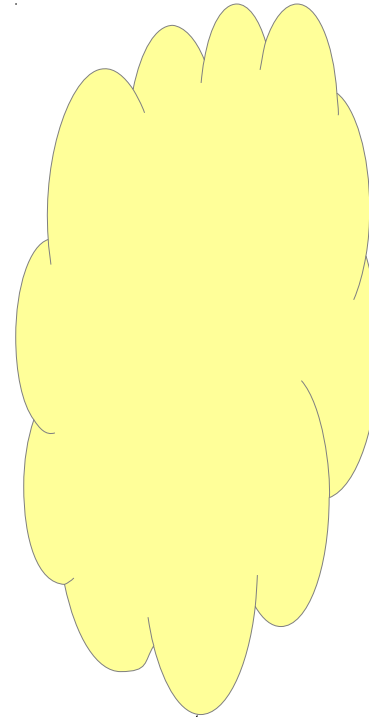


Some typical Git workflows

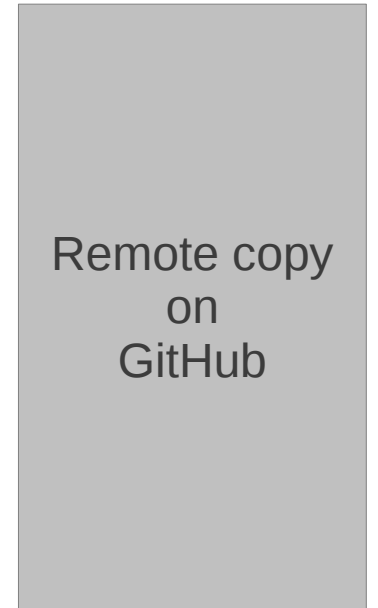
Programming in Java
Birkbeck, Univ. of London
(cc-by)



the programmer



the Internet

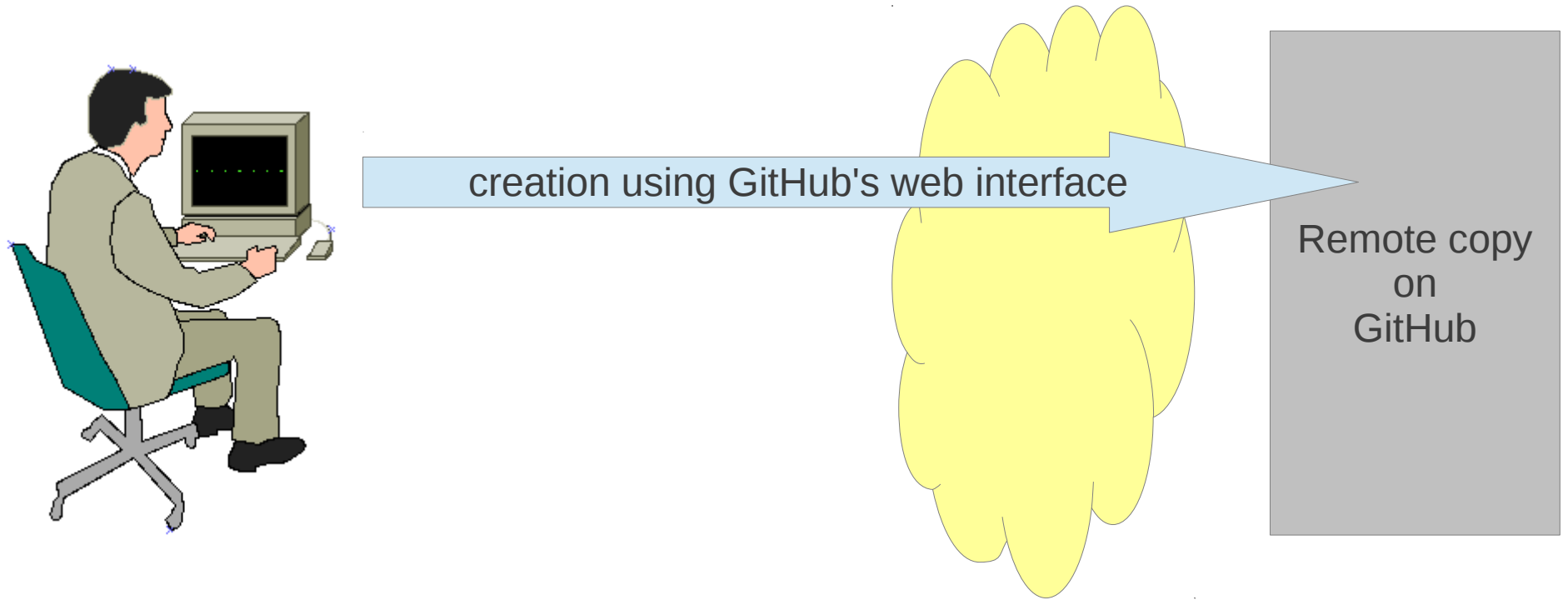


GitHub (or another similar online service)

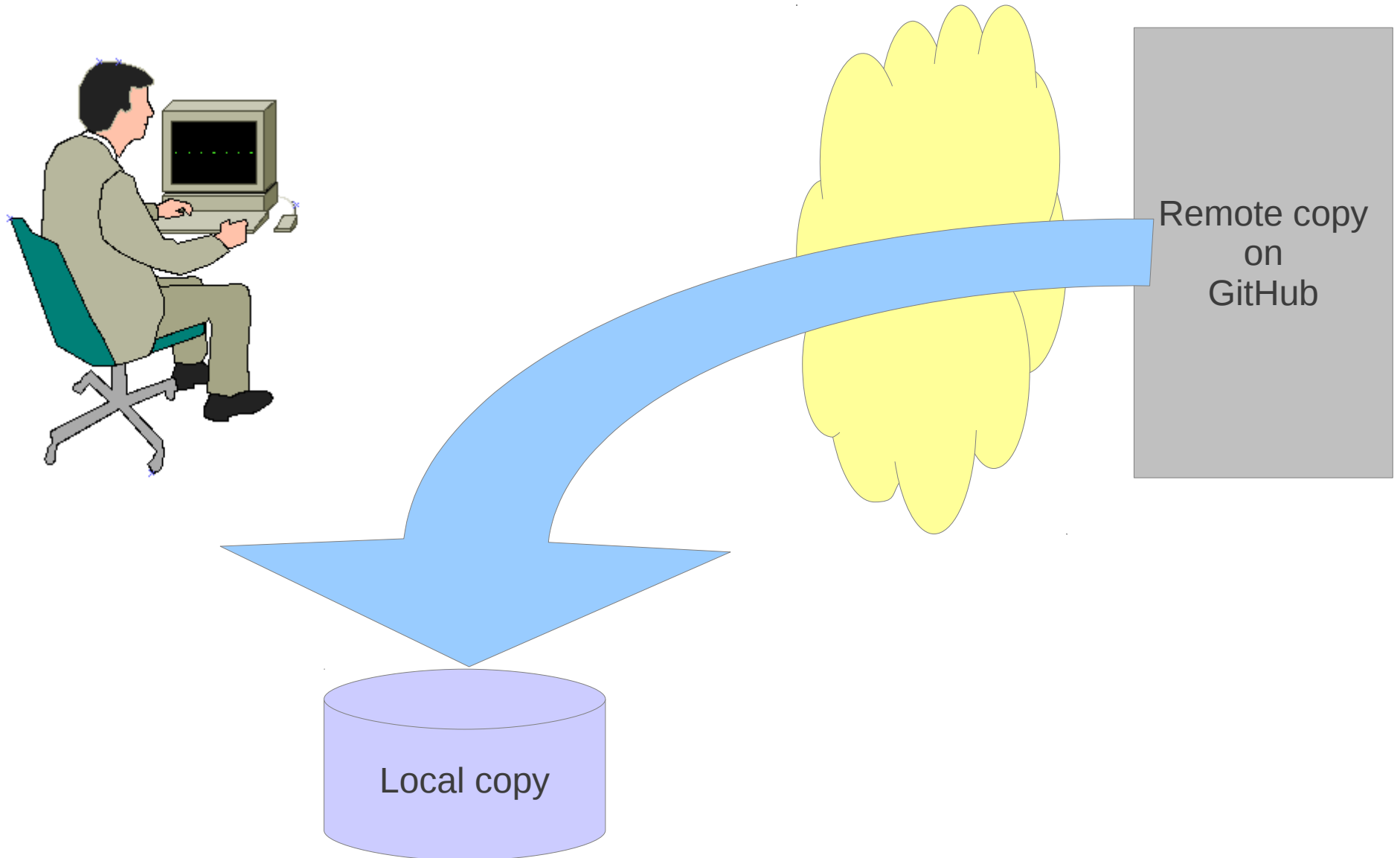
Case 1:

Starting a new project

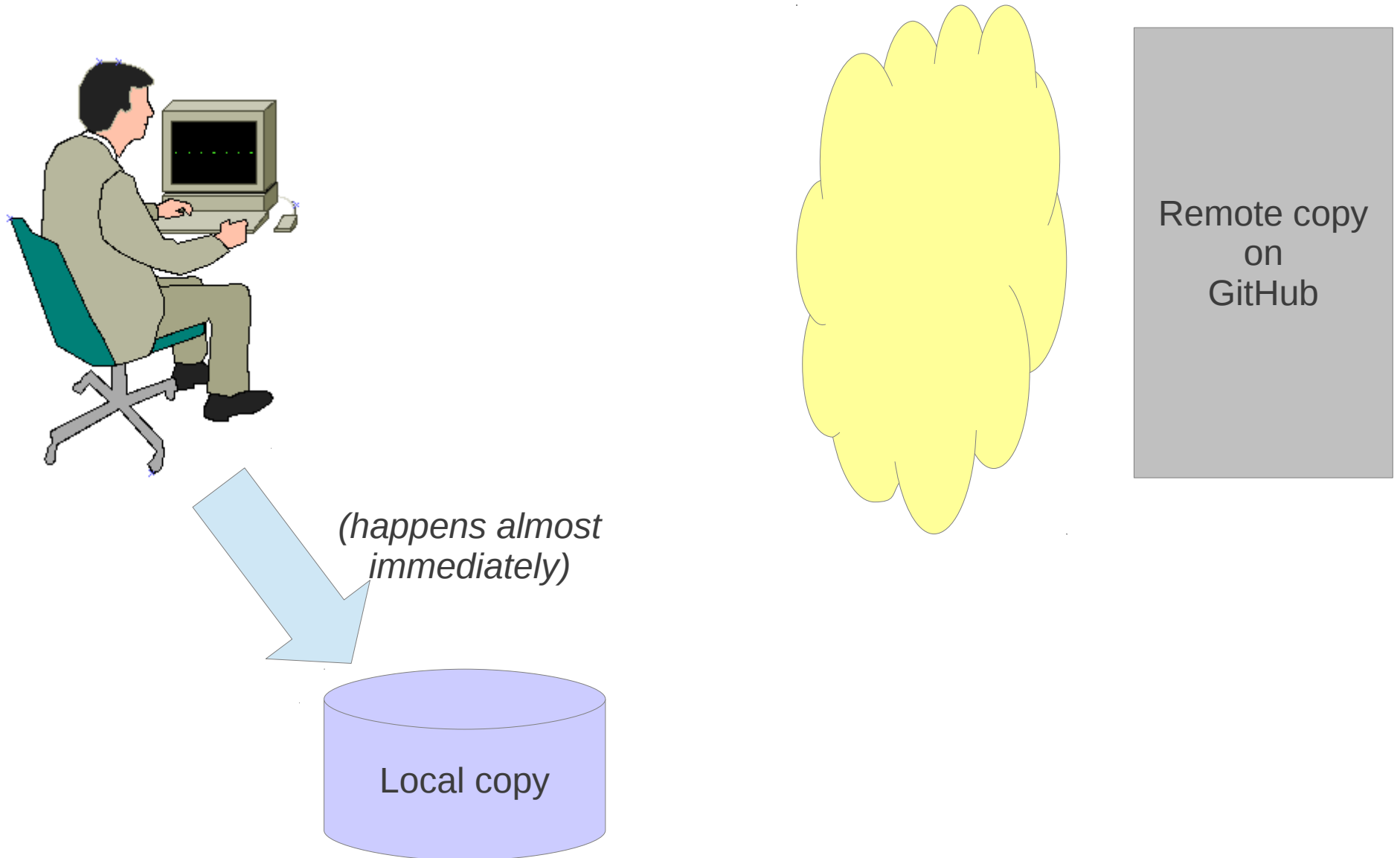
Creation of a new repository



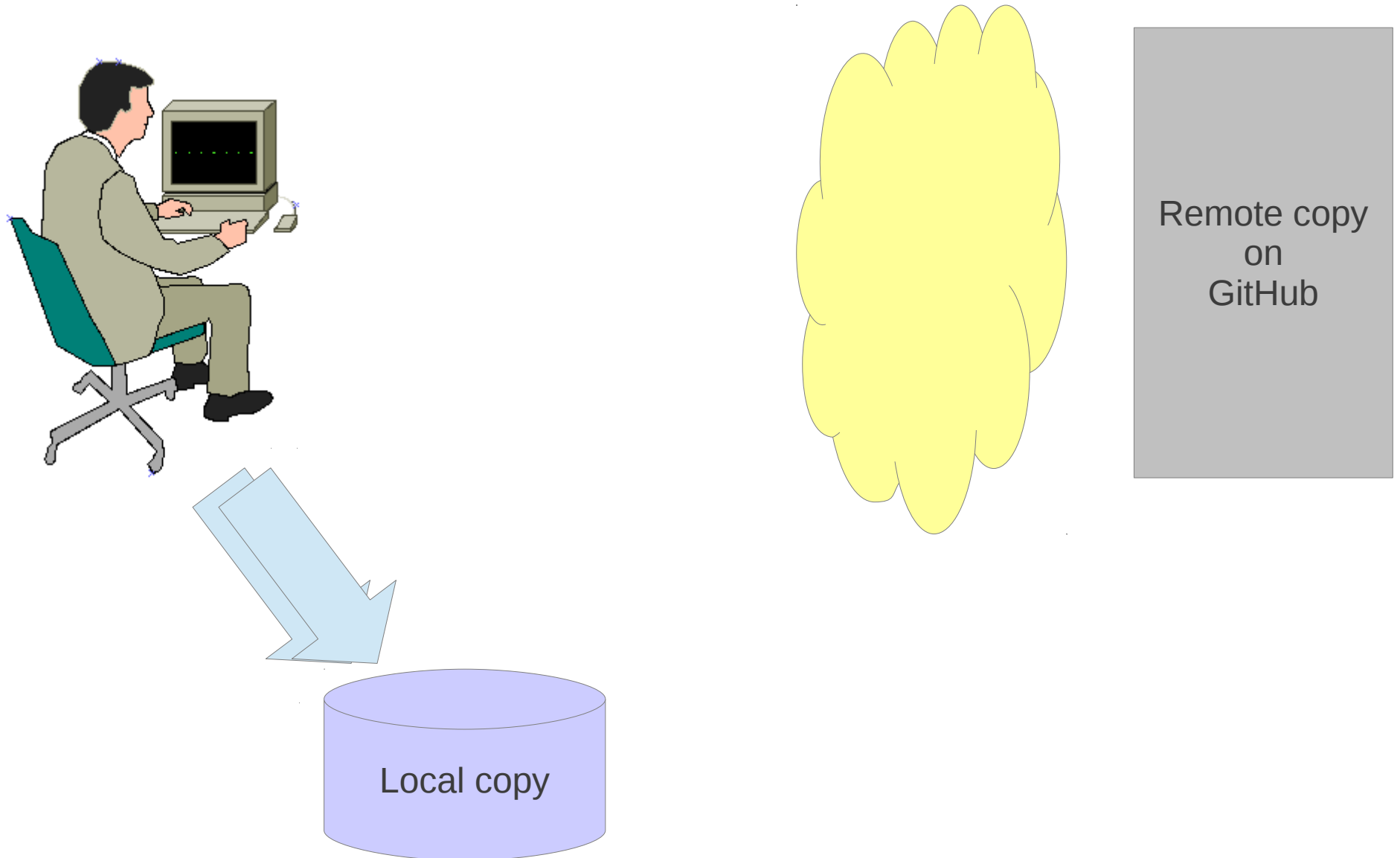
Cloning to a local copy



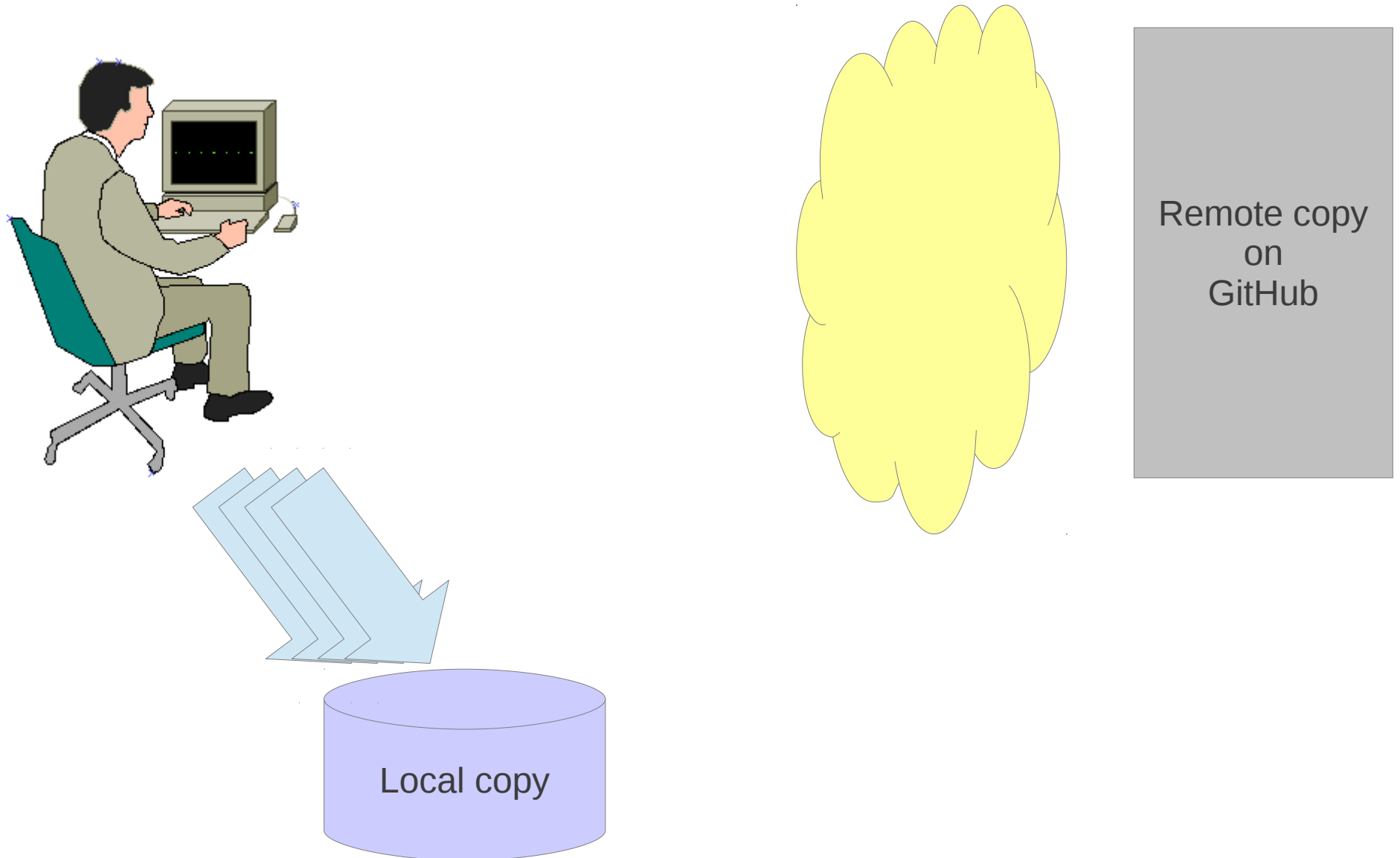
Commit changes to local copy



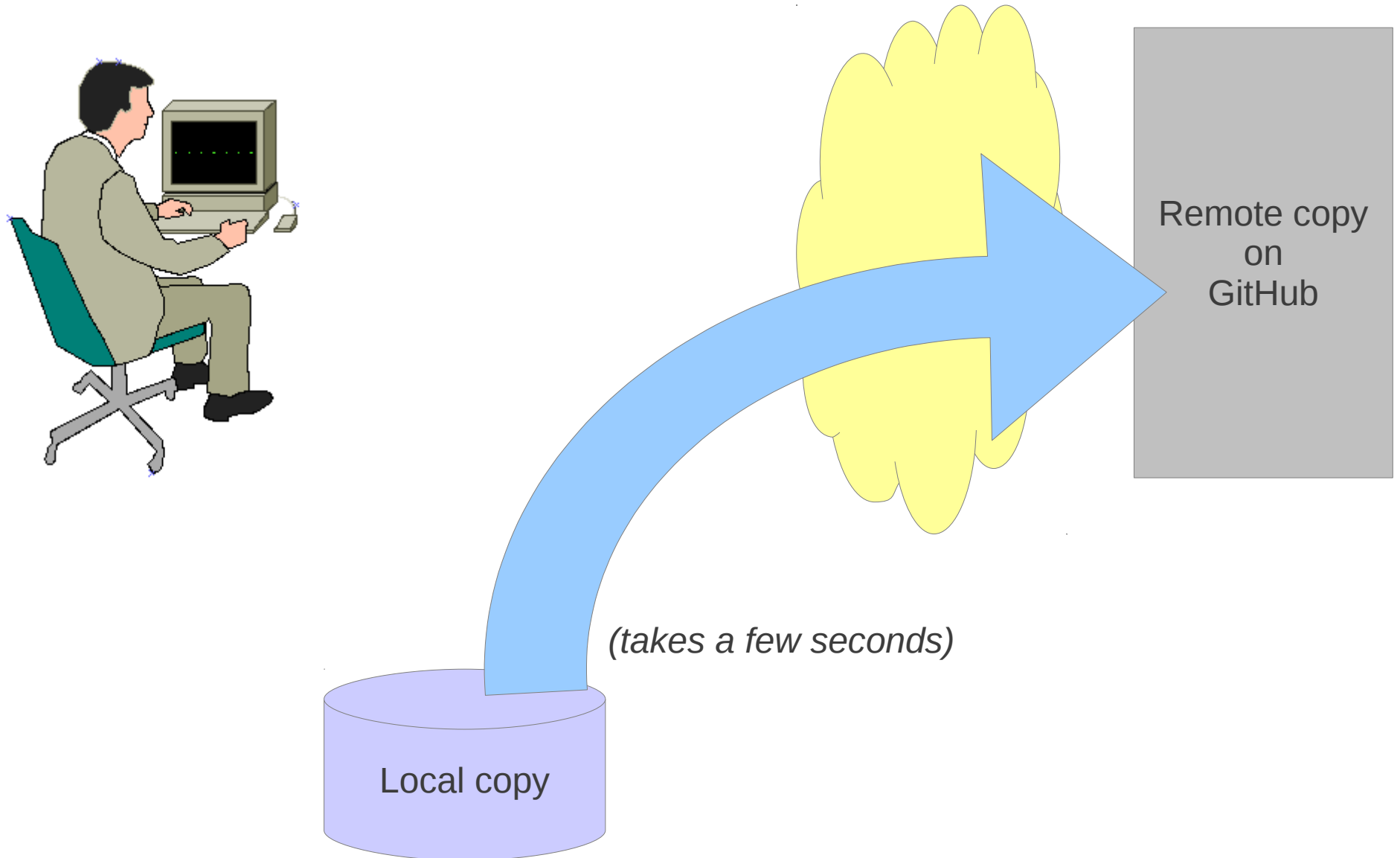
Commit changes to local copy



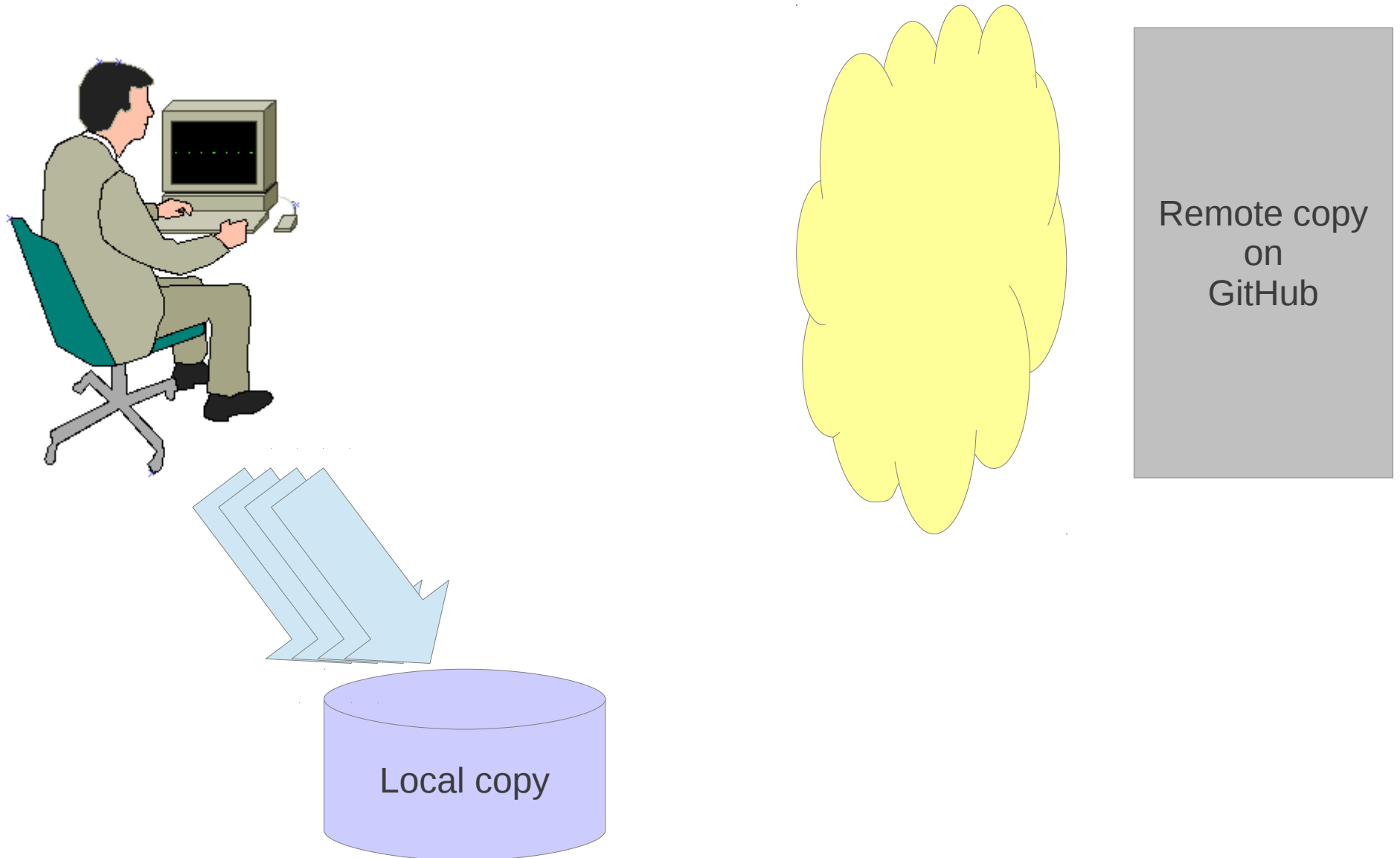
Commit changes to local copy



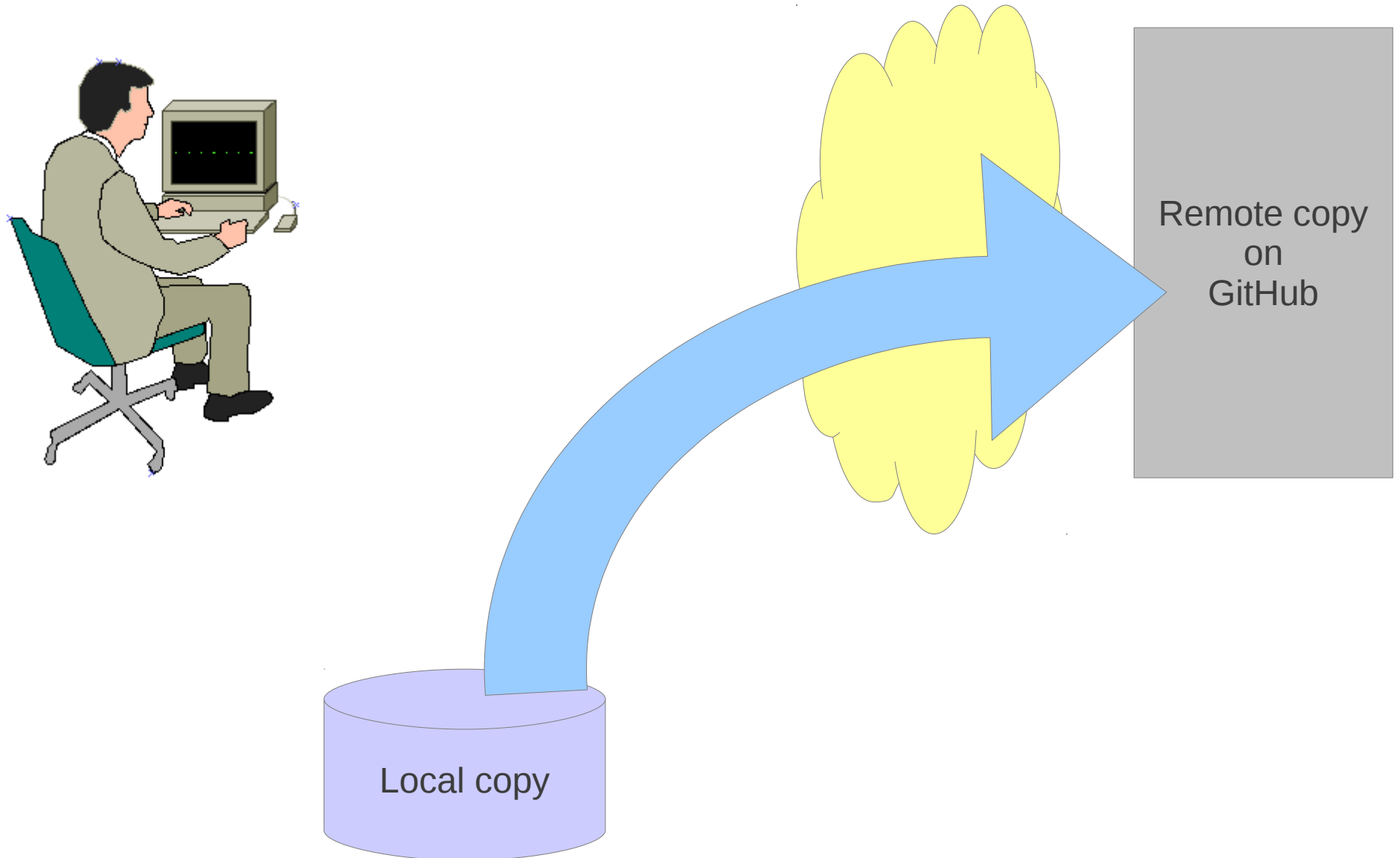
Push changes to remote copy



Commit more changes

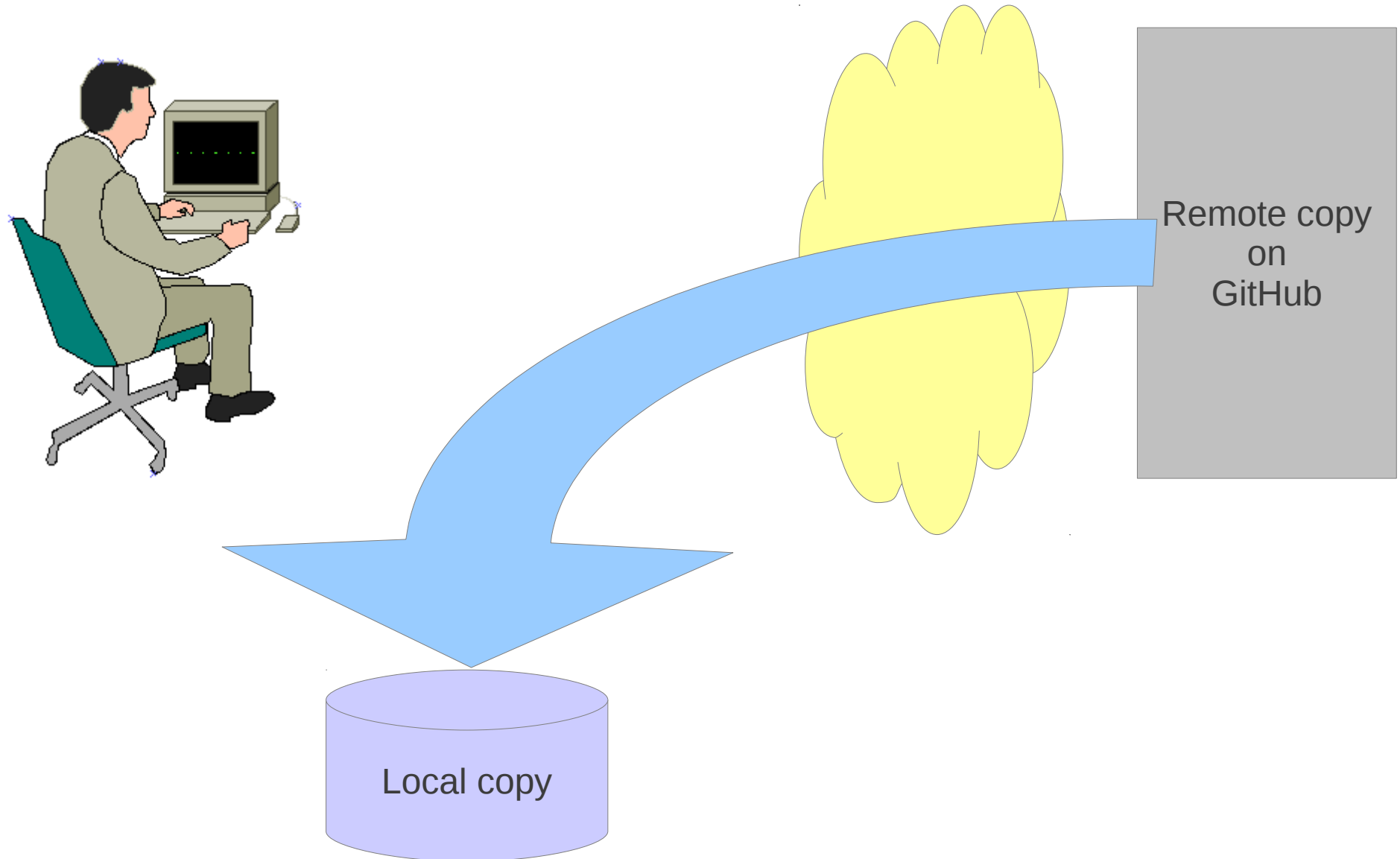


Push new changes

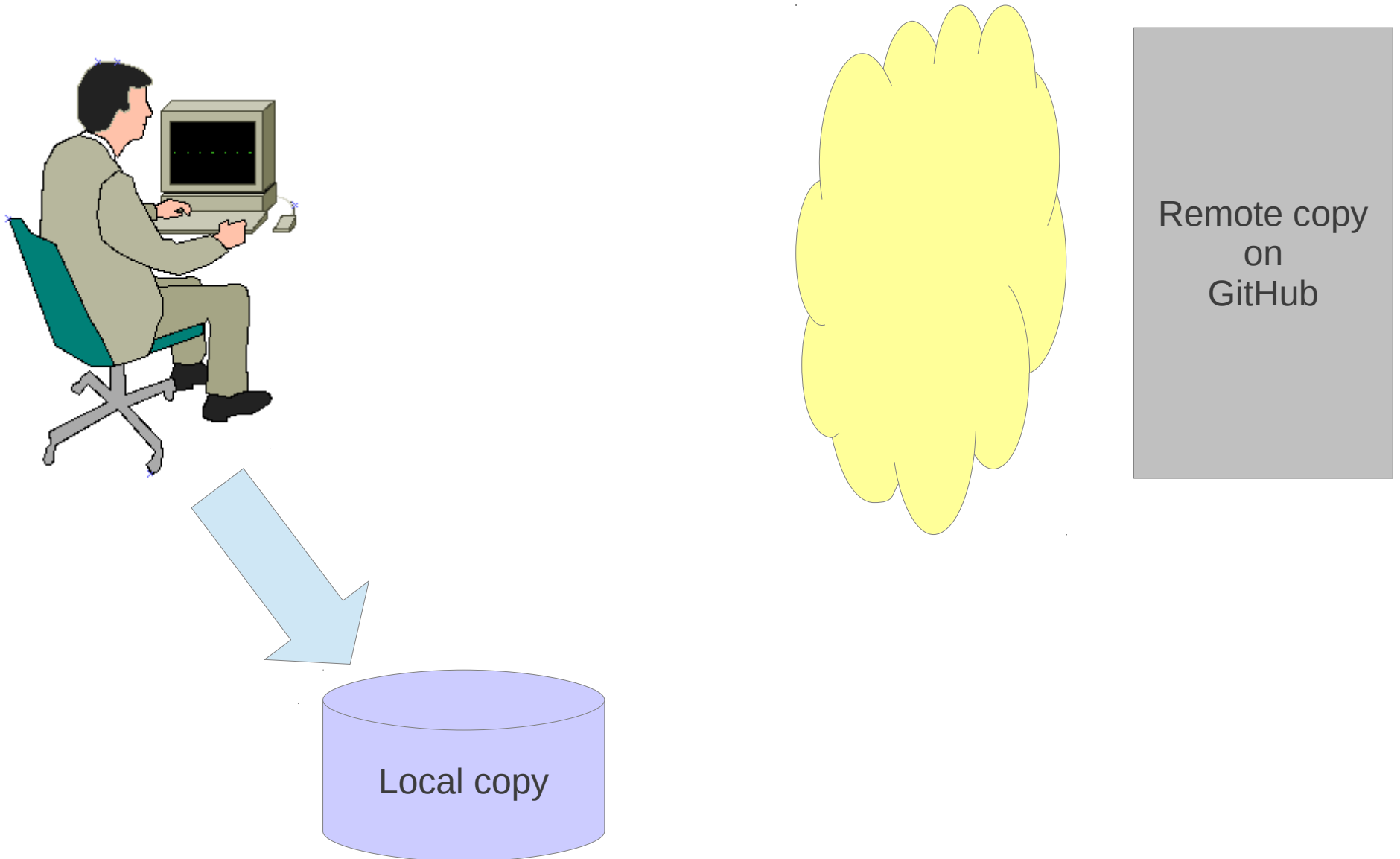


Case 2:
Contributing to an existing project
where you can push changes
(because it is yours)

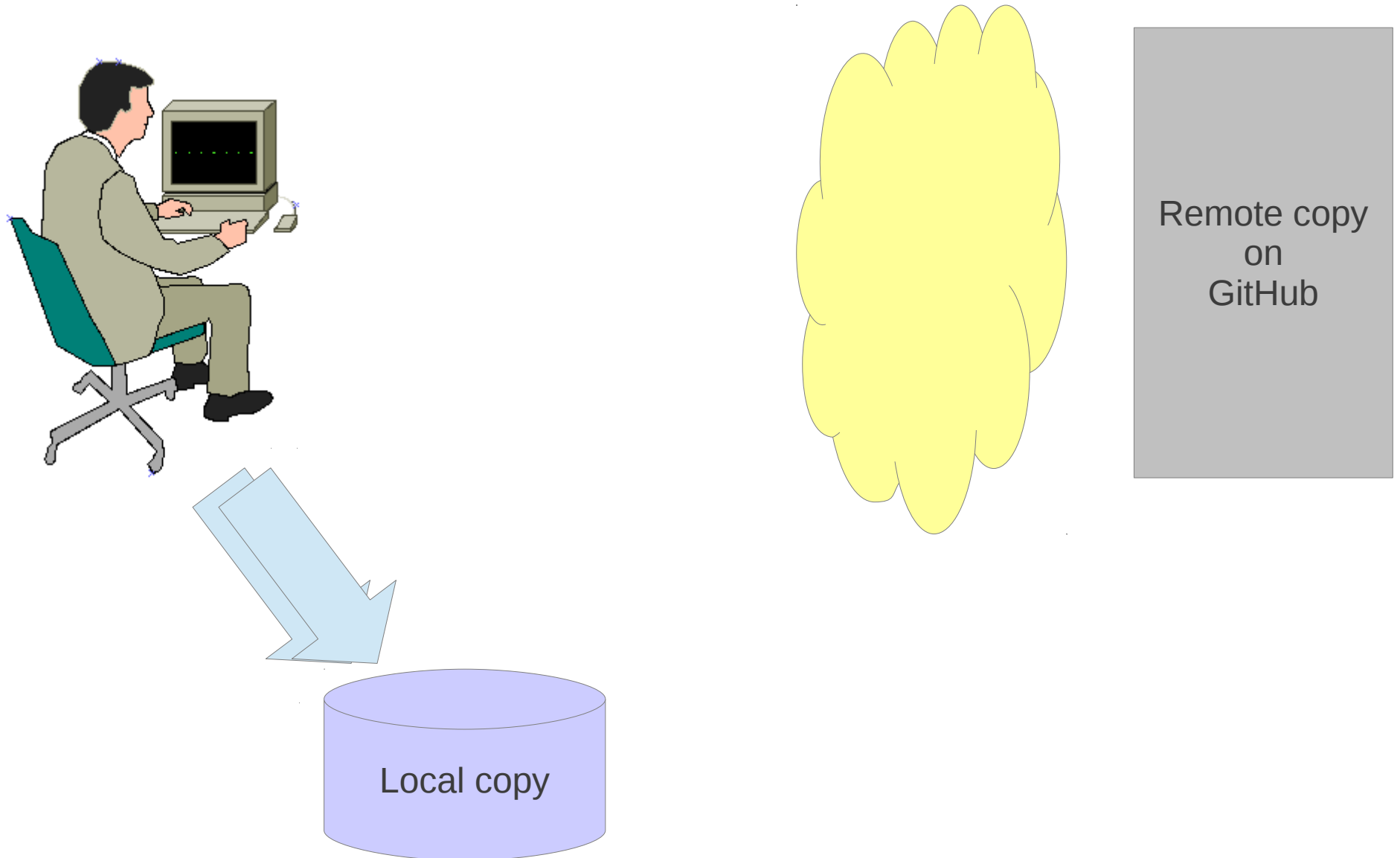
Cloning repository to a local copy



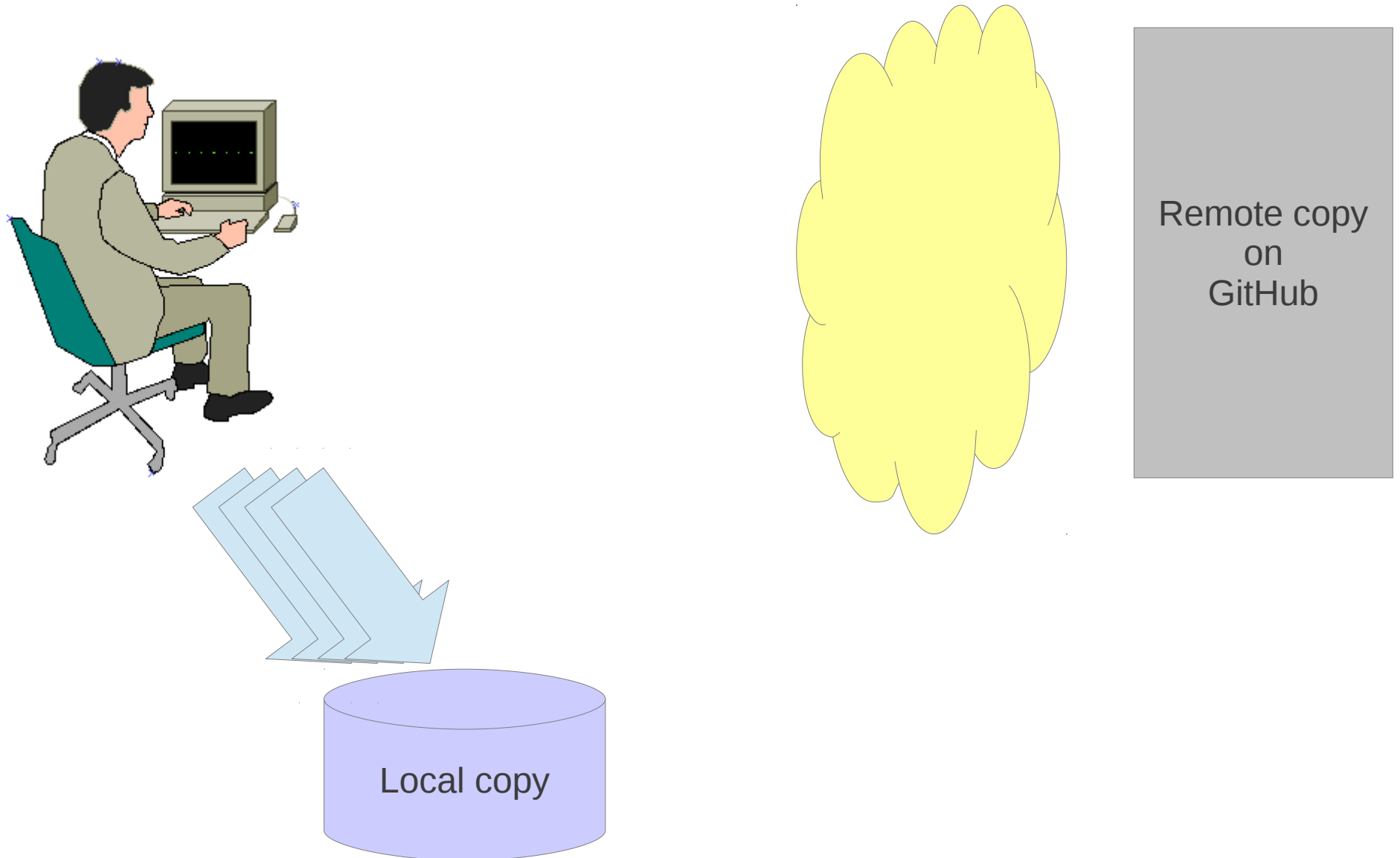
Commit changes to local copy



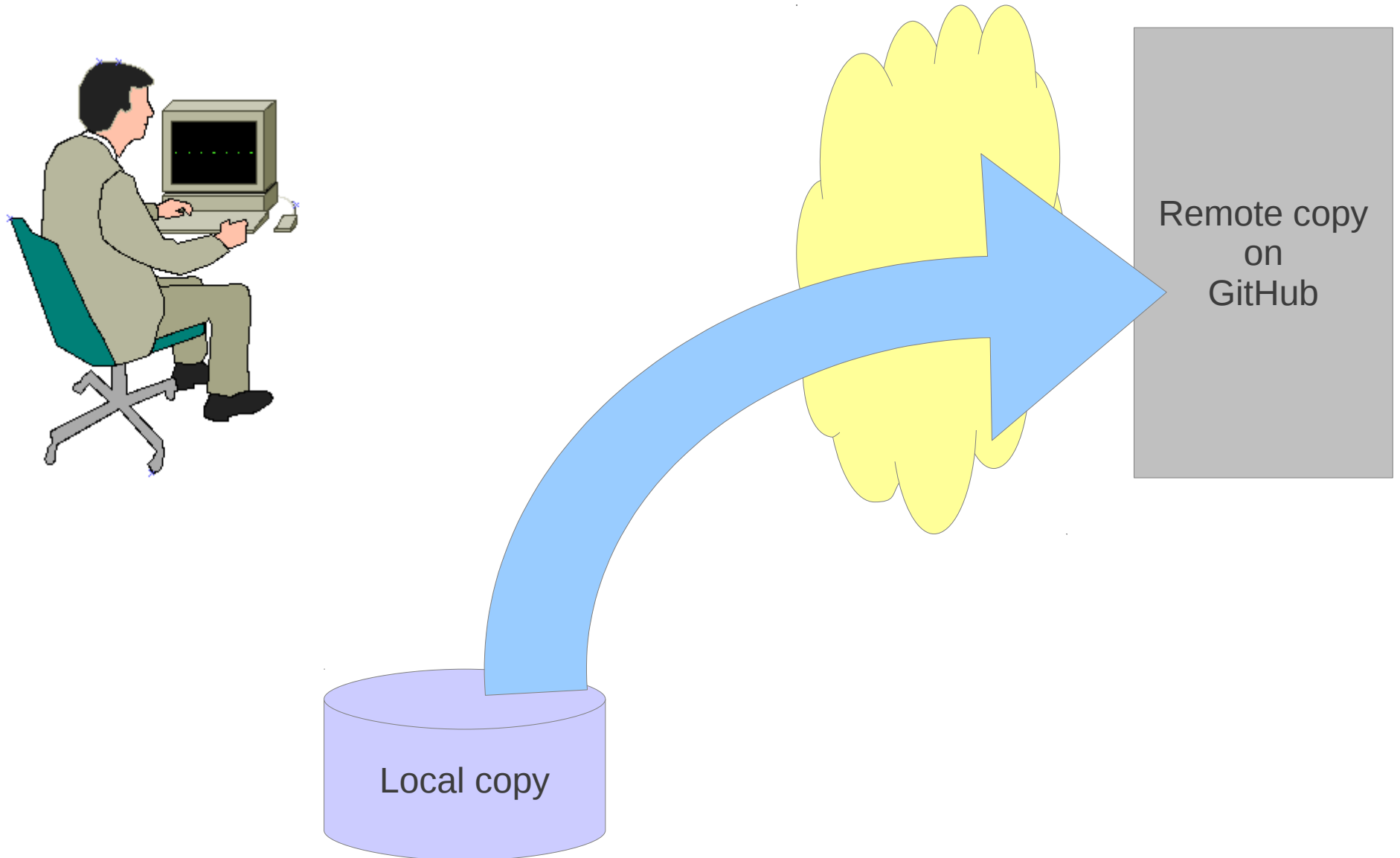
Commit changes to local copy



Commit changes to local copy

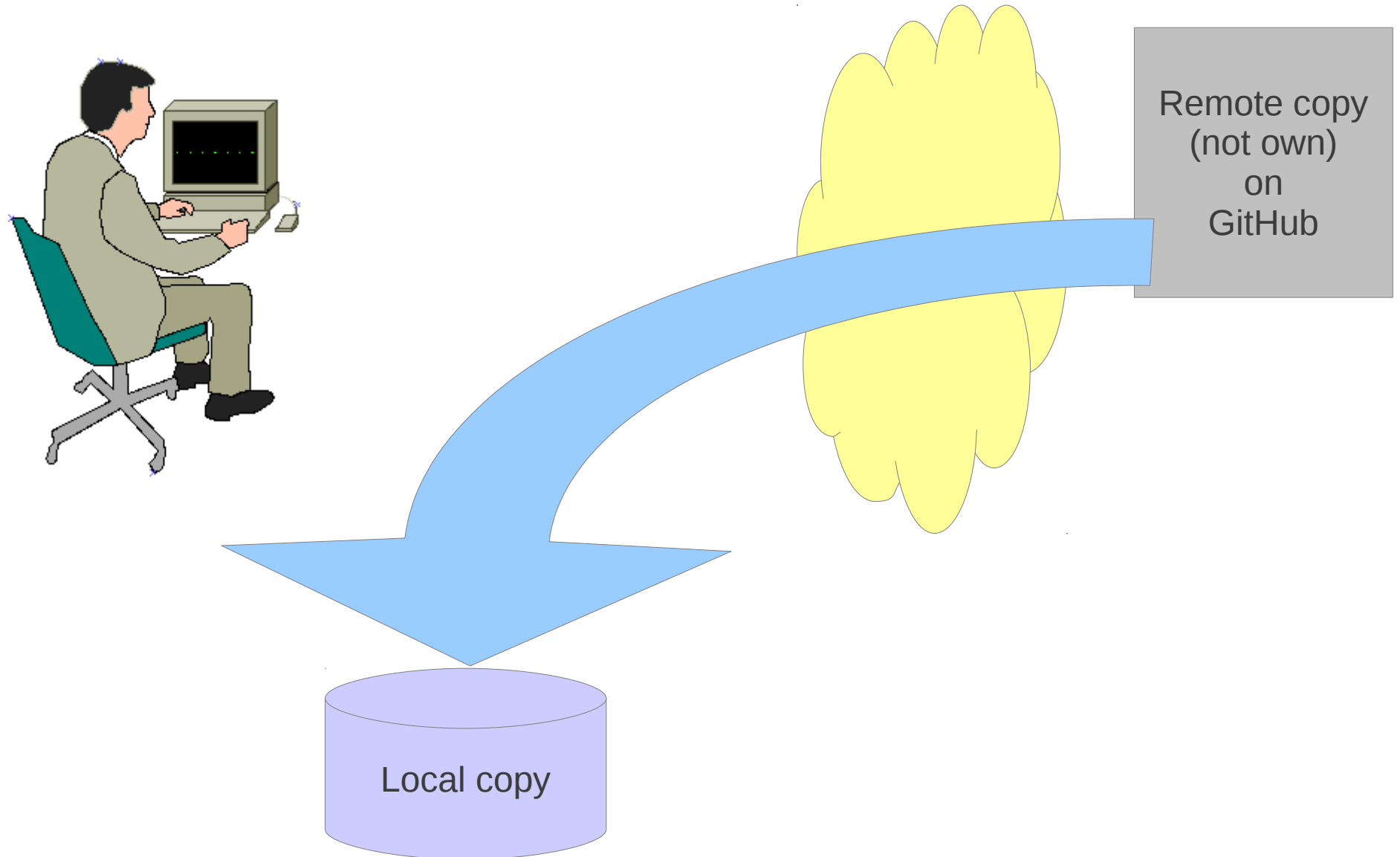


Push changes to remote copy

