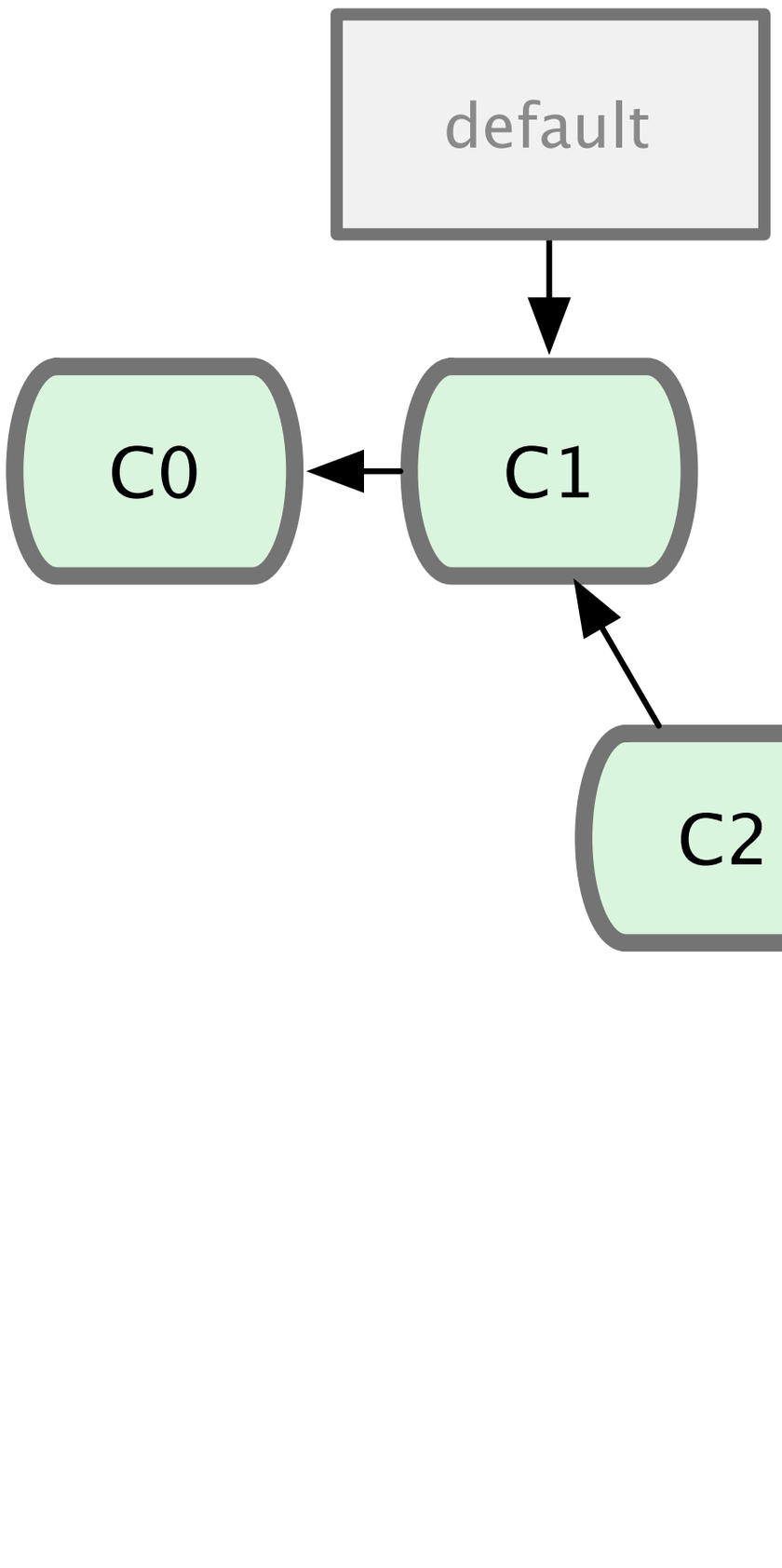
git commit



git commit

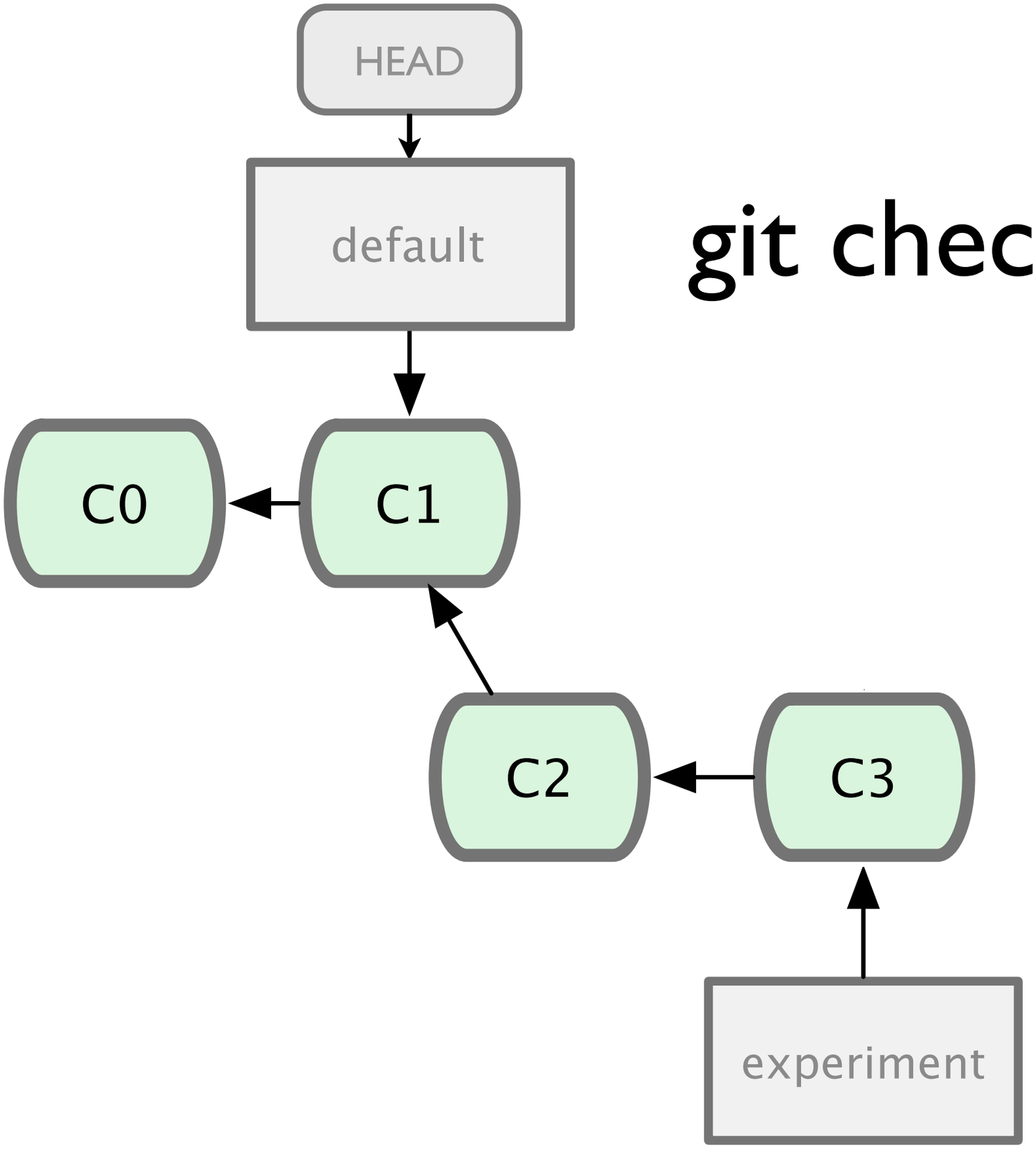


git commit

