



# Taller de GIT

Git Commands- Git Flow - Github

RONY HANCCO

GIRO PINTO



# ¿Qué es Git?

# ¿Por qué es necesario?

Git es un sistema de control de versiones distribuido.

- Git permite trabajar en paralelo y maneja un historial de cambios.
- Con Git puedes trabajar tanto con un repositorio remoto y un repositorio local.
- Git permite revertir y volver a una versión anterior.

# Instalación Windows

Link de instalación git-scm

Herramientas adicionales

- Git BASH
- Git CMD
- Git GUI

# Instalación en Linux

## Dependiendo de tu distribución

```
$sudo apt install git
```

```
$sudo dnf install git
```

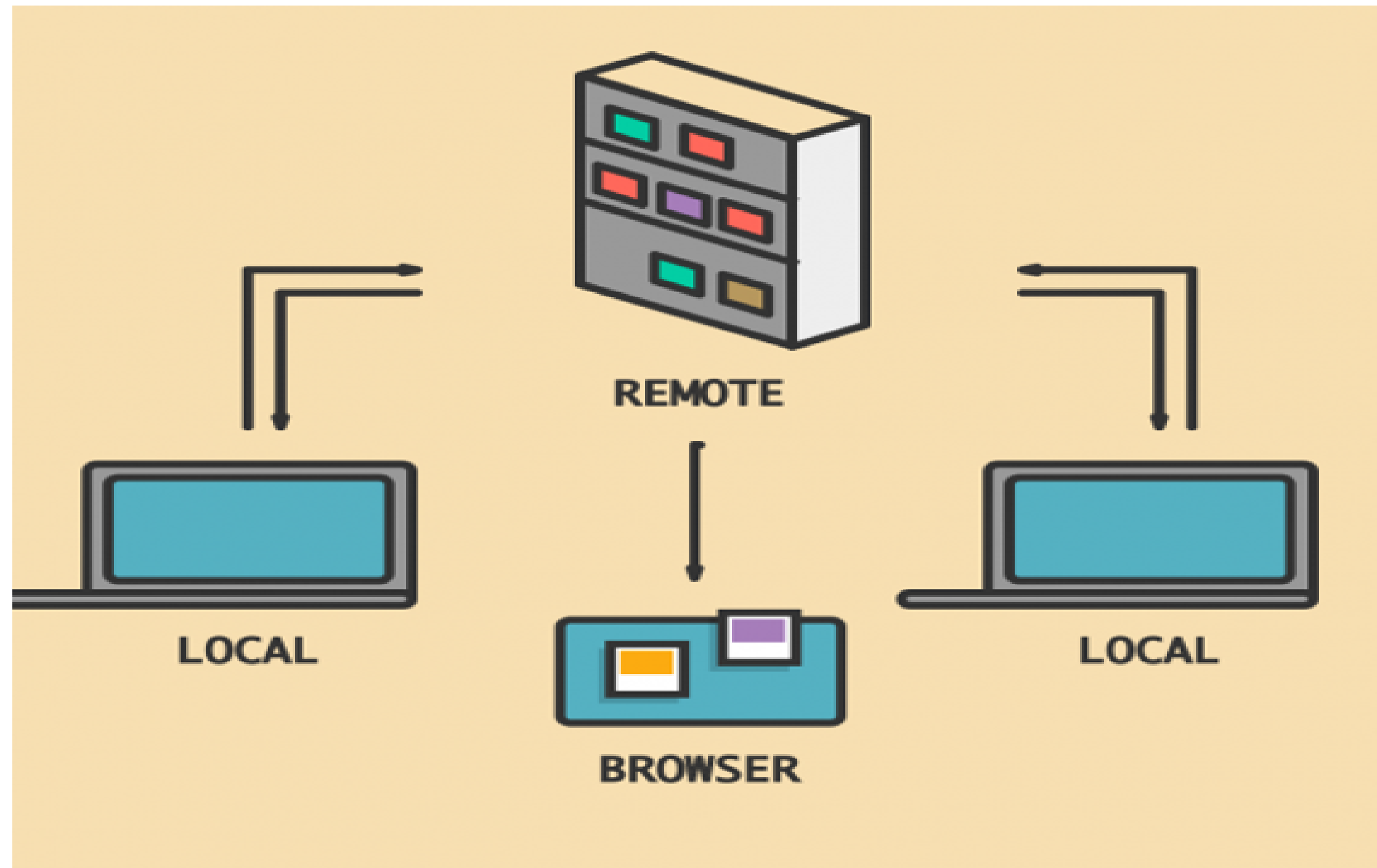
```
$sudo pacman -S install git
```

# Configuración global de usuario

```
$git config --global user.name NOMBRE
```

```
$git config --global user.email CORREO
```

# Repositorios locales y remotos



# Comandos básicos

```
$git init
```

```
$git status
```

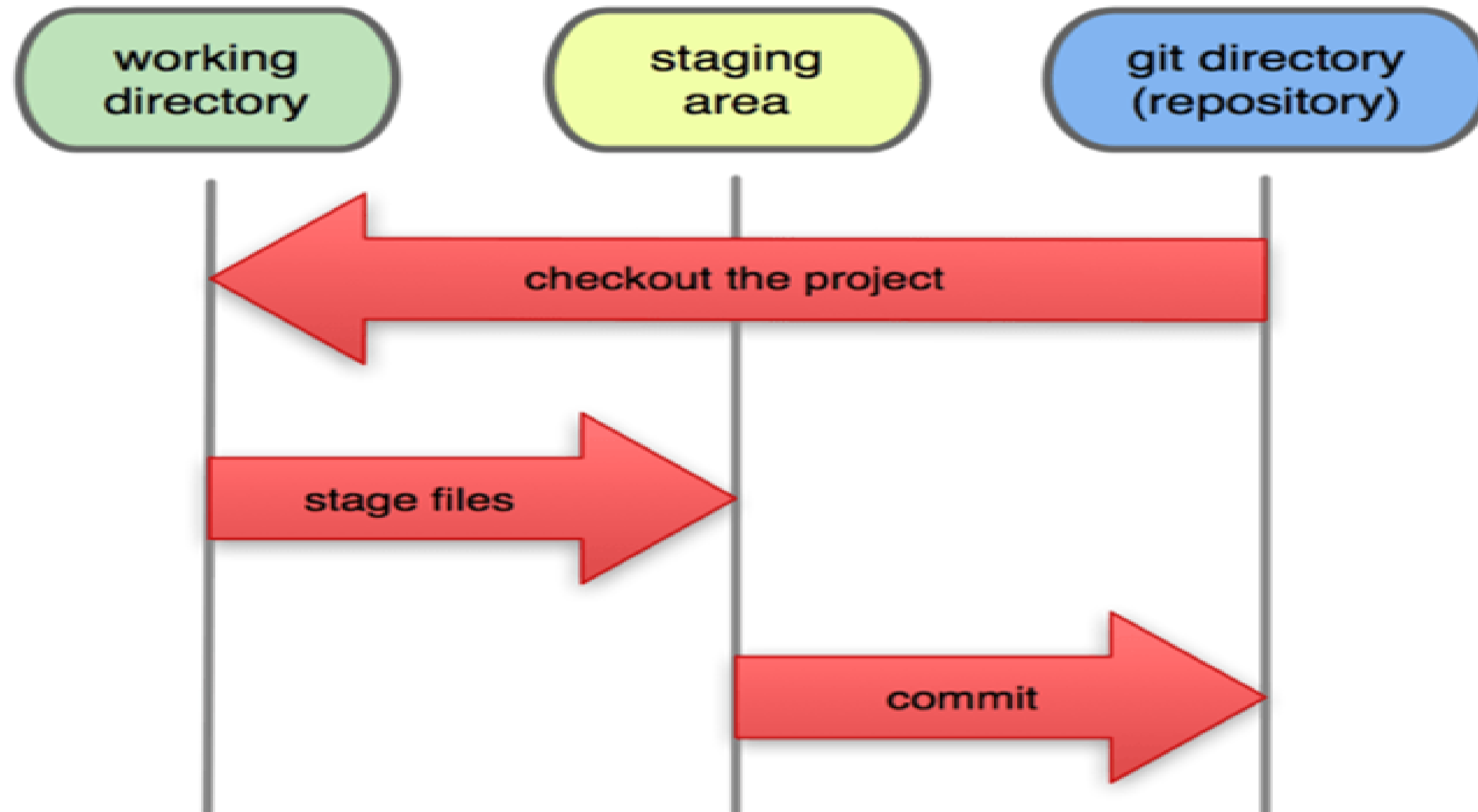
```
$git add
```

```
$git commit
```

```
$git log
```