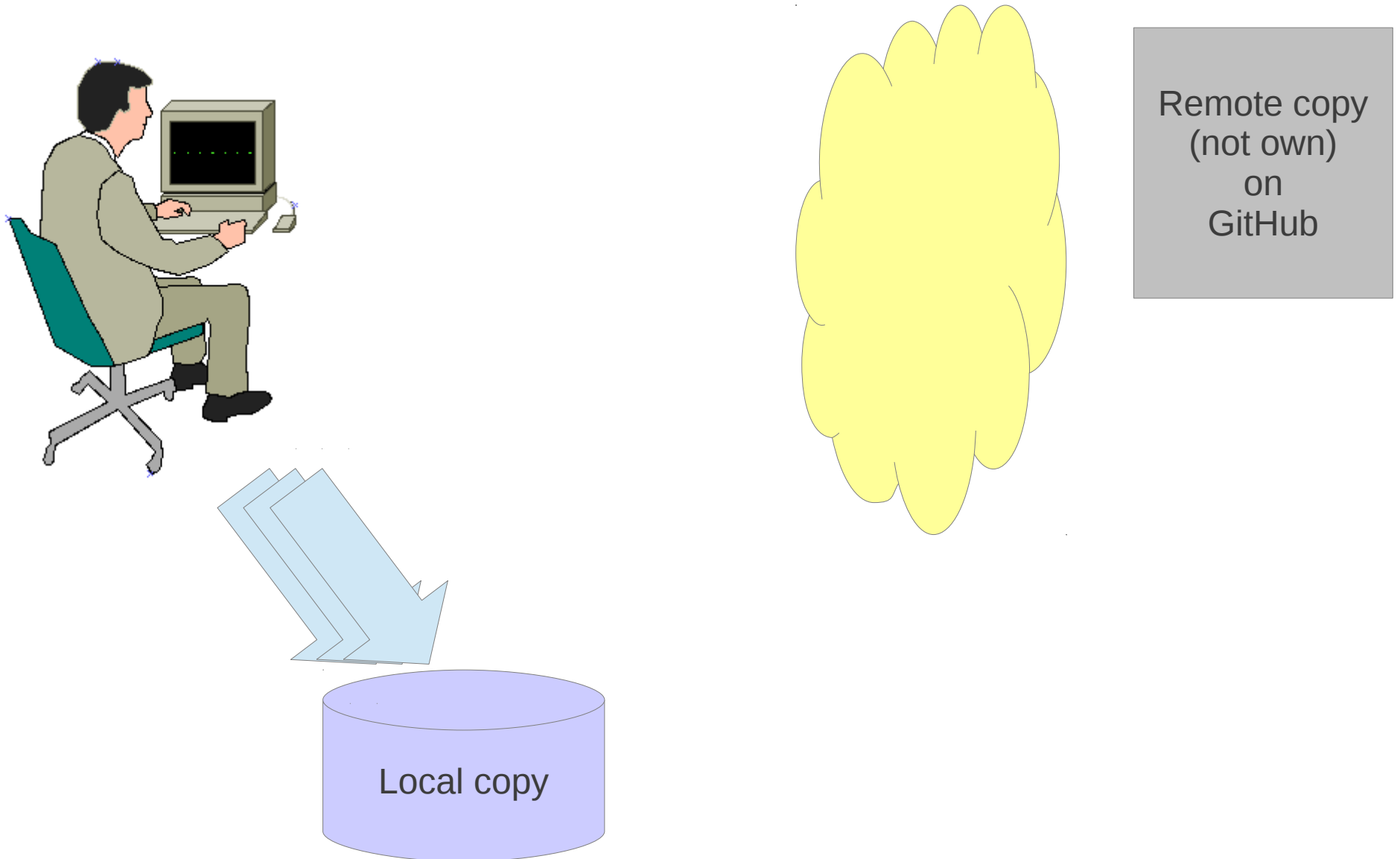


Case 3:
Contributing to an existing project
where you **cannot** push changes

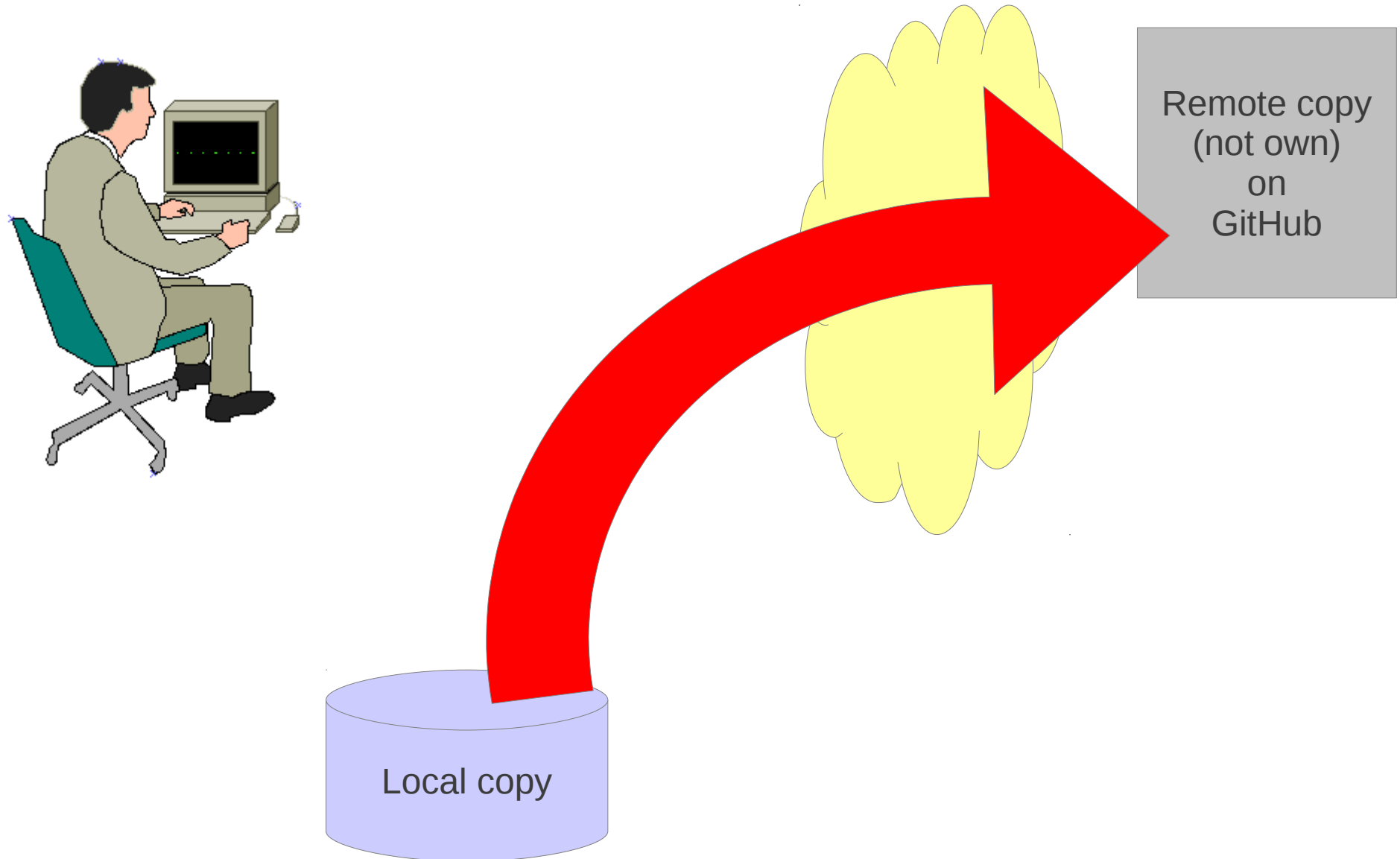
Cloning to a local copy



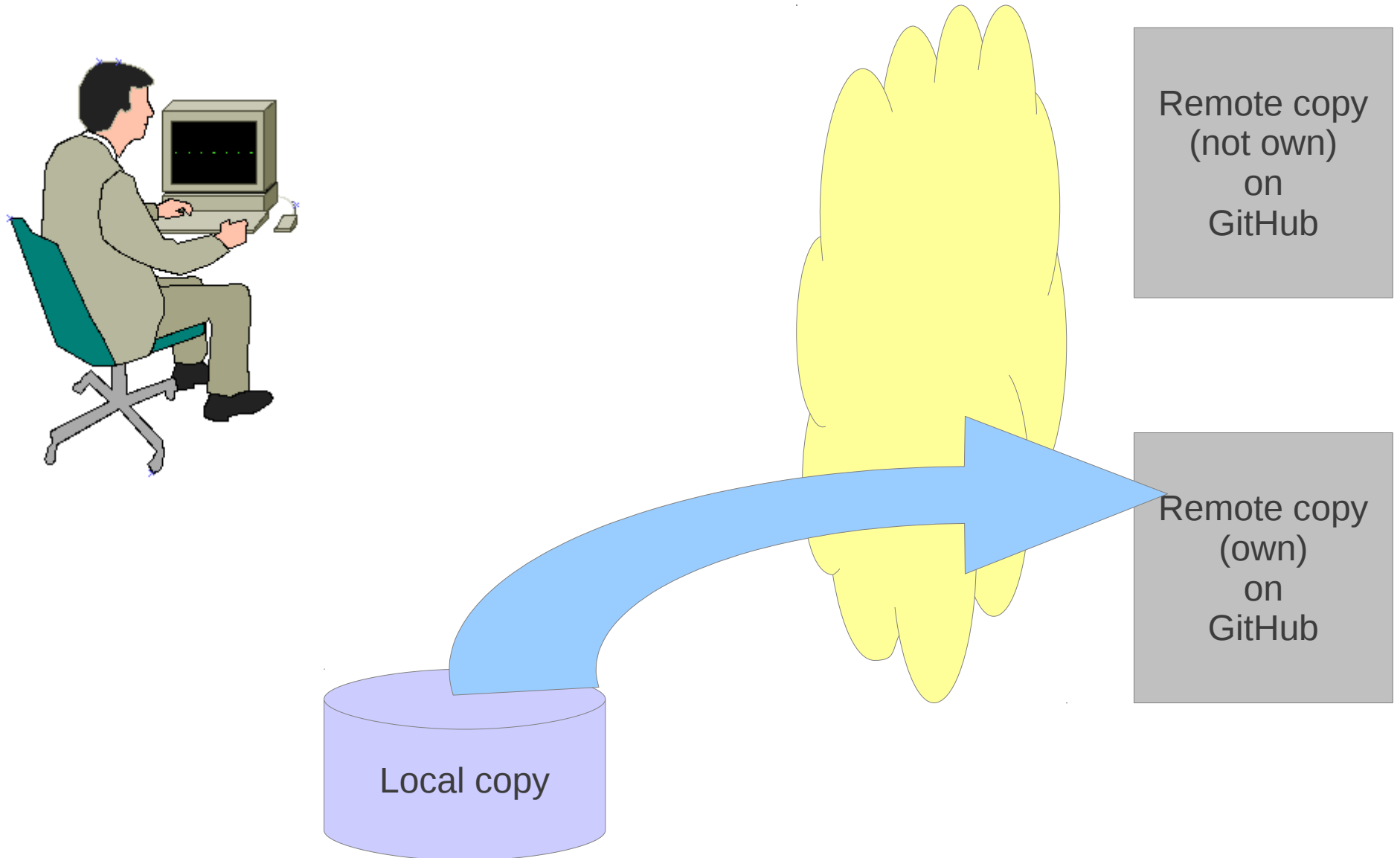
Commit changes



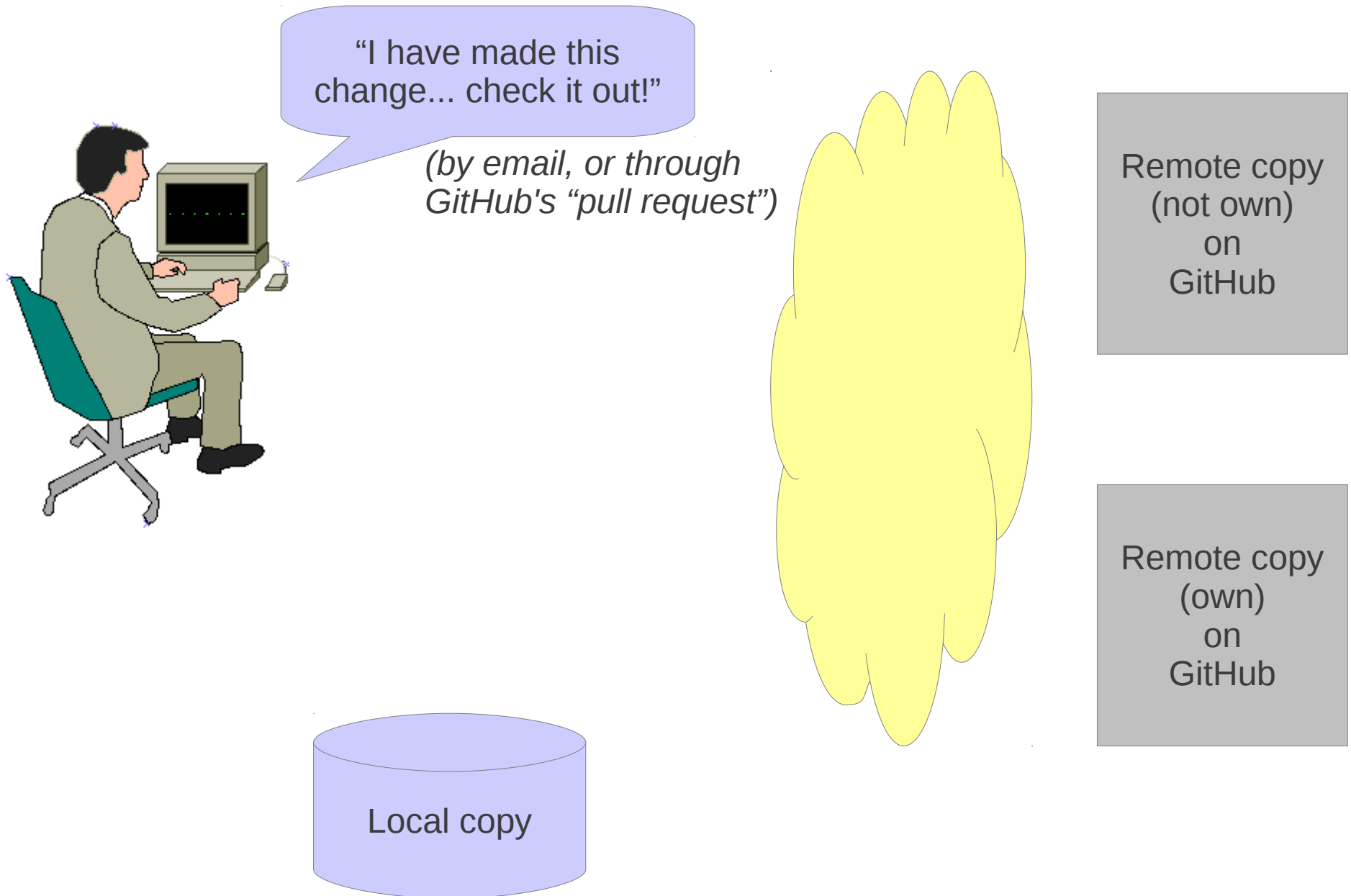
Cannot push without permission



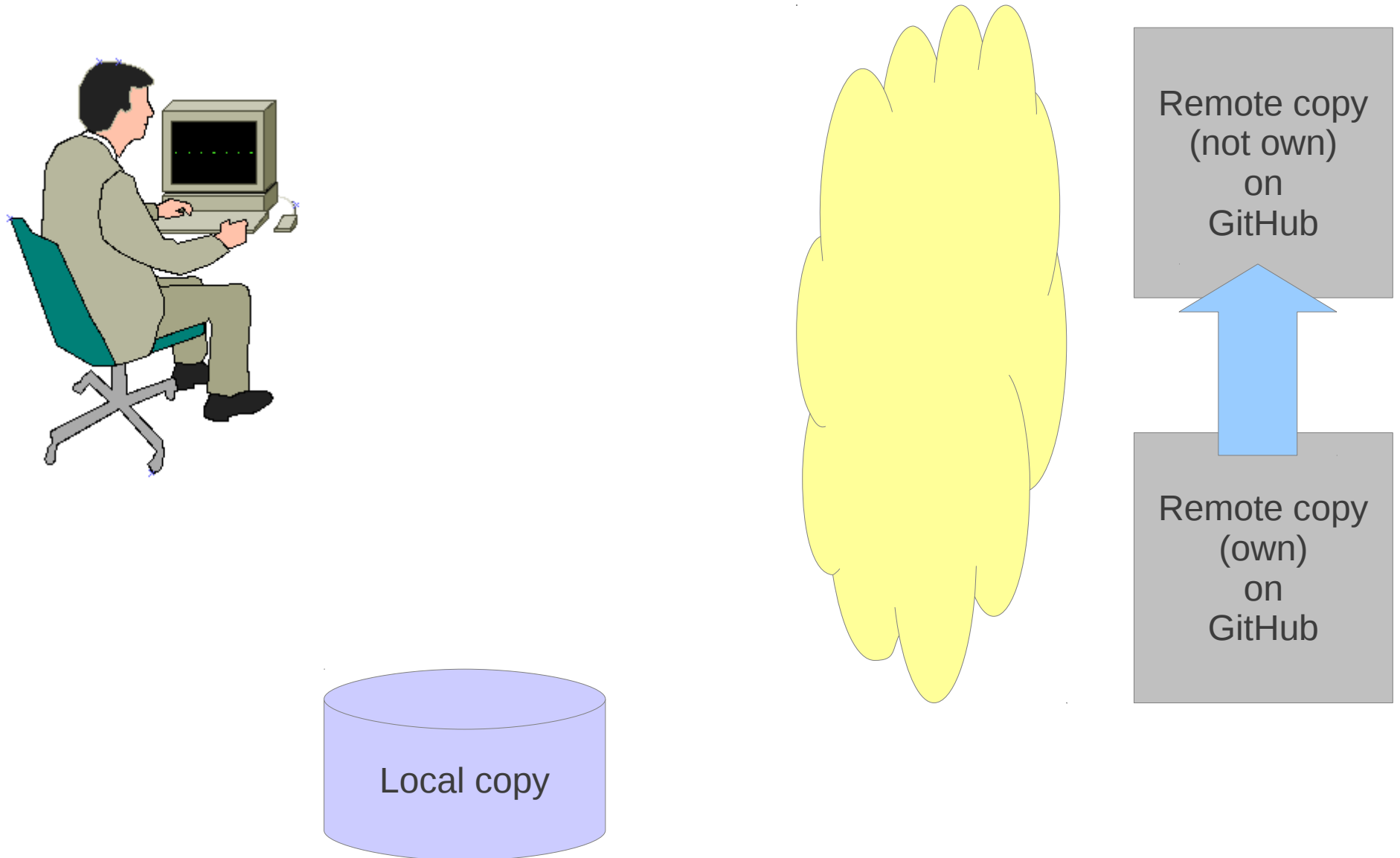
Push changes to own copy



Contact owner

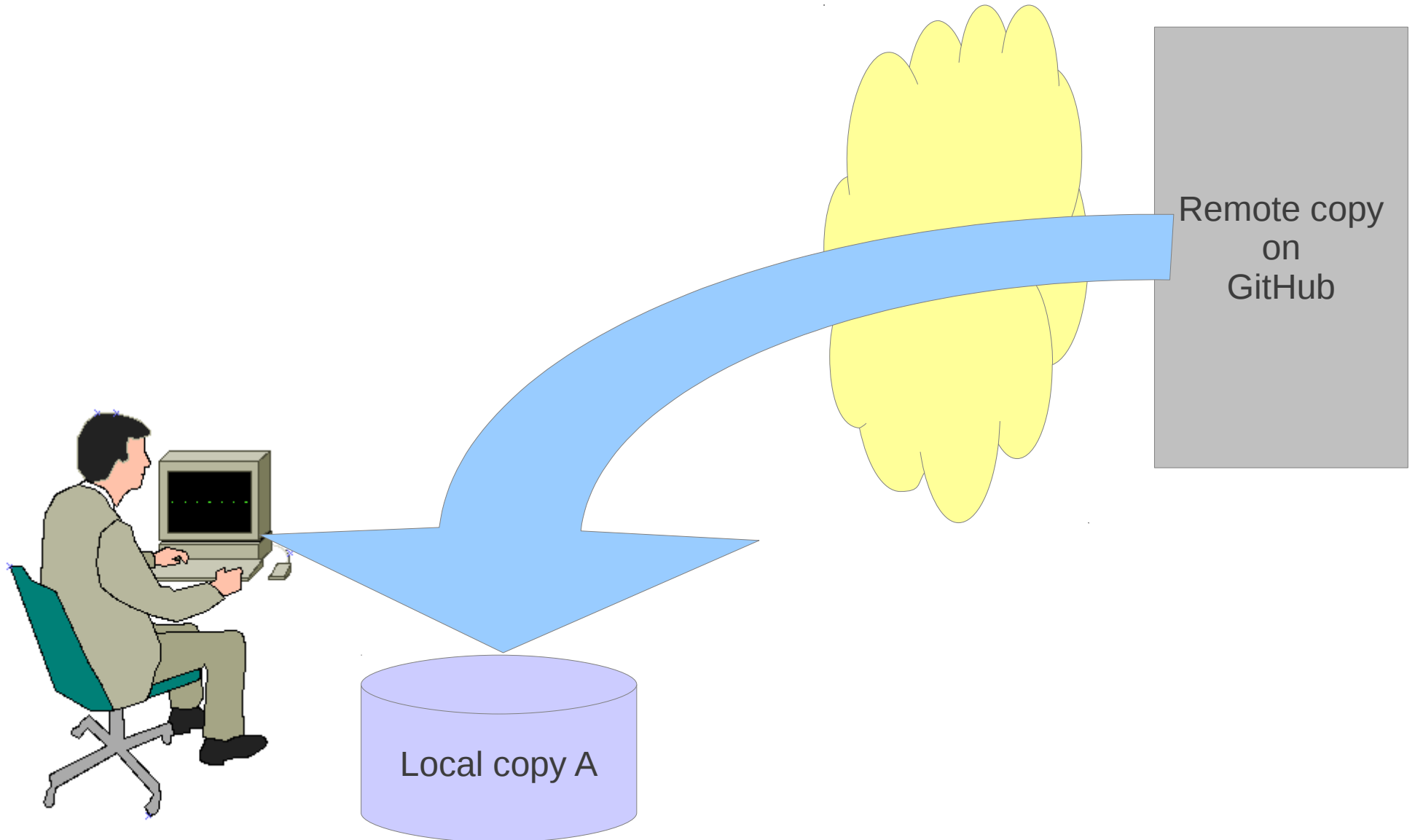


If interested, owner can pull changes

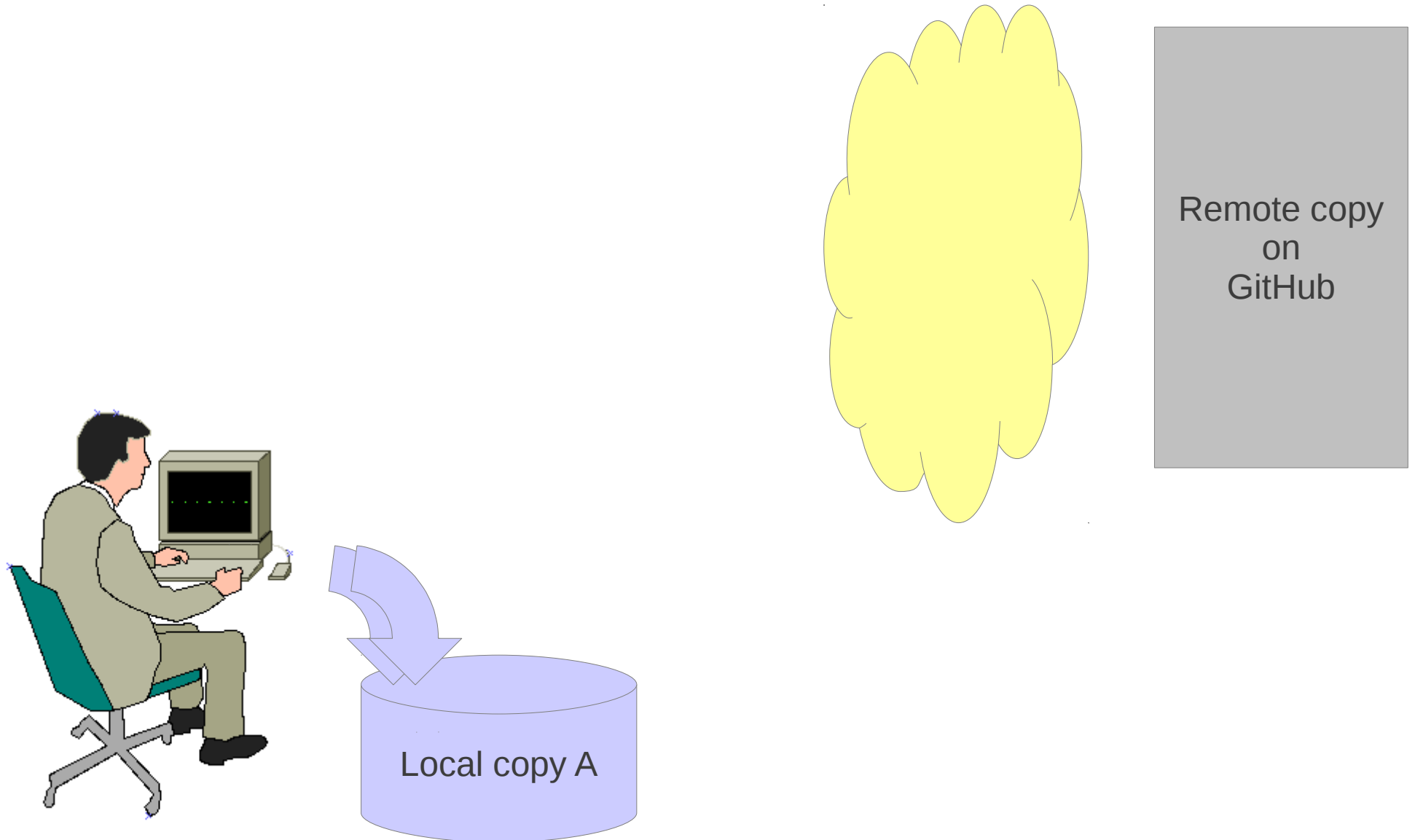


Case 4:
Contributing to an existing project
from two different locations

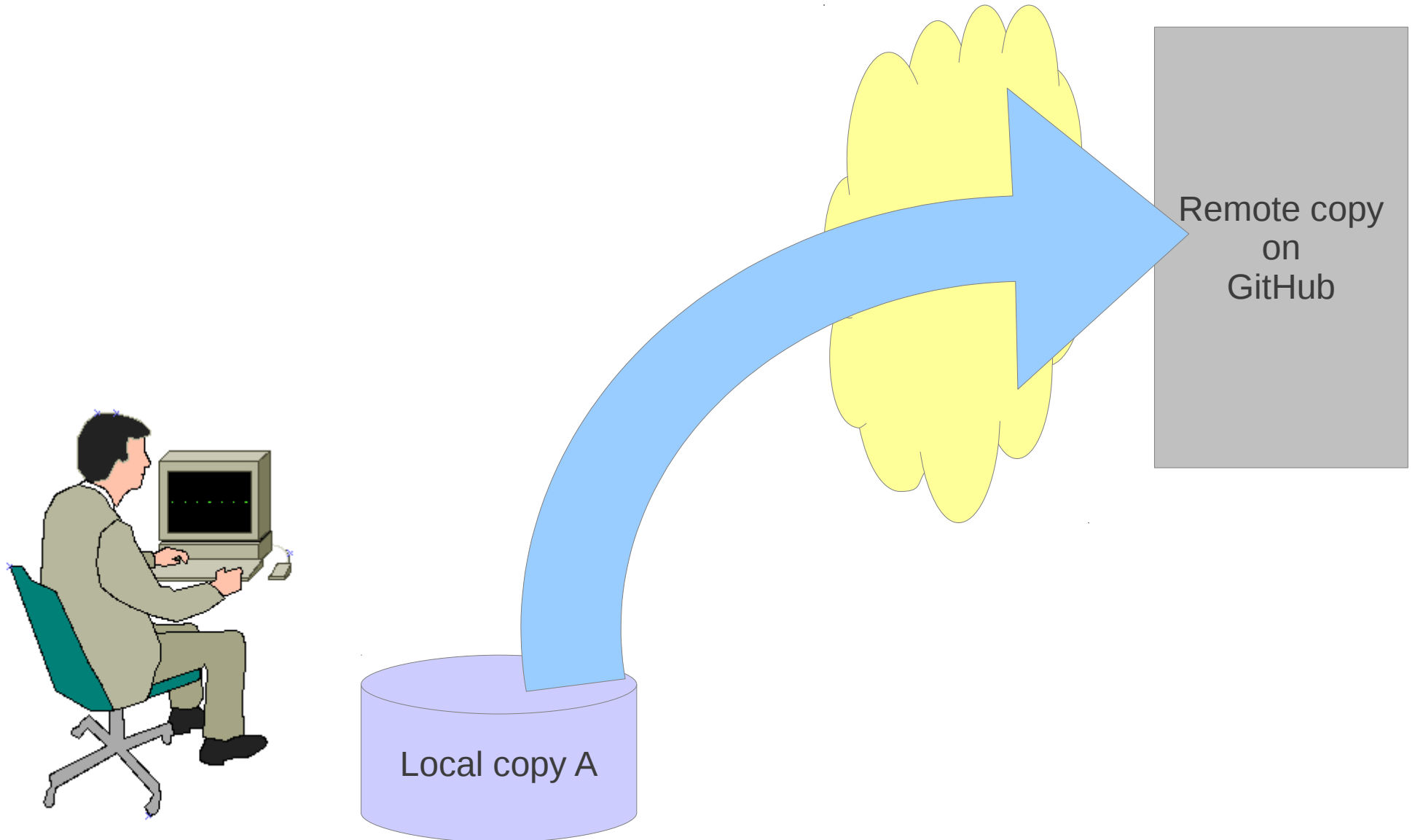
Cloning repository to local copy A



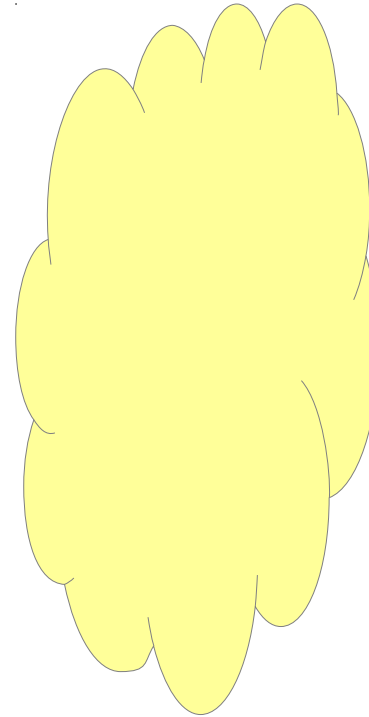
Commit



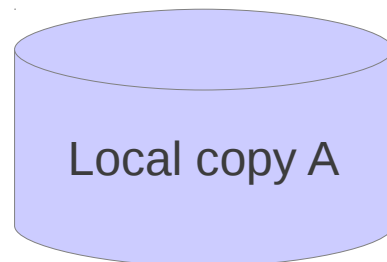
Push



Change location

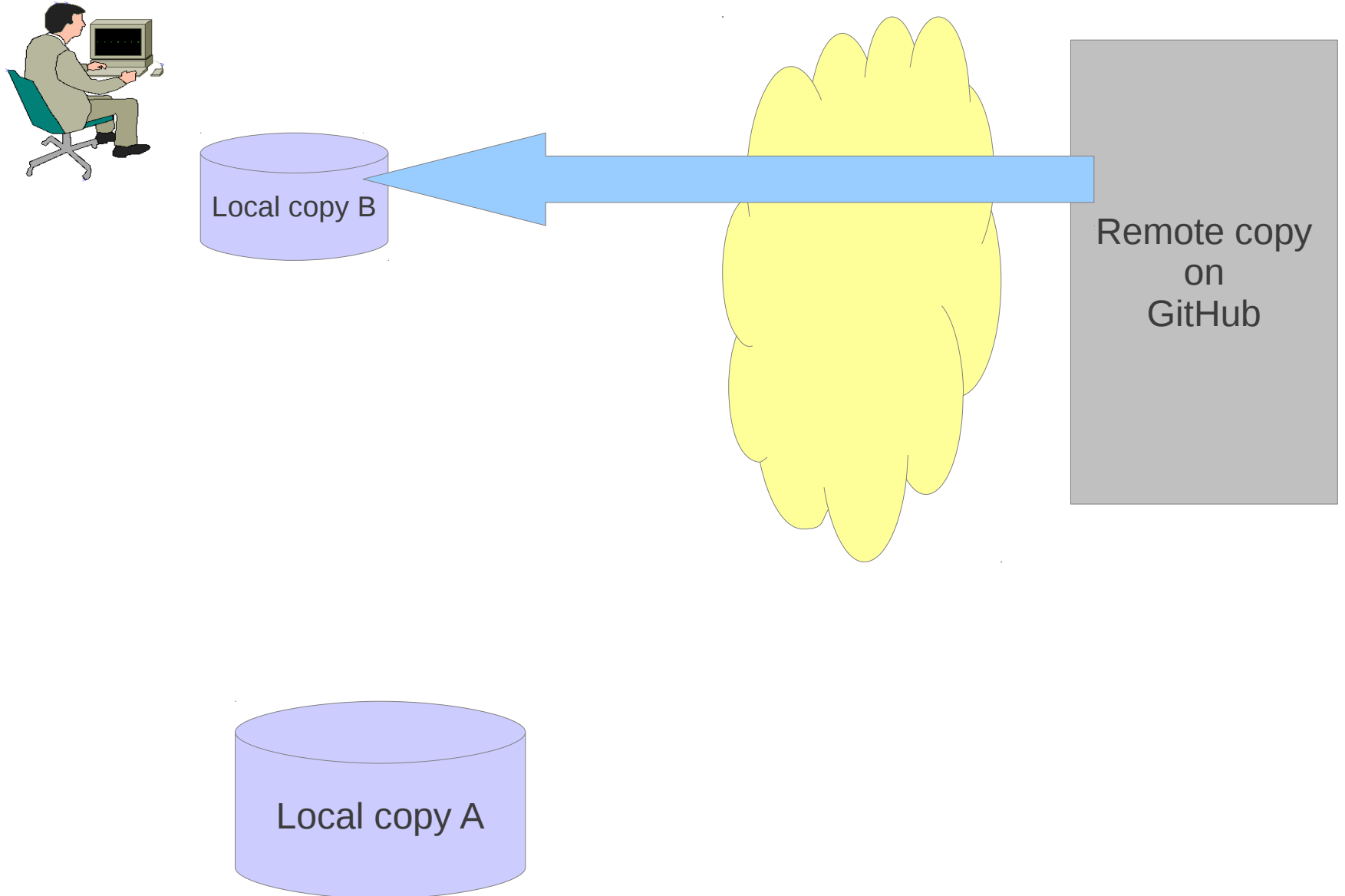


Remote copy
on
GitHub

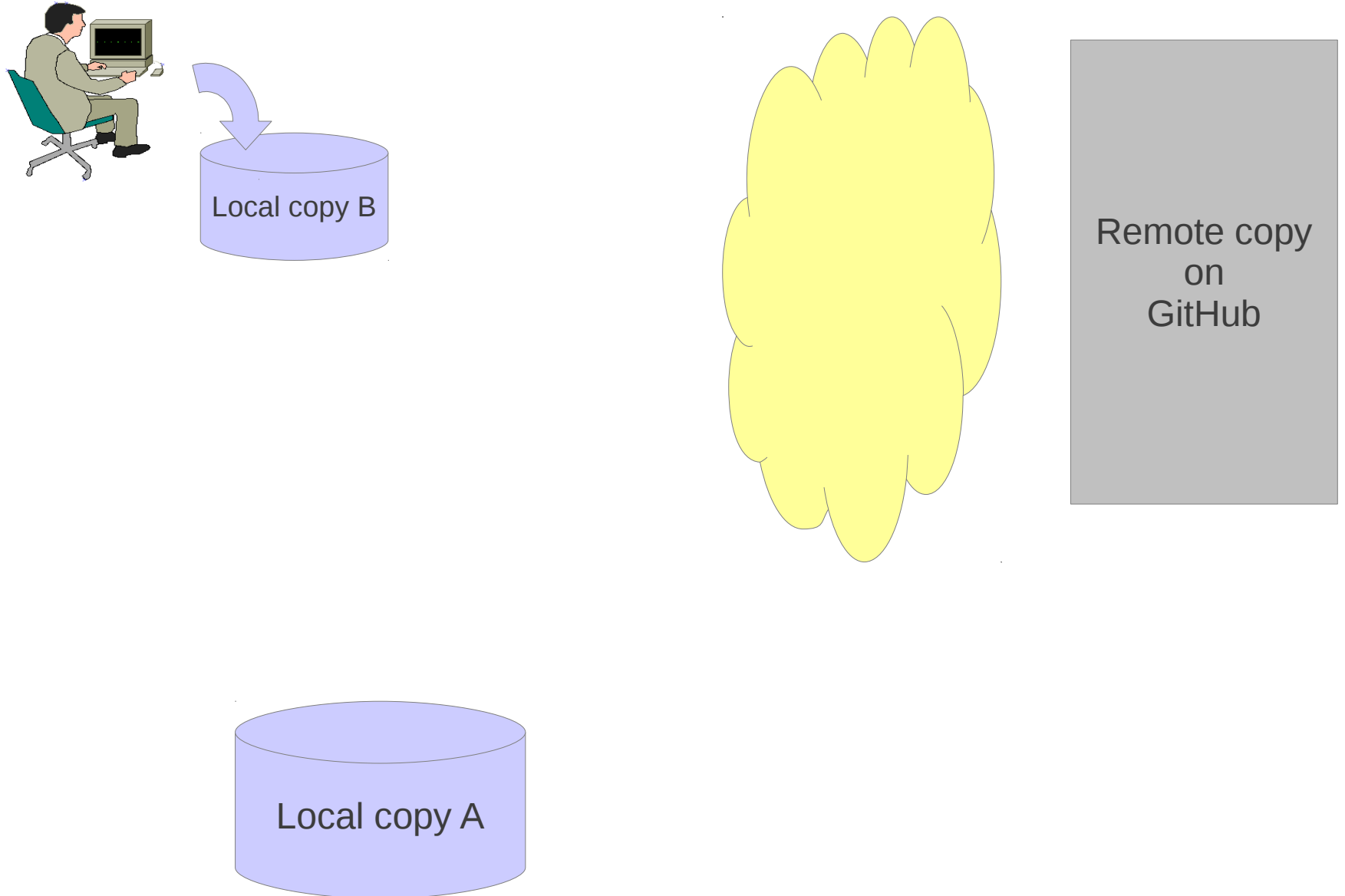


Local copy A

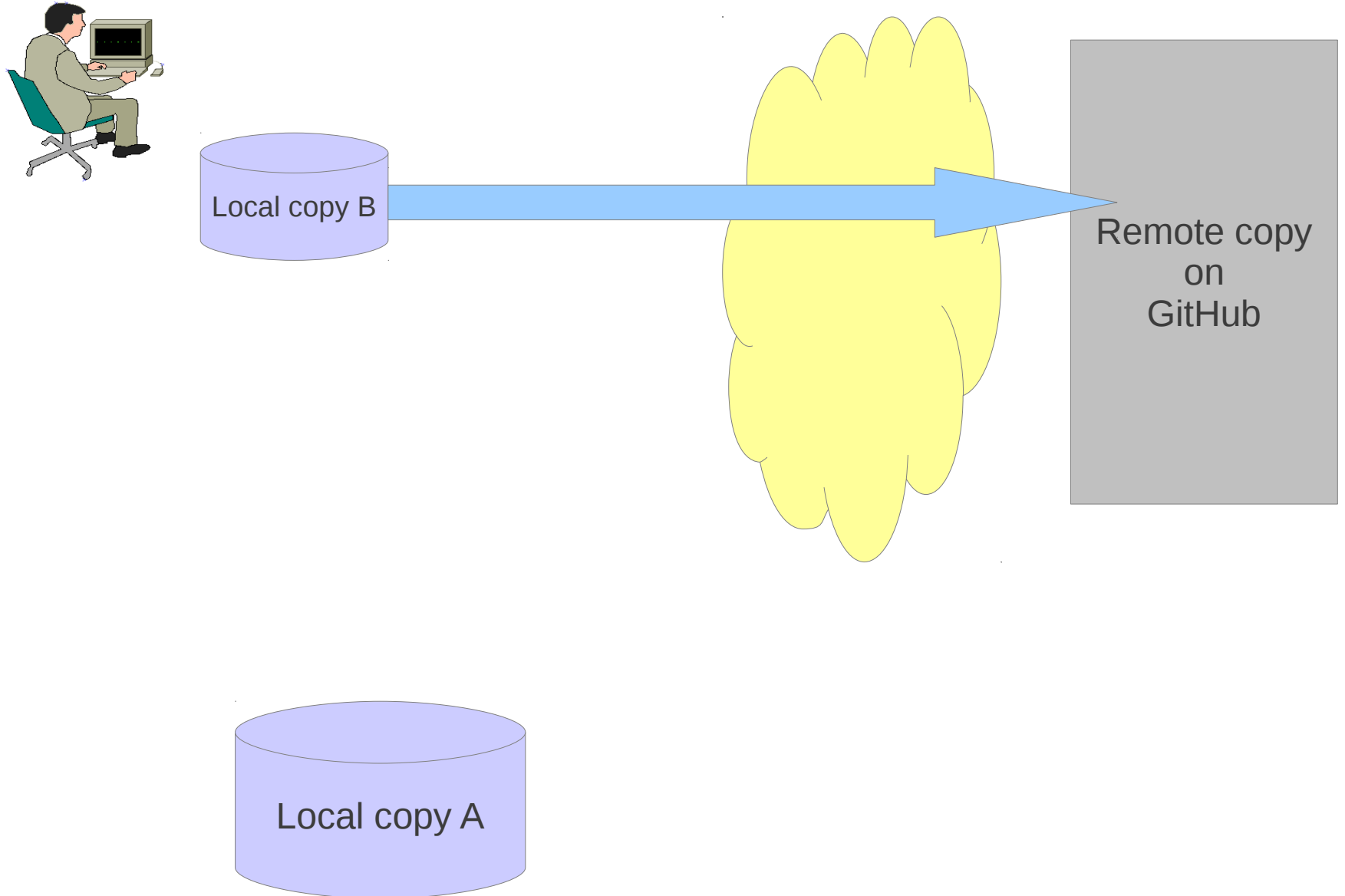
Clone



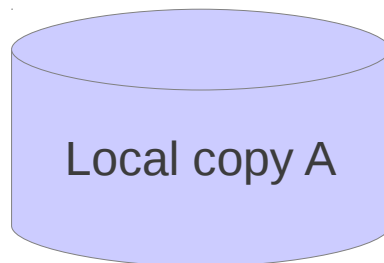
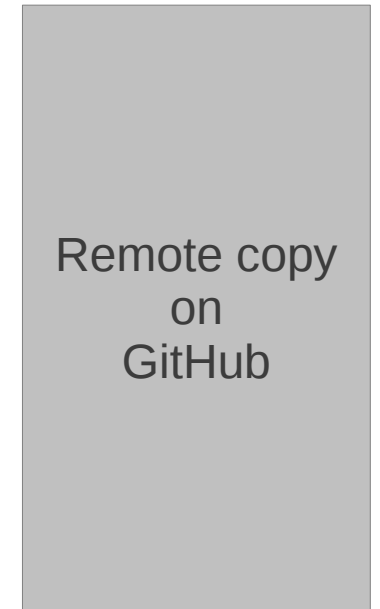
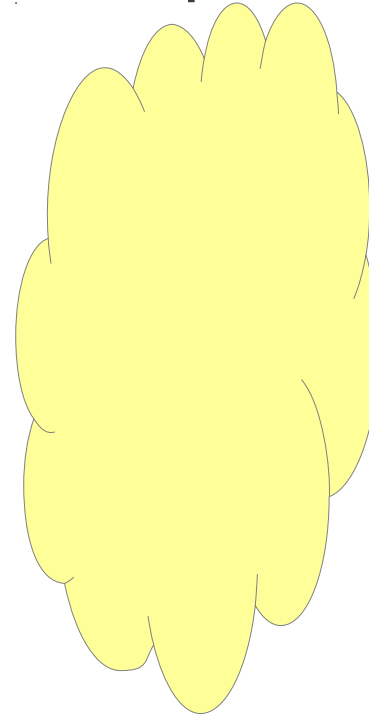
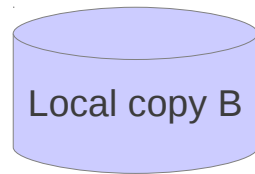
Commit



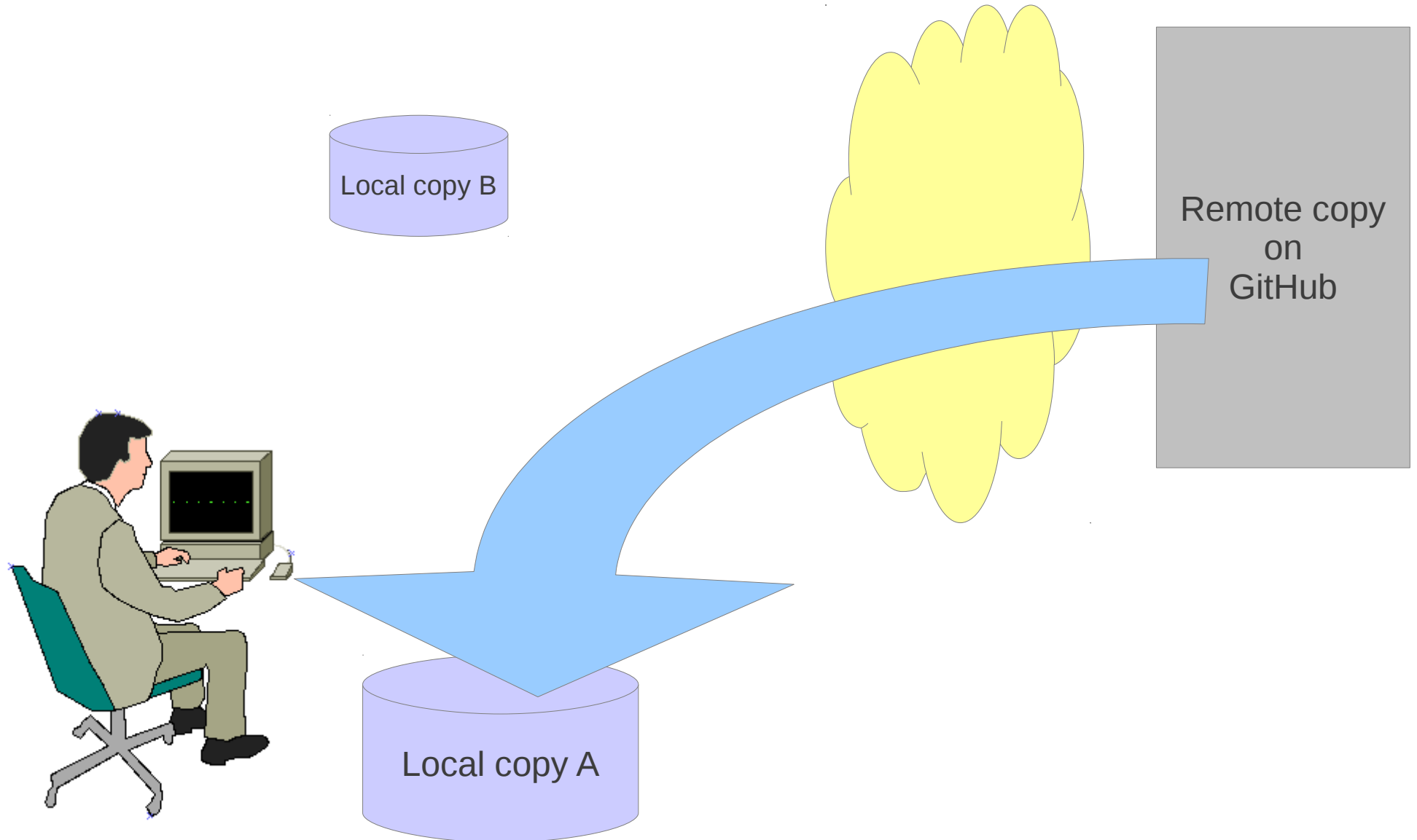
Push



At this point,
copy B is the most modern one
and copy A is outdated
(the remote copy in GitHub is also up-to-date with B)



Pull



Now all copies are up-to-date