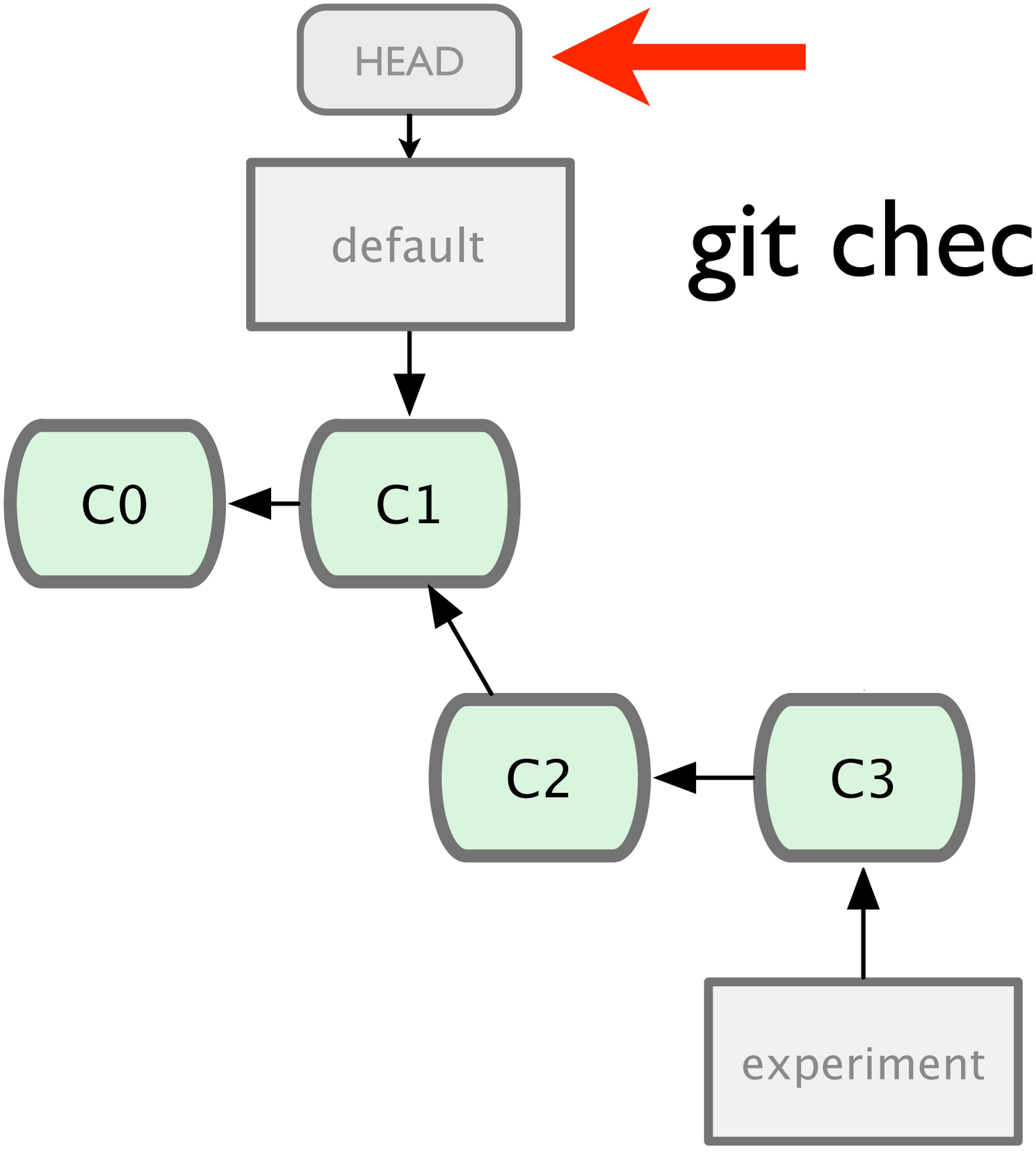


git commit

git commit

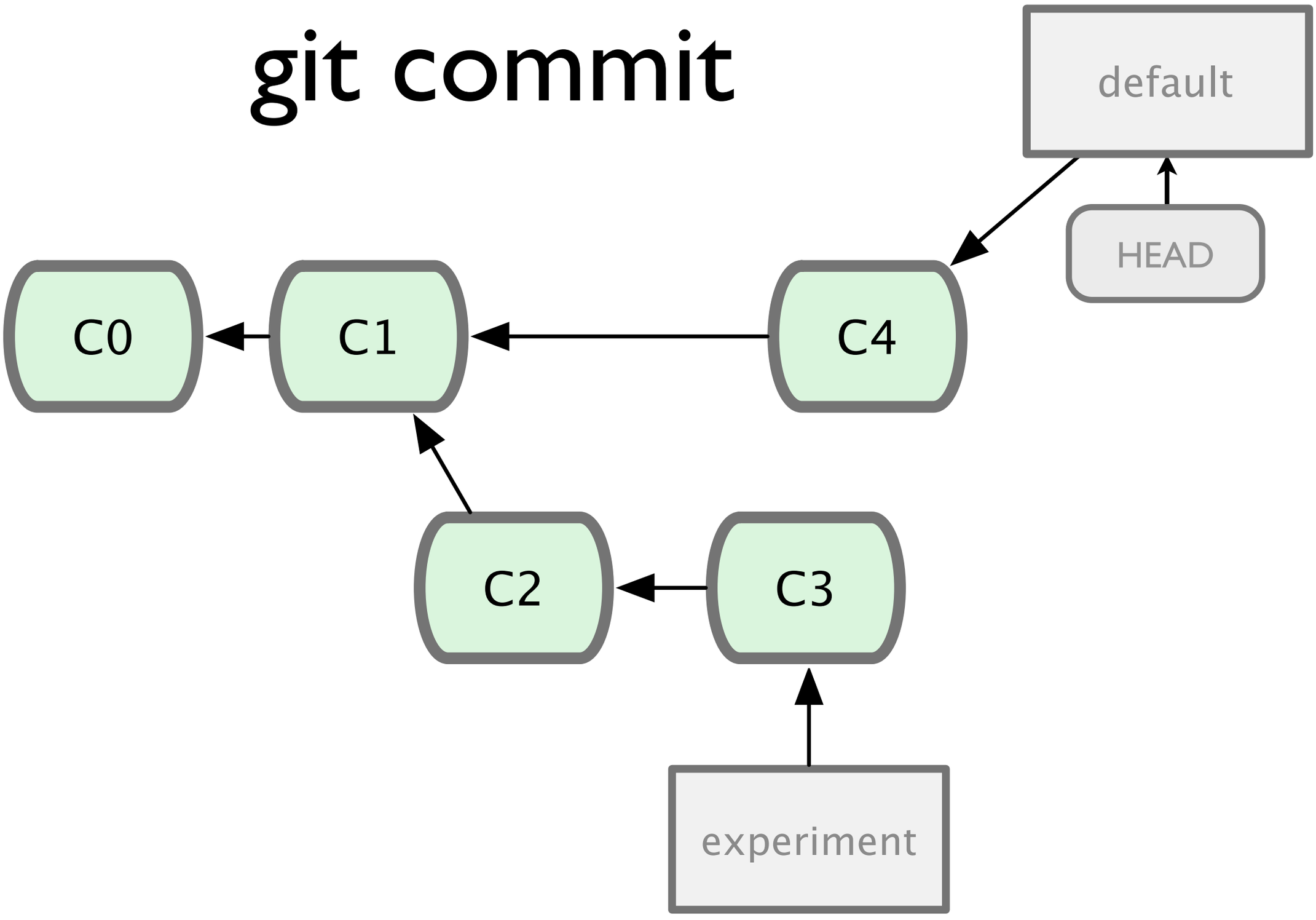


git checkout default