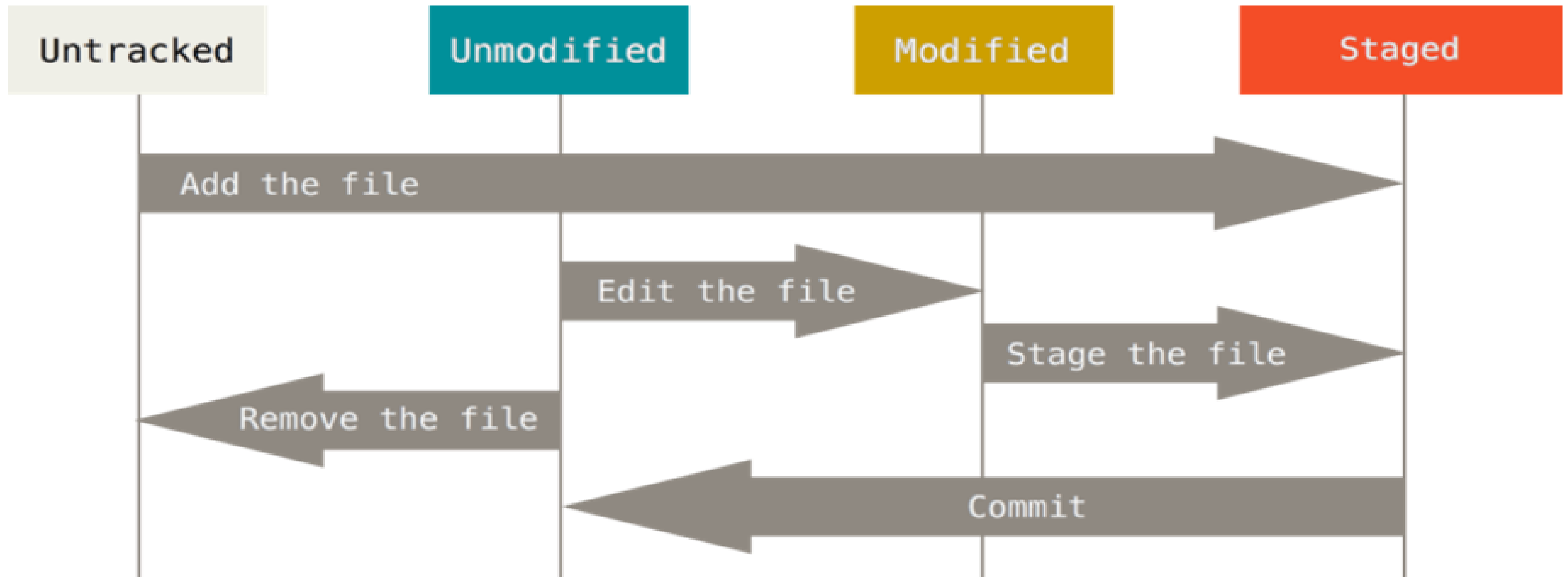
```
$git checkout
```

# Repositorios locales y remotos





# Seguimiento de archivos



# Git version 2.23.0

```
$git status
On branch master
Changes to be committed:
  (use "git restore --stage <file>..." to unstage)
    new file:   fourth_file.txt
    deleted:    second_file.txt
    renamed:    README.md -> README

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modify:     first_file.txt
```

# