

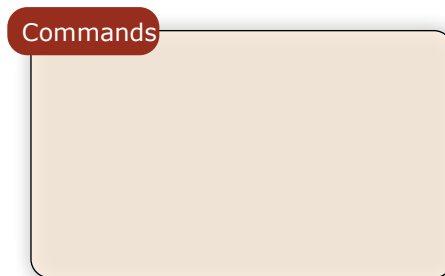
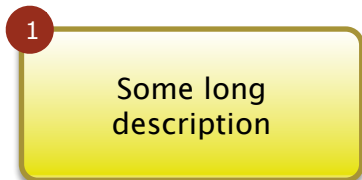
# Page title



Text here

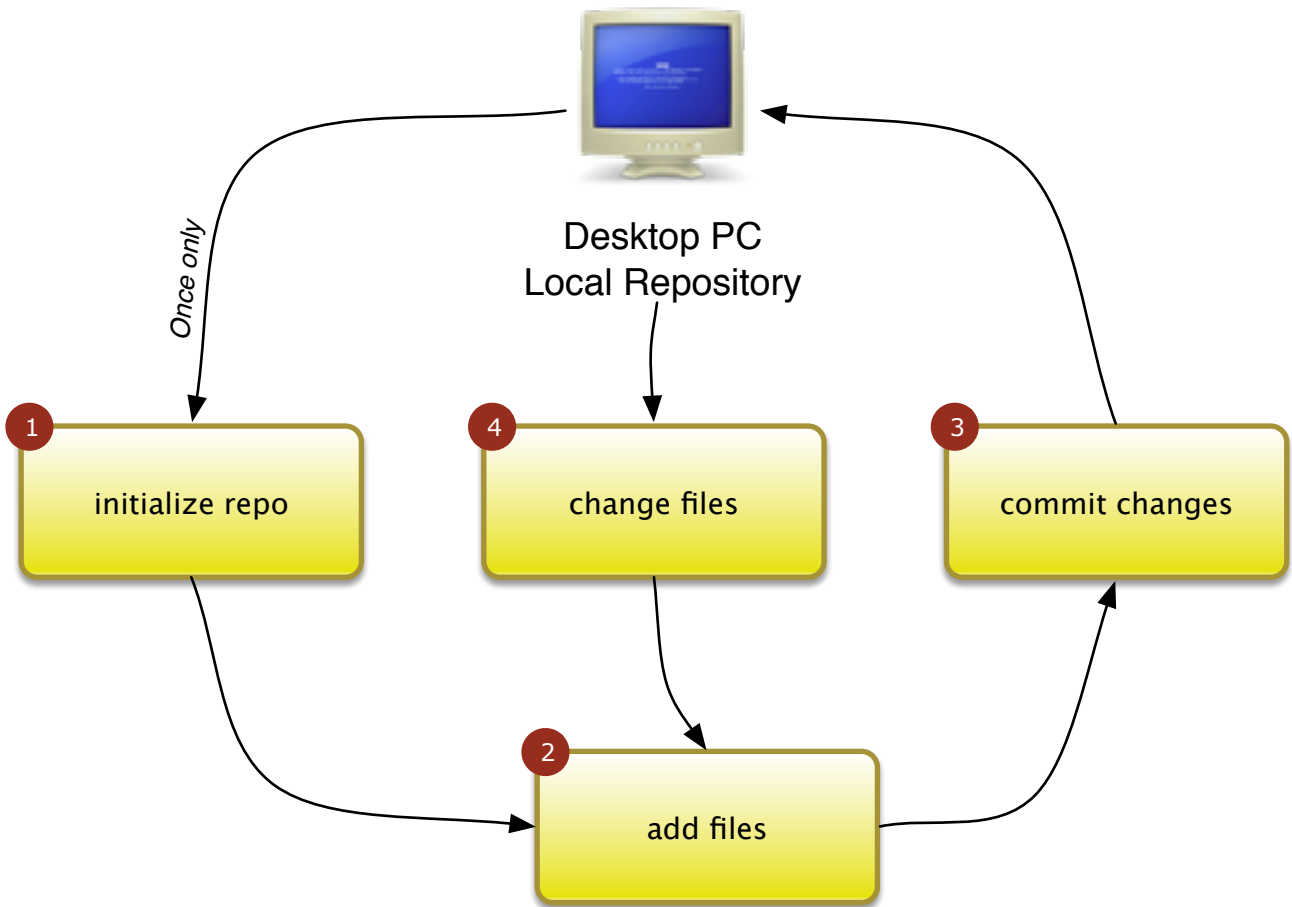


Text here

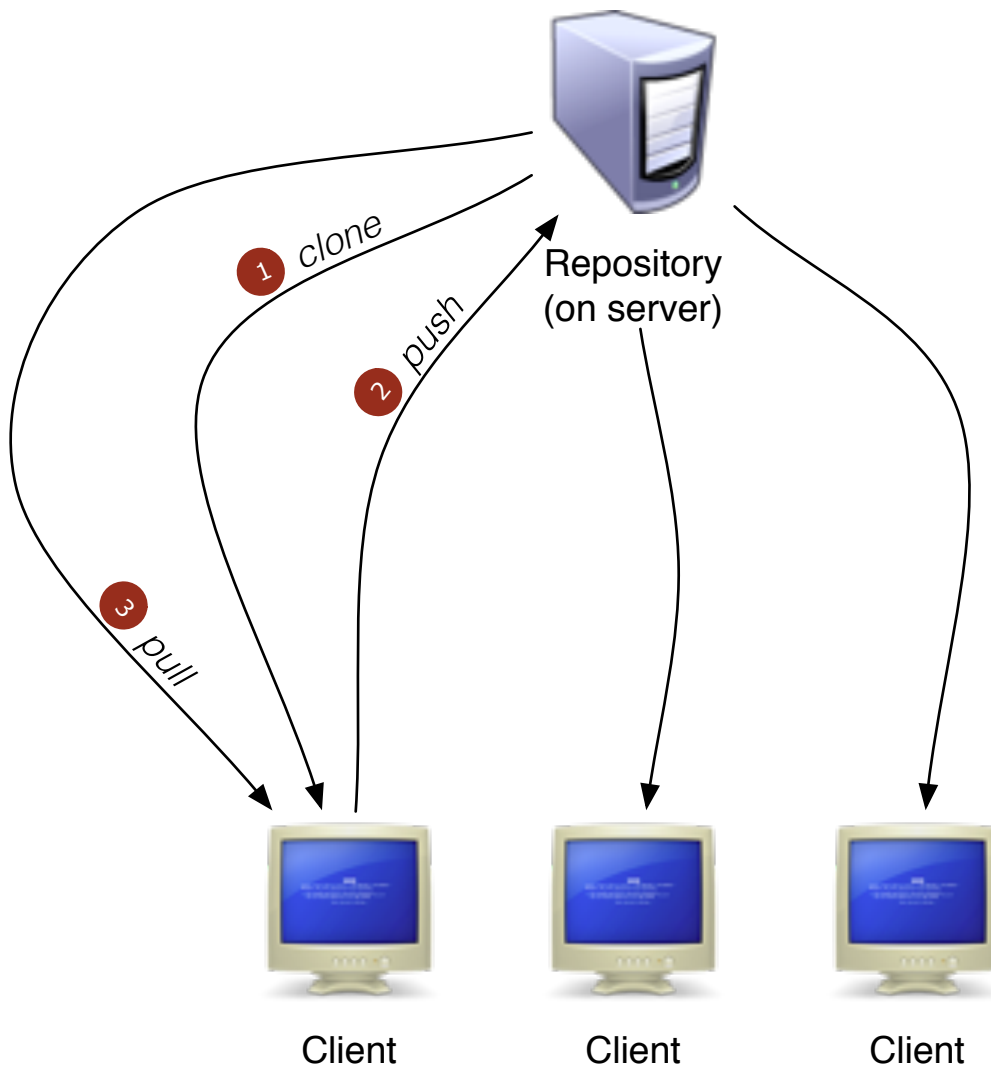


1 *action*

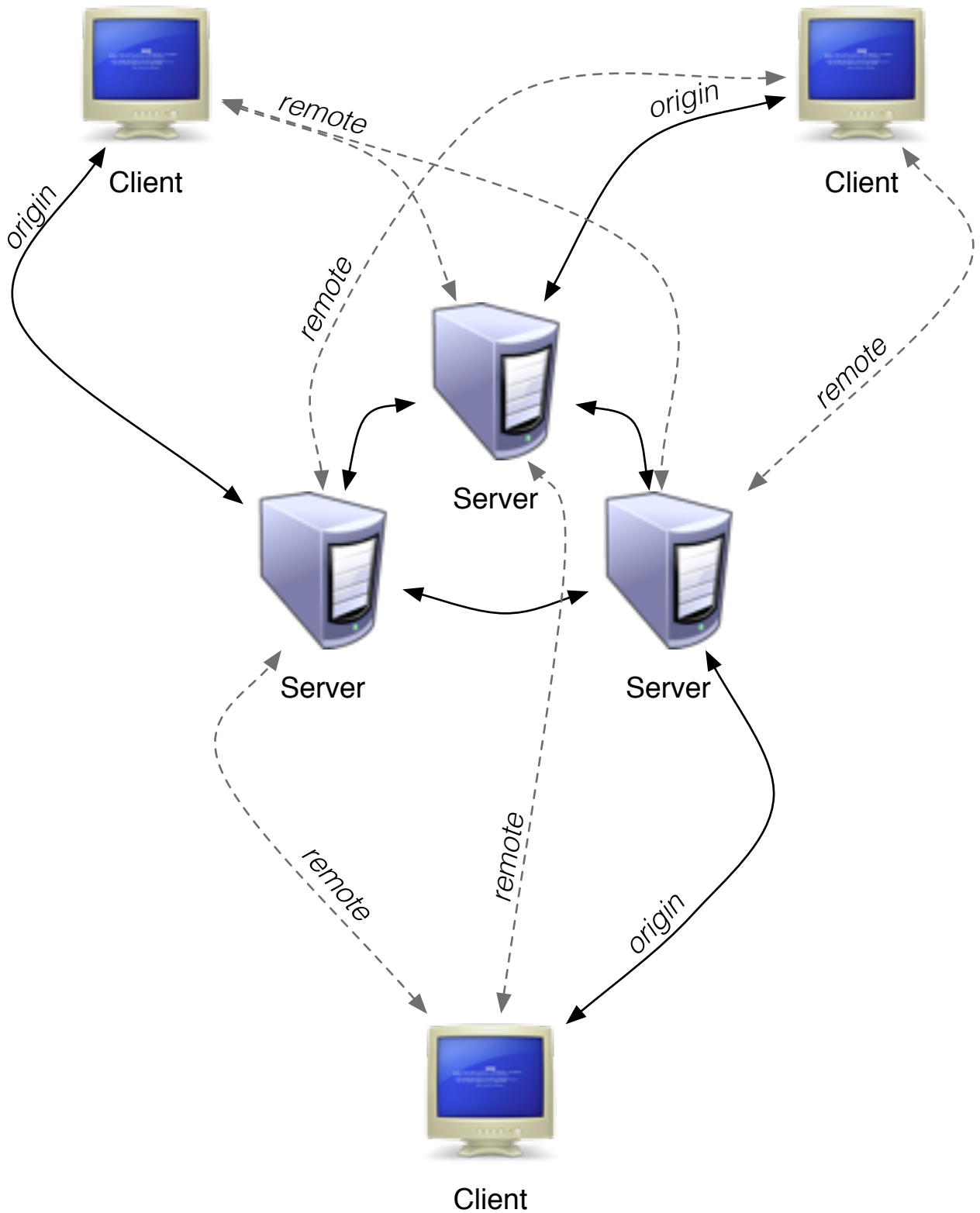
# Working with a local repository



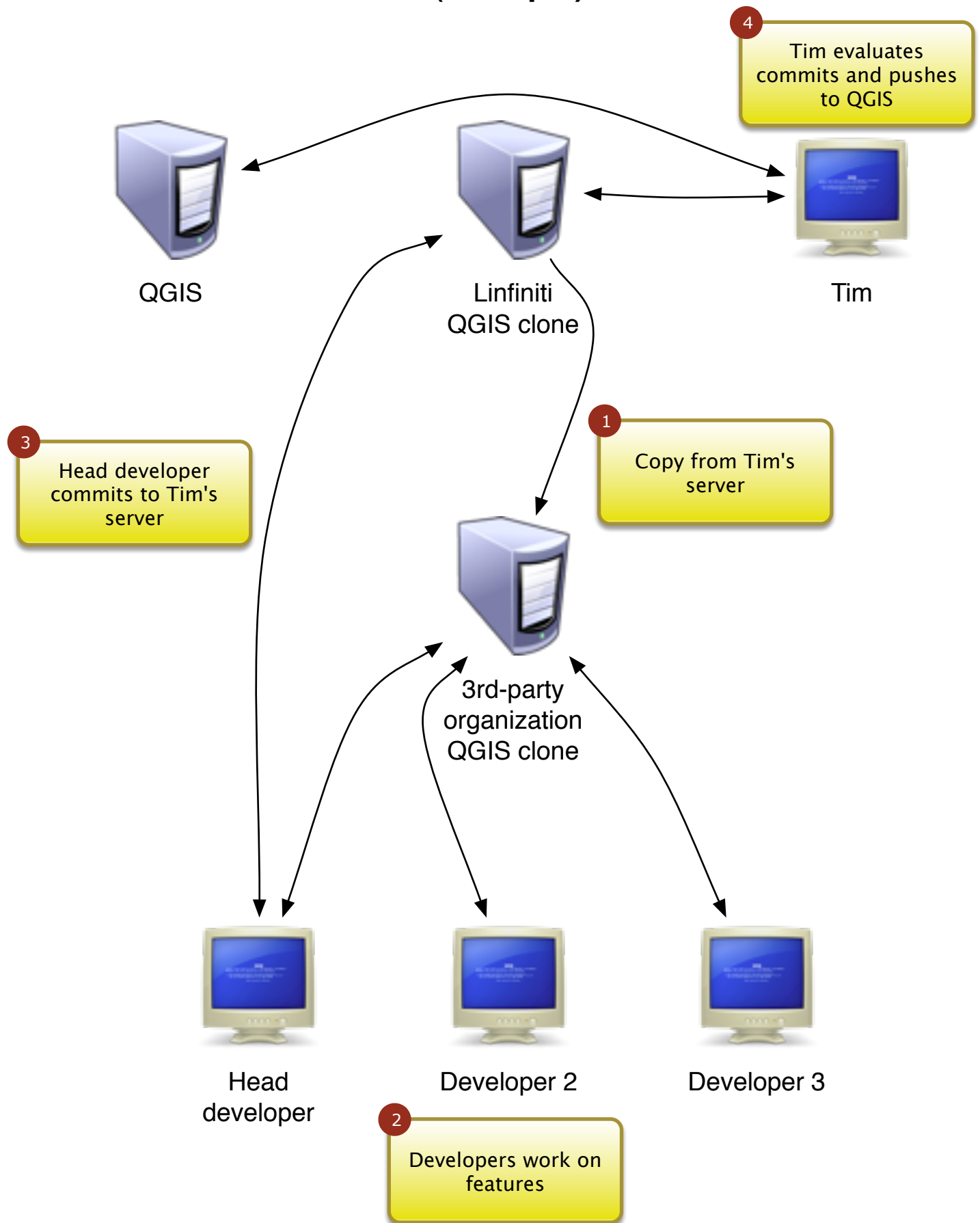
## Working with a central repository



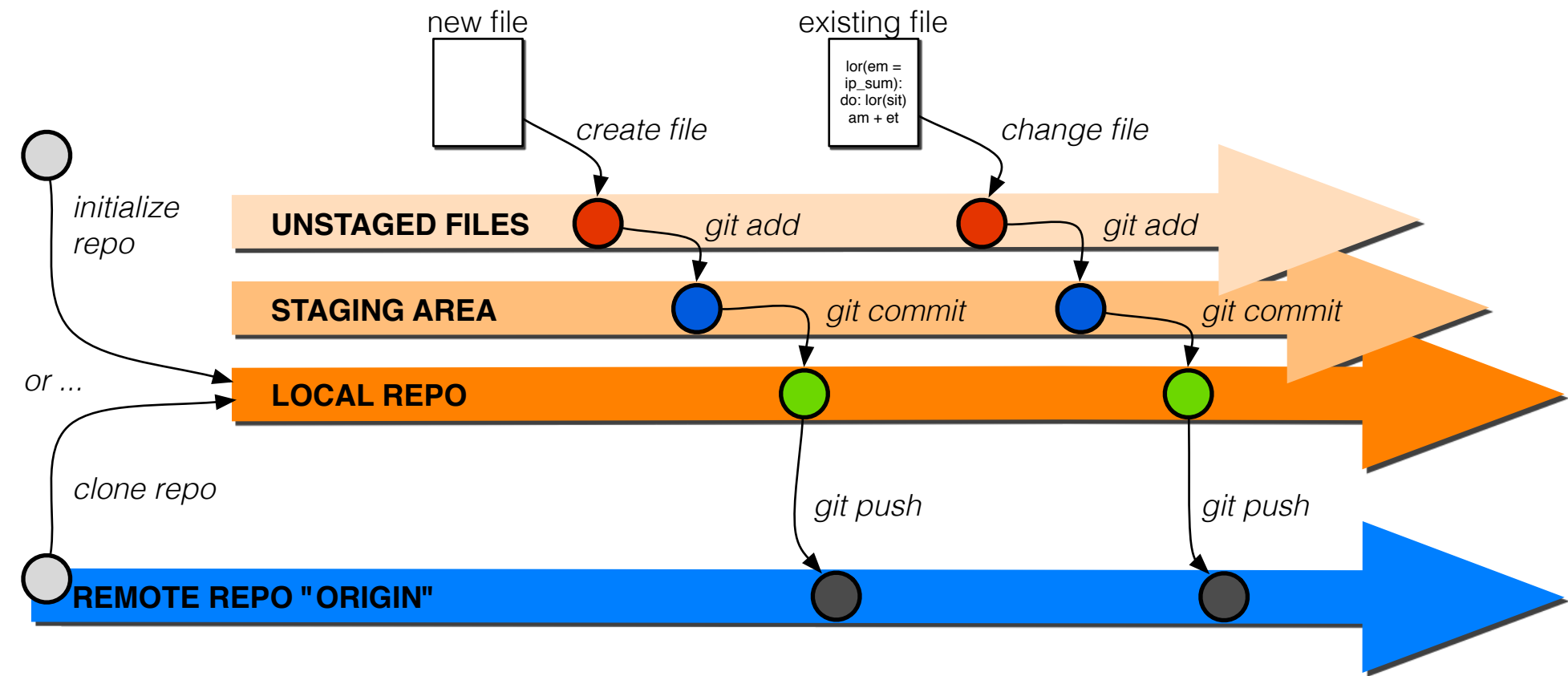
## Working in a decentralized model



## Working in a decentralized model (example)



# Git workflow: checkout, add, commit & push



## Commands

**git init:** initialize a repository

**git clone <url>:** clone a repository to make a local copy

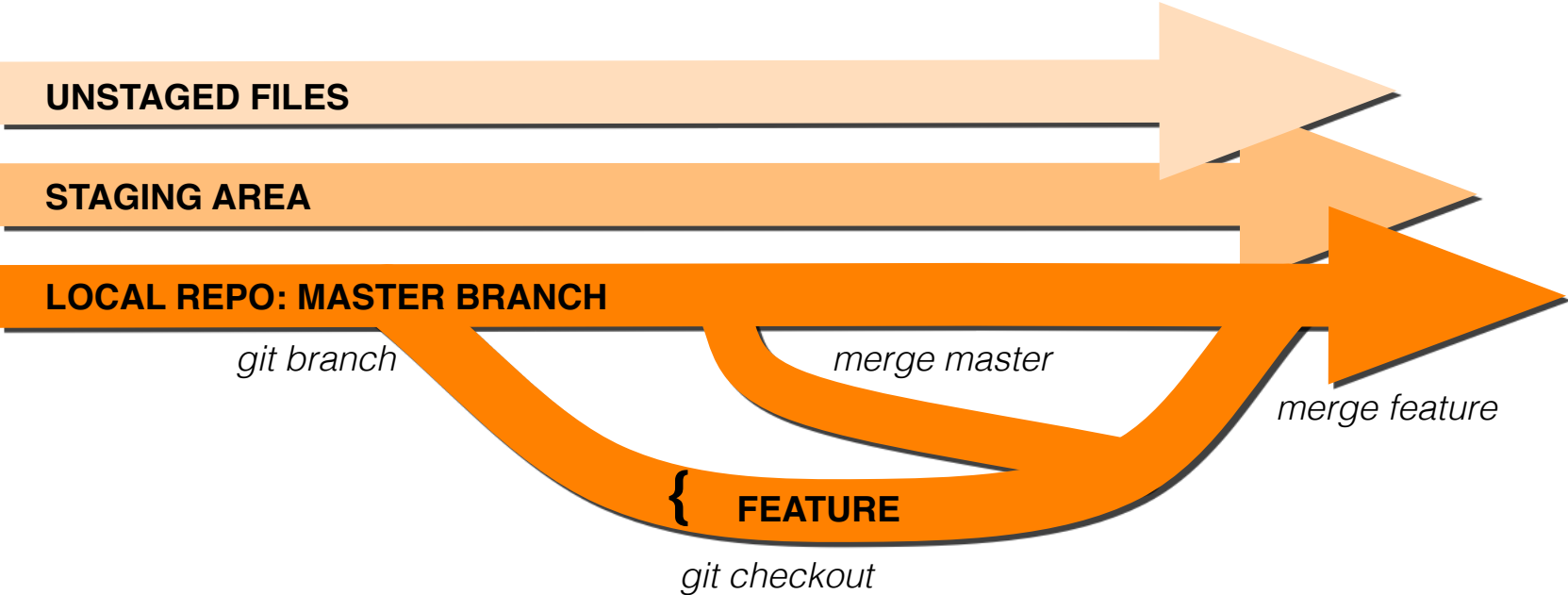
**git add:** stage a file/change

**git commit:** commit file to local repository

**git push:** push changes from local repository to origin

**git status:** see which files are unstaged/staged

Git workflow: branch & merge

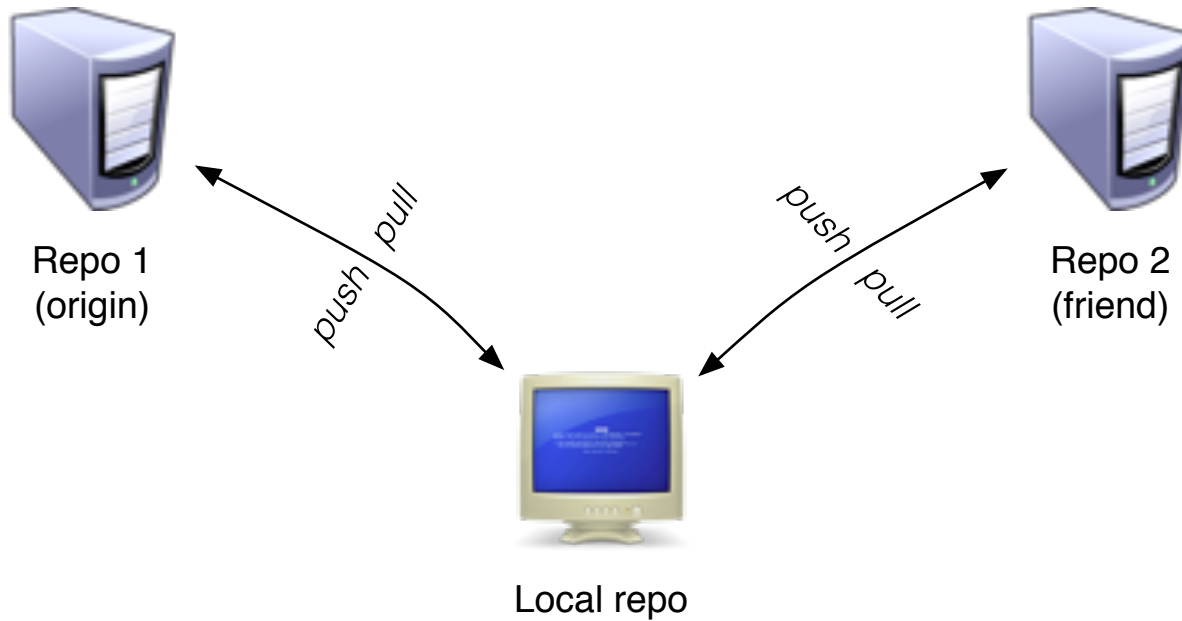


Commands

**git branch:** create a local branch in your