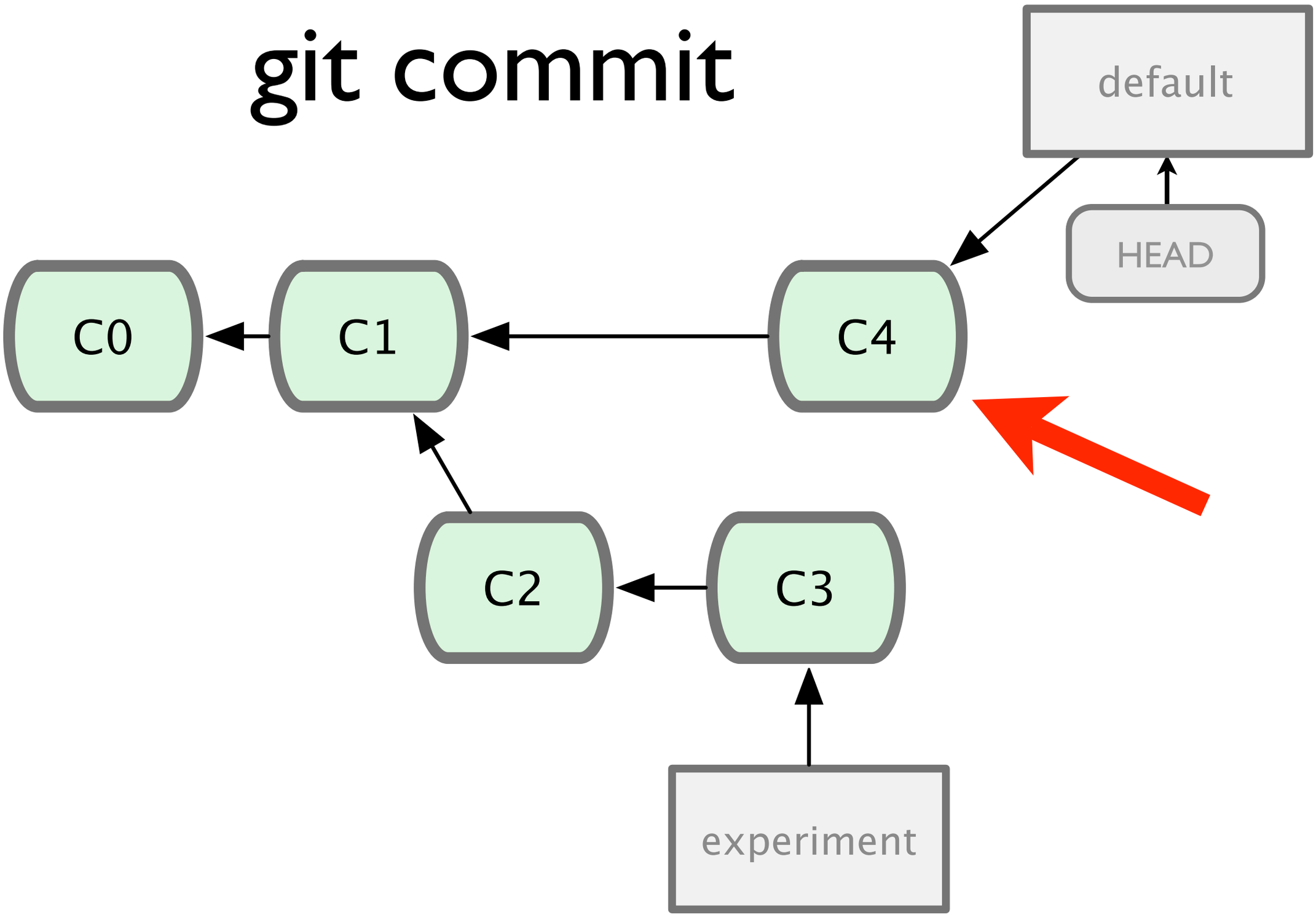


git checkout default

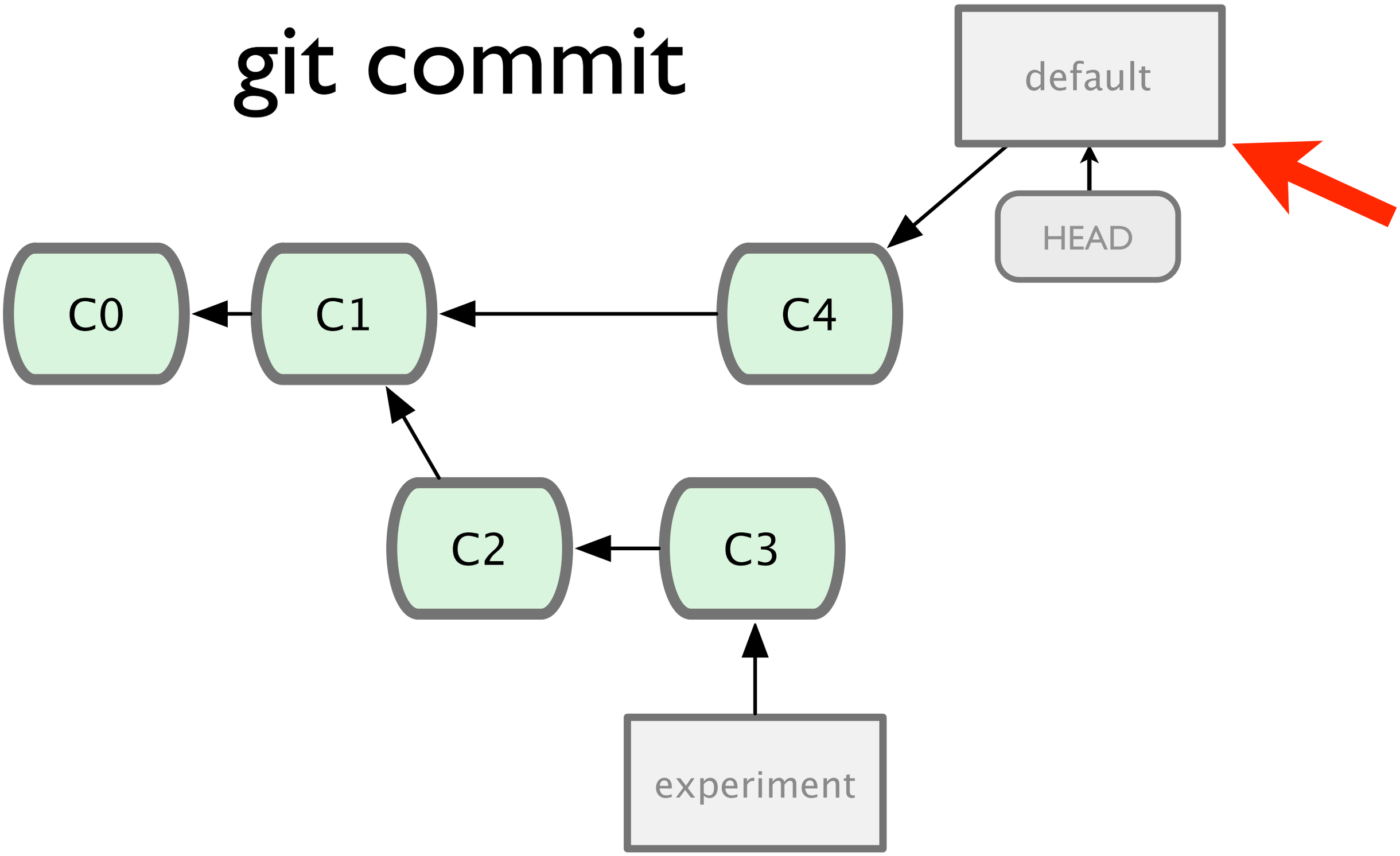
git commit

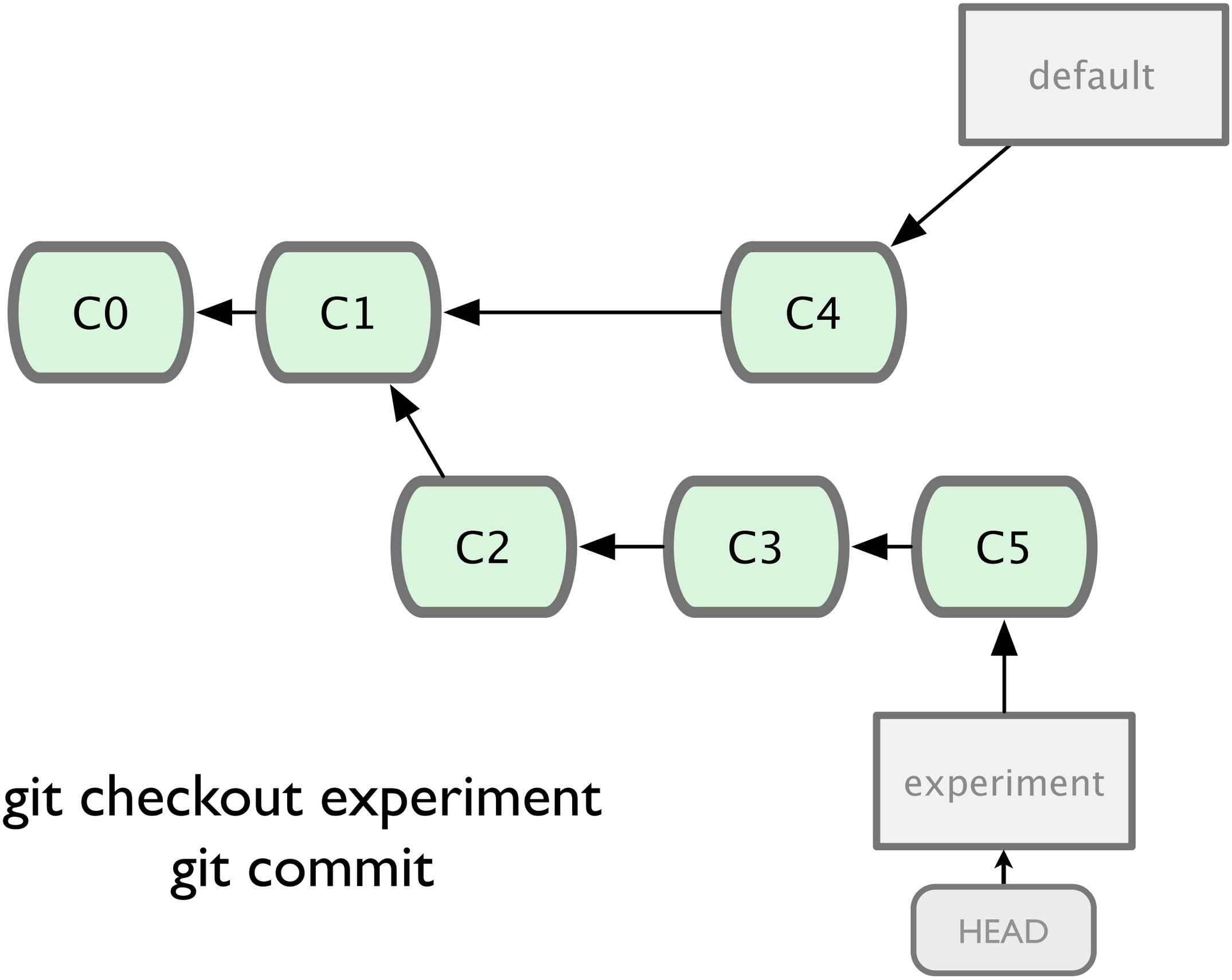


git commit



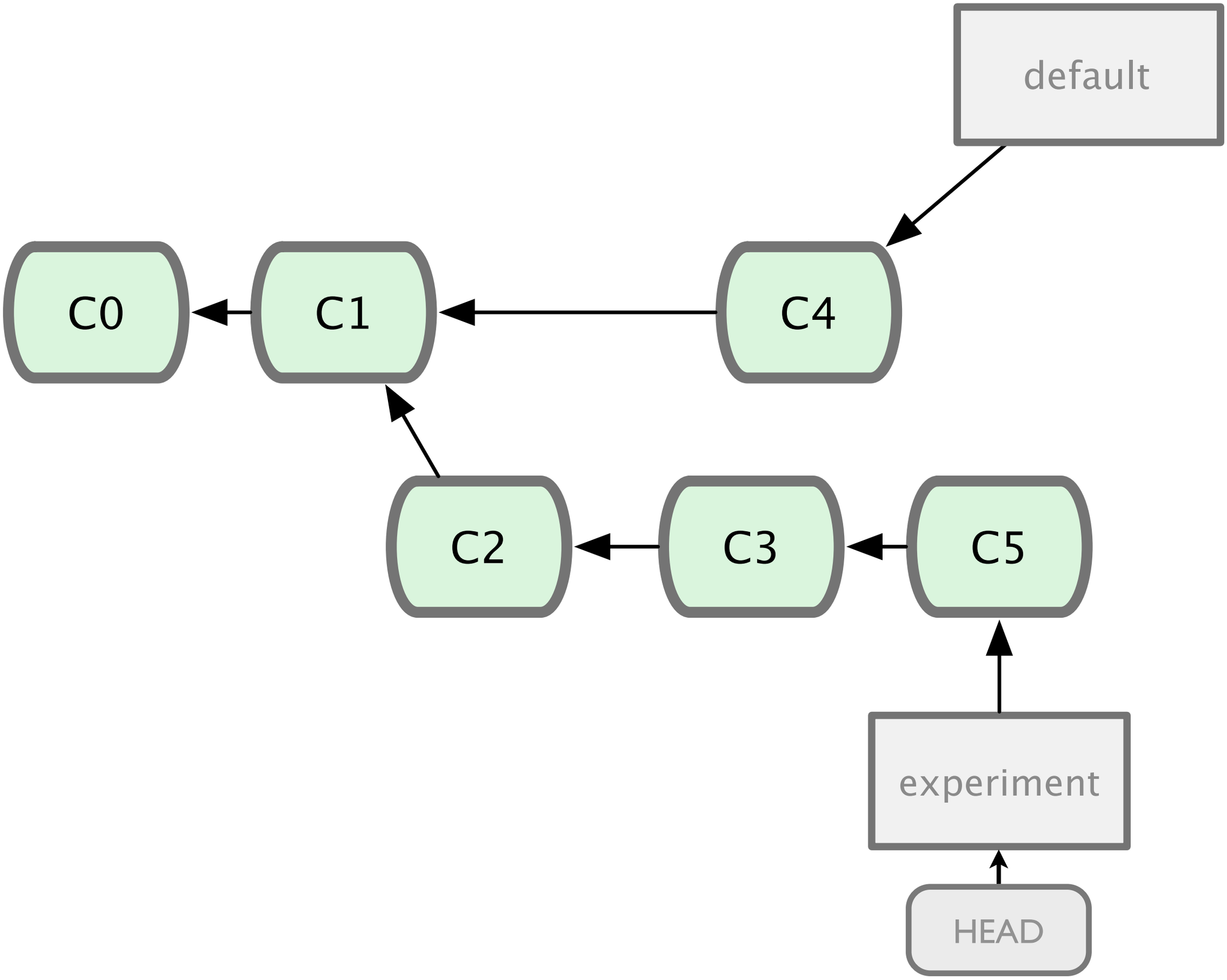
git commit

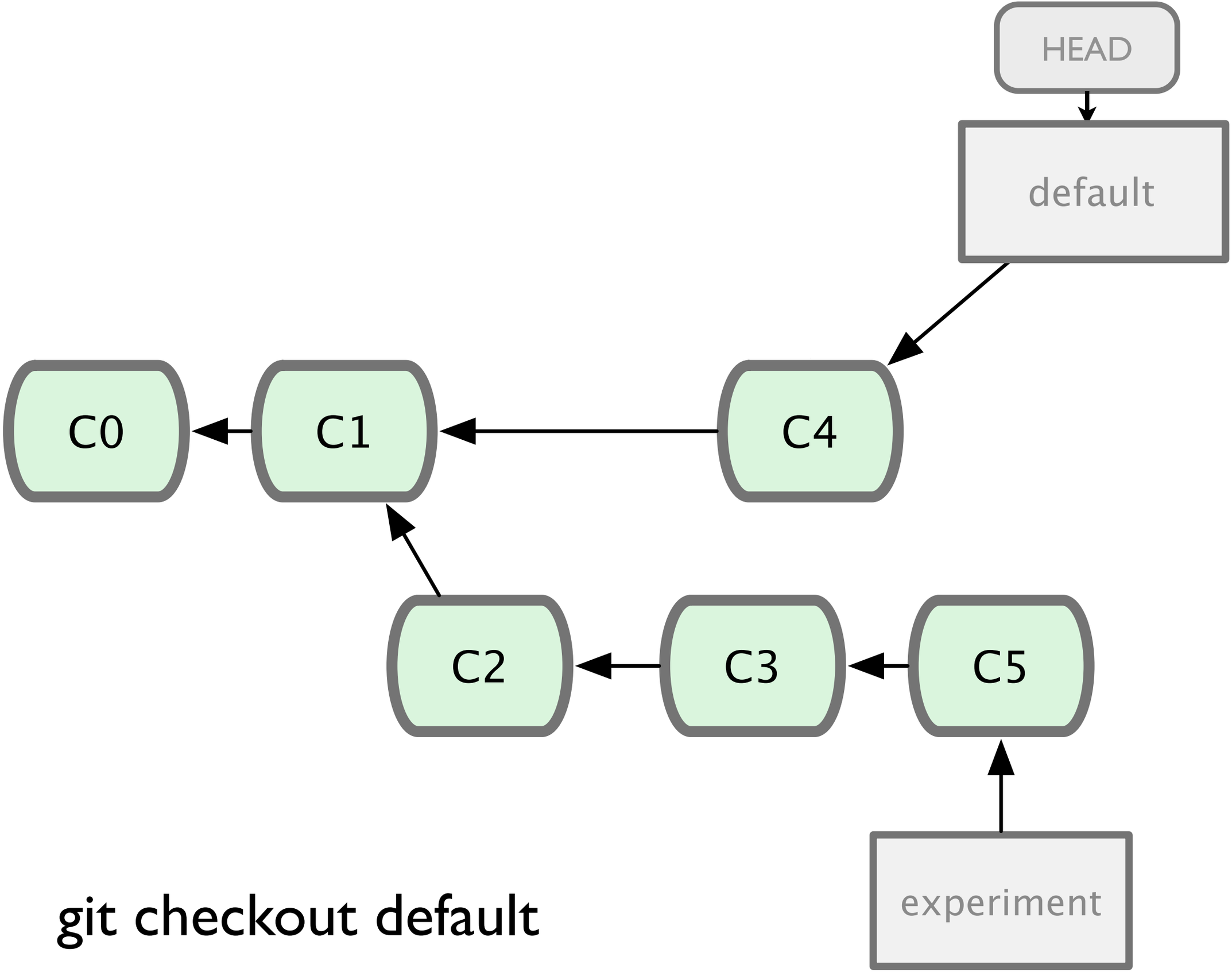




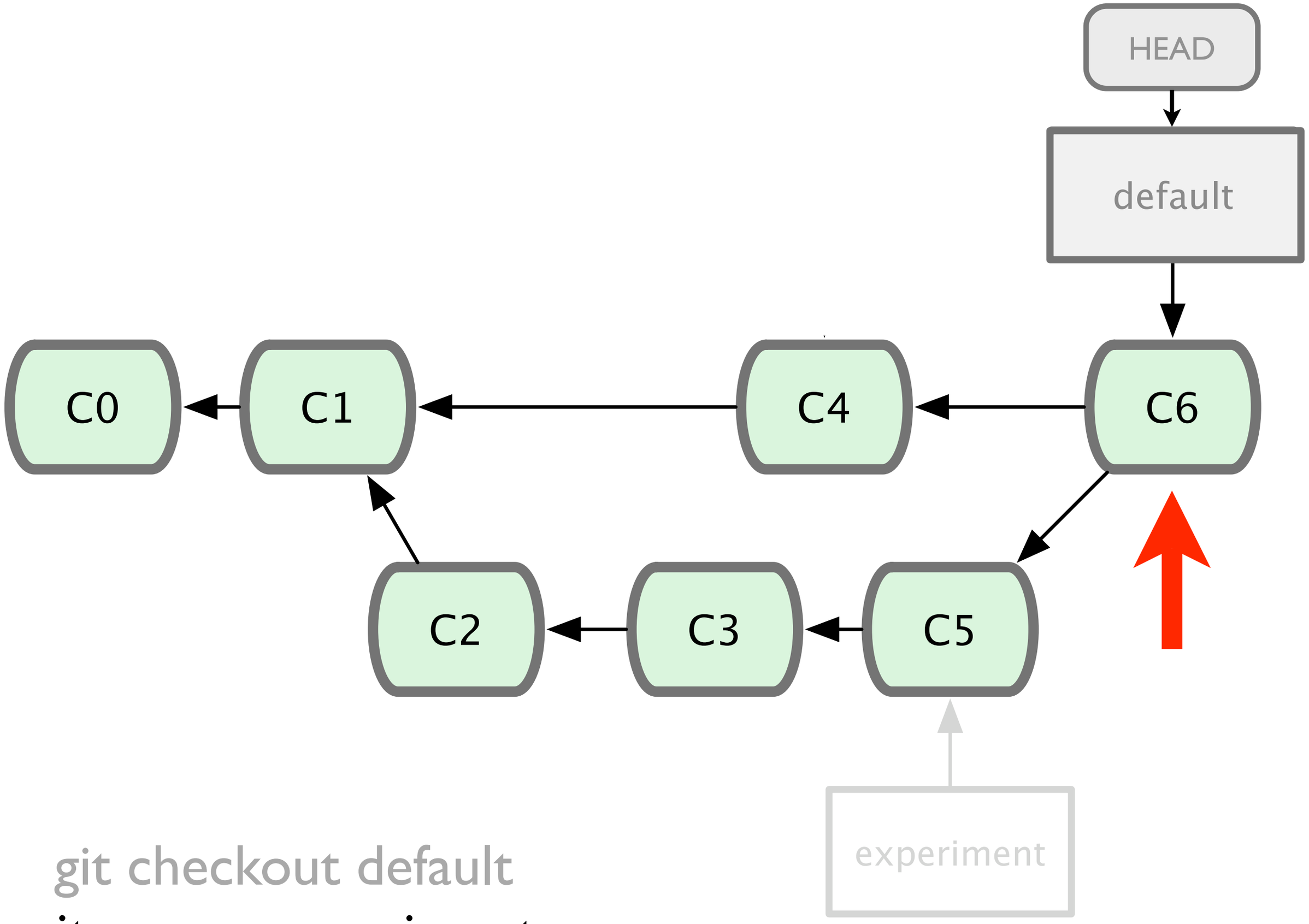
git checkout experiment
git commit

merging


default
C0
C1
C4
C2
C3
C5
experiment
HEAD