repository  
**git checkout <branch>:** start working in a branch  
**git checkout master:** return to master branch (staging area must be clean)

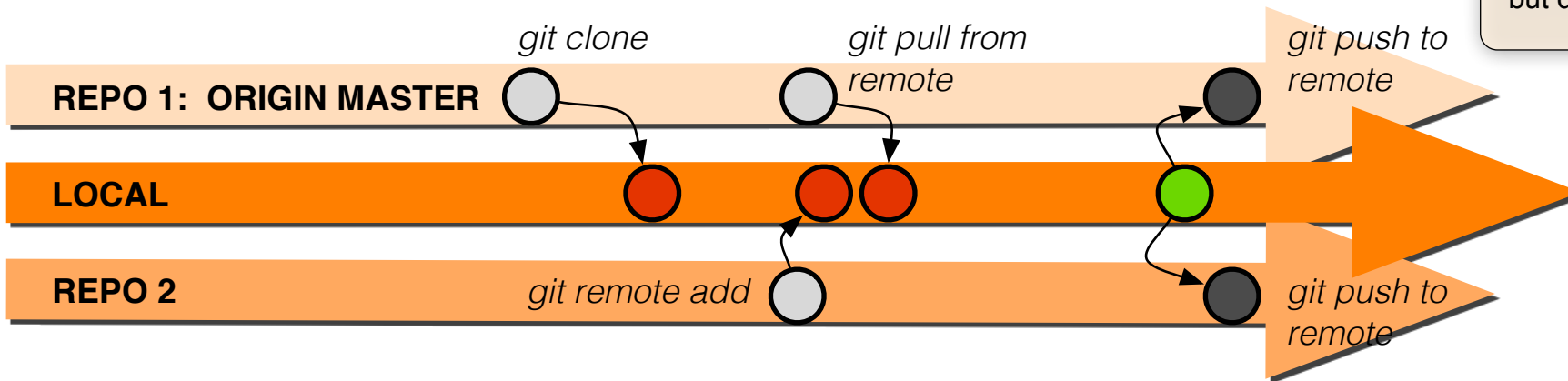
**git merge <other branch>:** bring changes from "other branch" into your branch  
**git branch -D <unwanted branch>:** delete a branch  
**git branch:** list branches (current shown with A)

# Git workflow: remotes



## Commands

**git clone:** copy remote repo  
**git remote add <nickname> <remote url>:** register a new remote repo  
**git remote -v:** list remote repos  
**git pull <nickname> <branch>:** fetch and merge changes from remote repo  
**git push <nickname> <branch>:** push local changes to remote repo  
**git fetch <nickname>:** fetch history from remote but don't merge

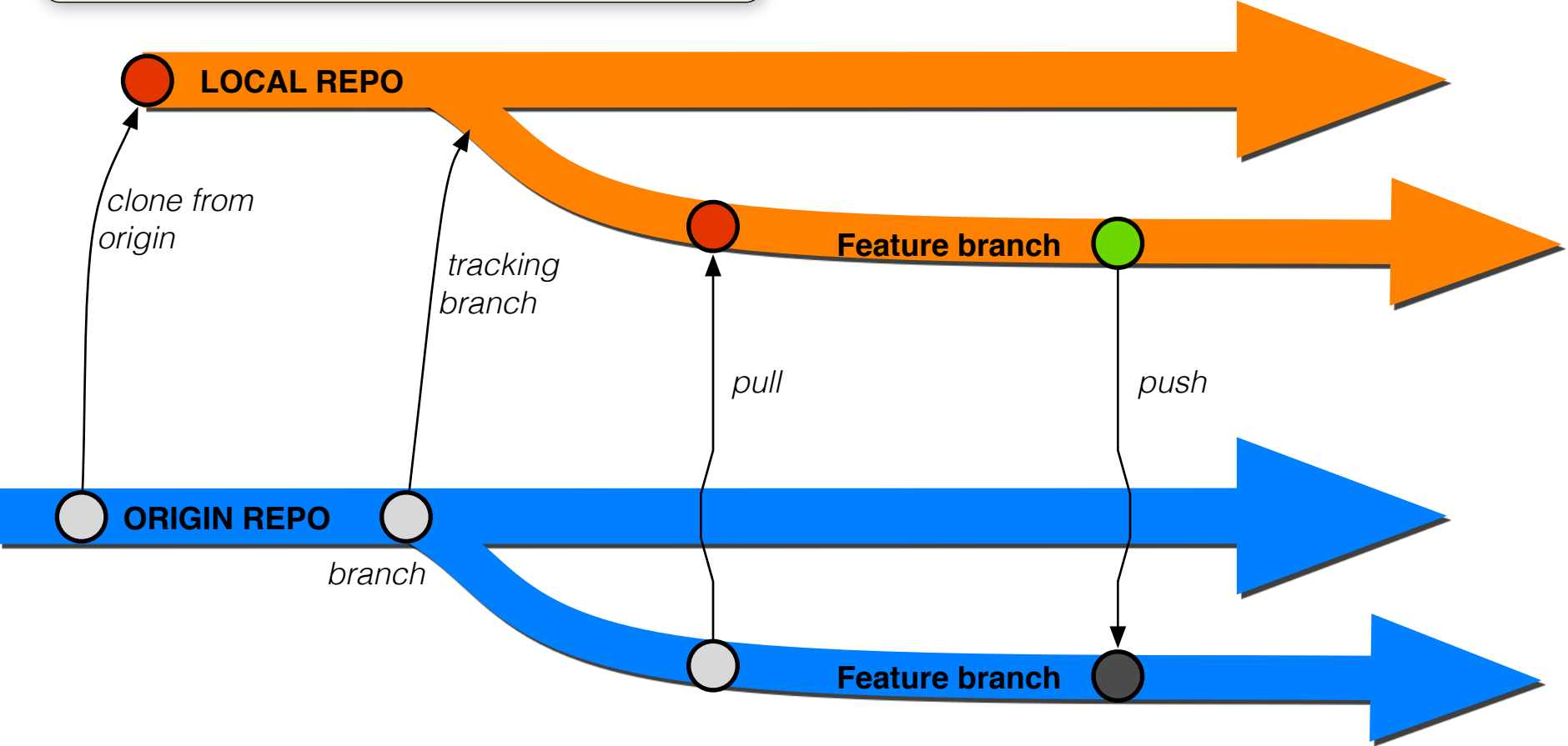




# Git workflow: tracking branches

## Commands

**git branch --track <remote nickname> <branch>:**  
create a branch and synchronize it with a remote branch  
**git branch -r:** list all remote branches  
**git pull:** fetch changes from remote branch  
**git push:** put local changes into remote branch



# Git handy commands

## Commands

**git add:** put a file onto staging area or mark locally changed files for staging

**git rm:** delete a file locally and mark for removal from the repo

**git mv:** move a file locally and in the repo on next commit (retaining its history)

**git diff:** view difference between local staging and repo's version

**git mergetool:** use a graphical to view and resolve merge conflicts

**git blame:** see a log of who has changed a file

**git log:** see a history of changes

## Working in a hierarchical model