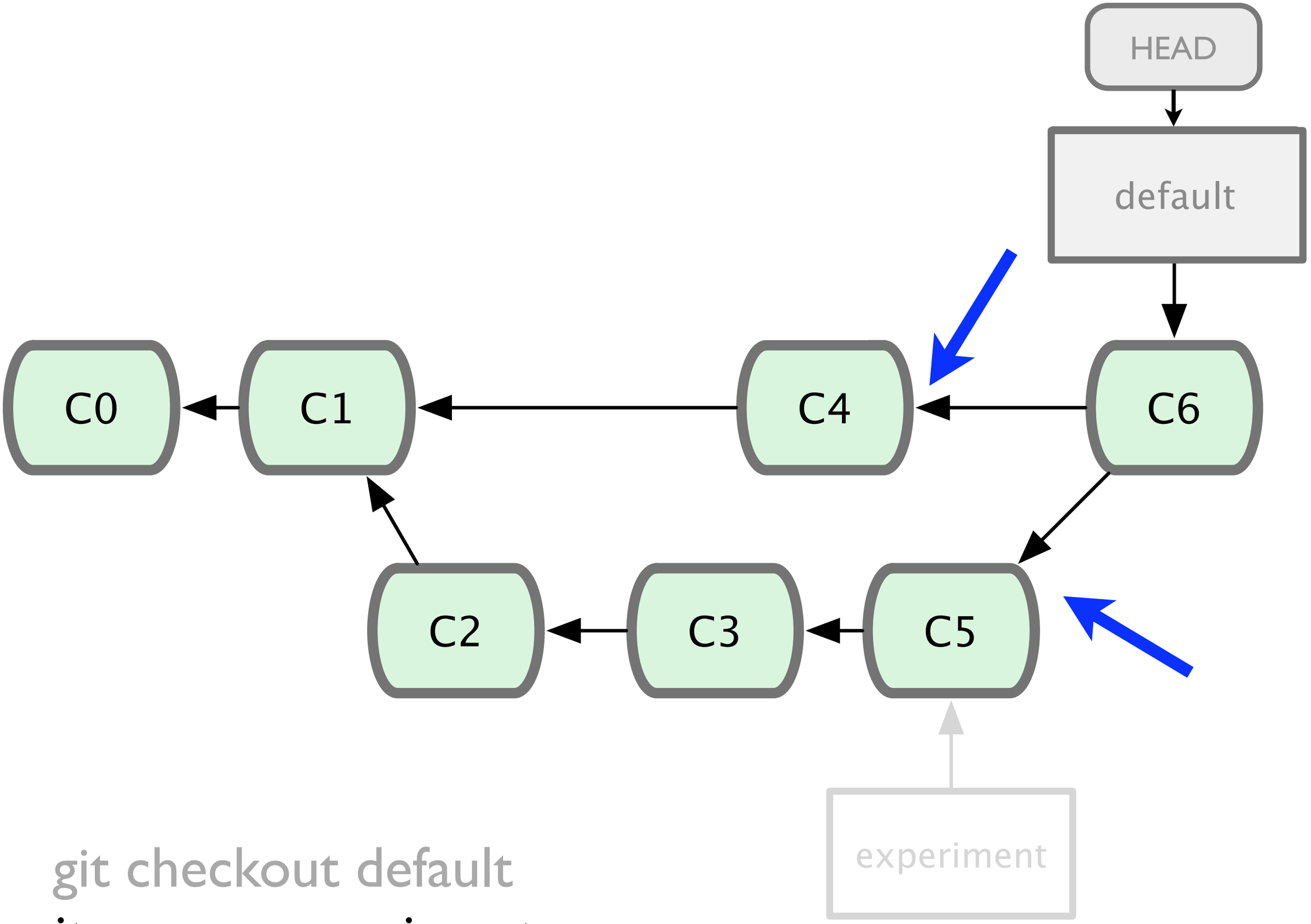


git checkout default



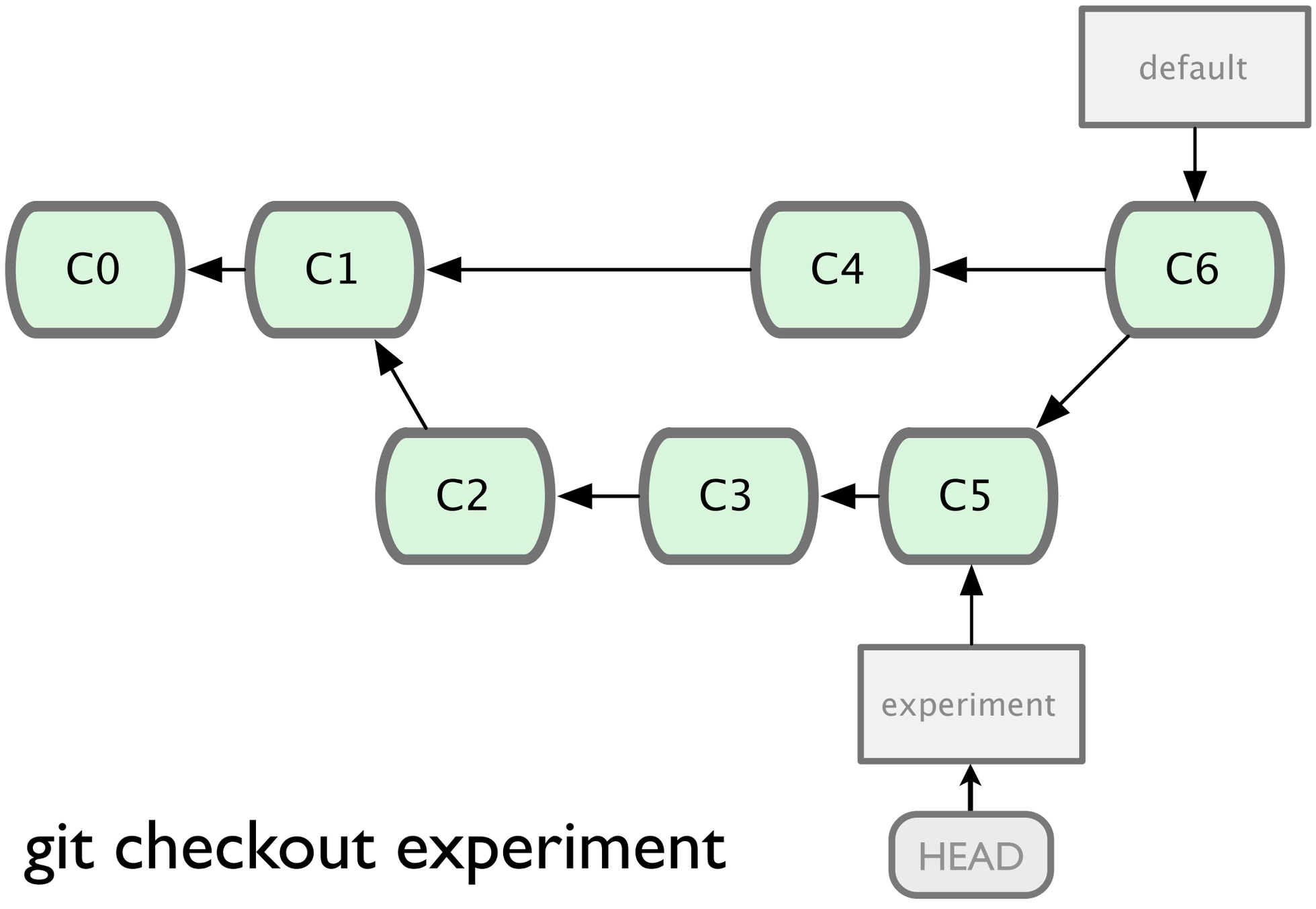
git checkout default

git merge experiment

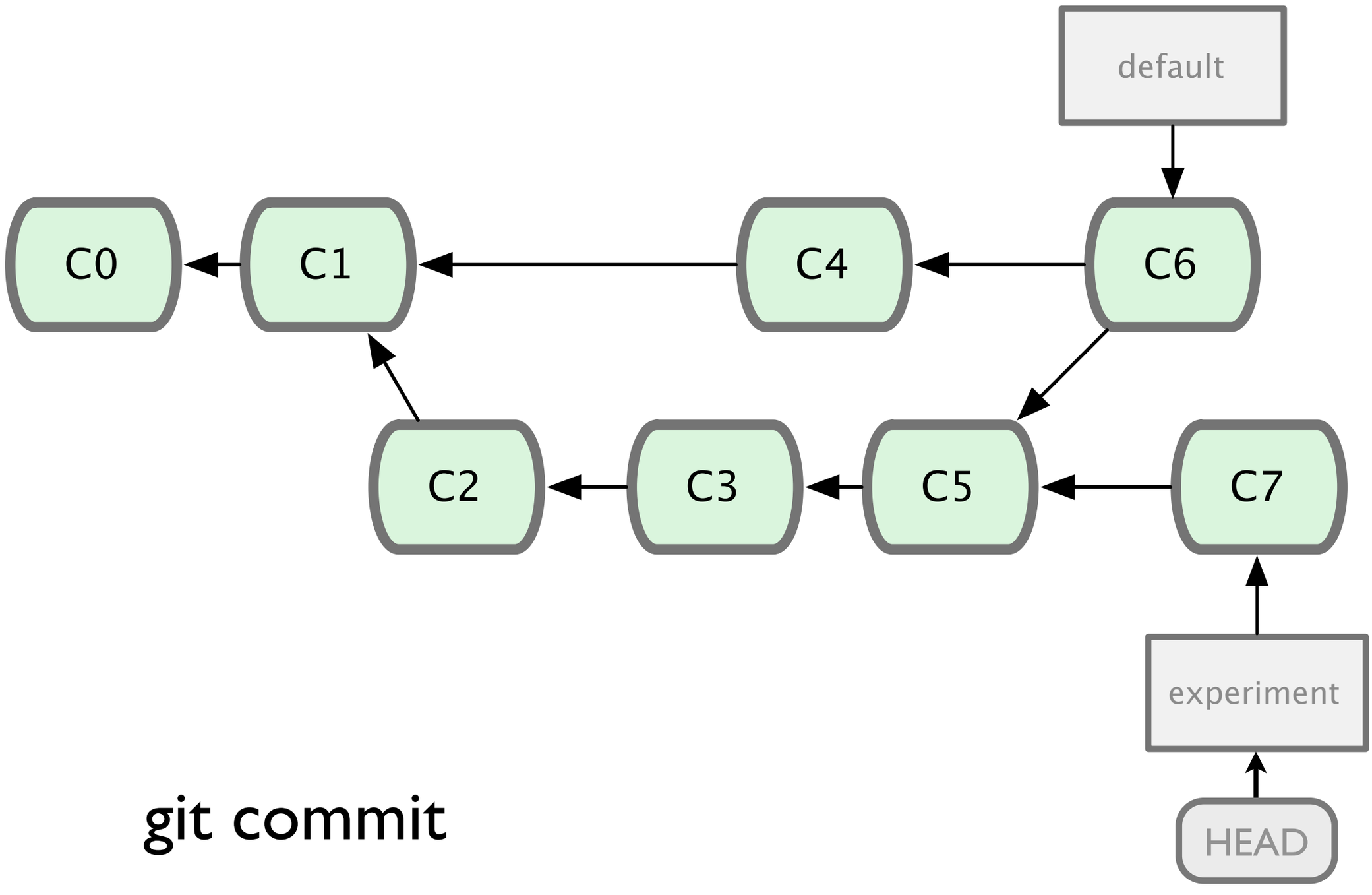


git checkout default

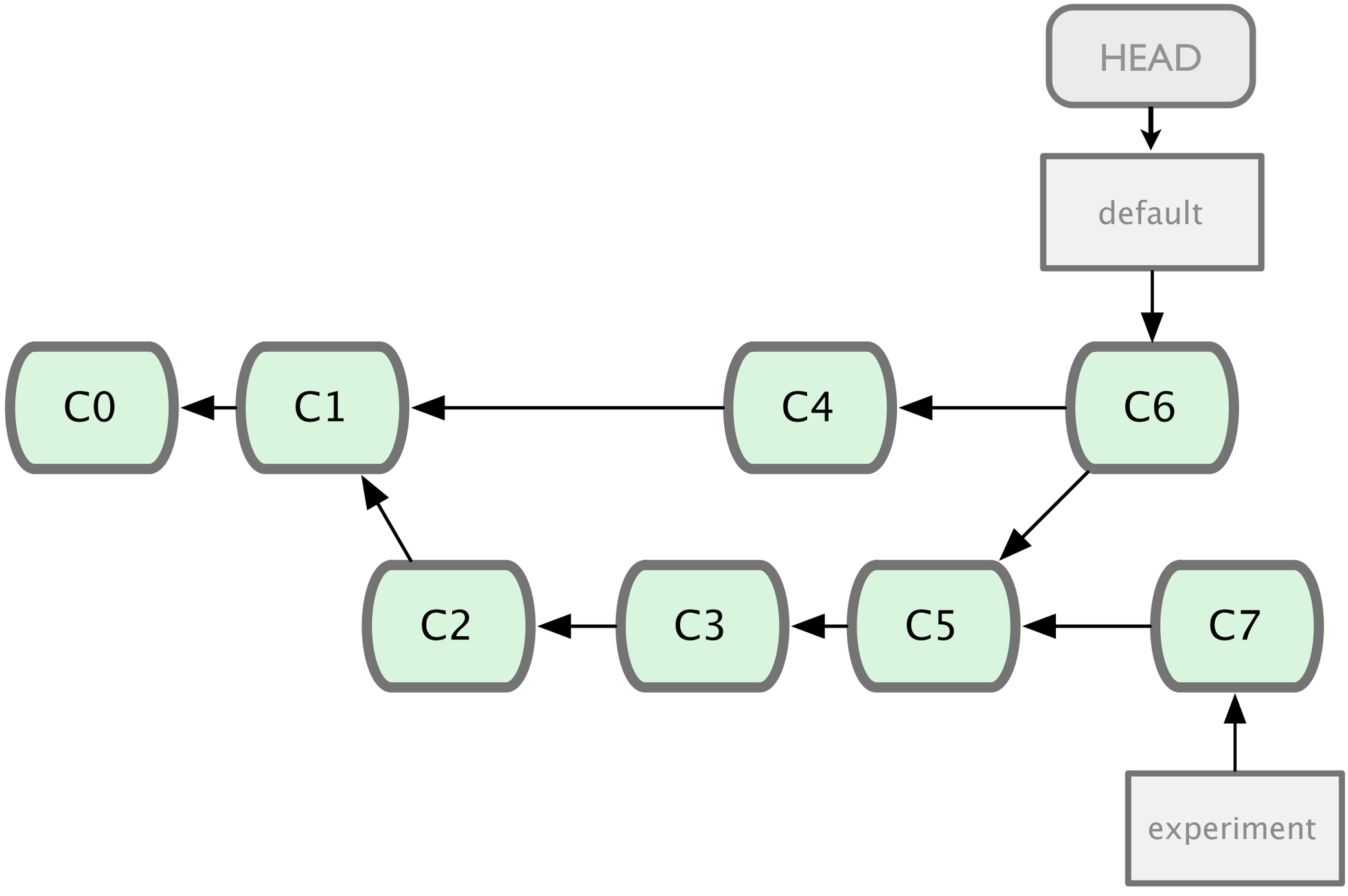
git merge experiment



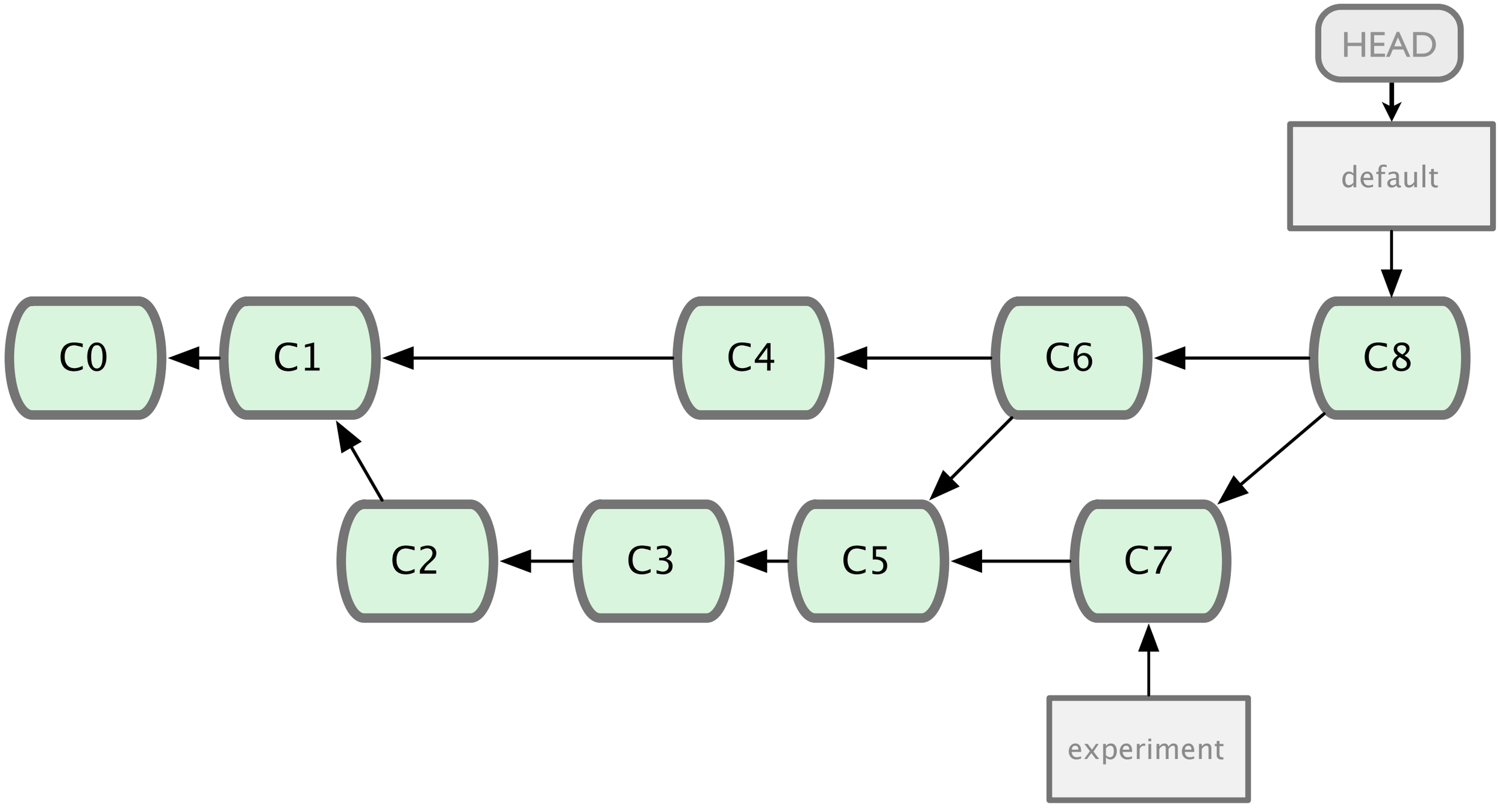
git checkout experiment



git commit



git checkout default



git merge experiment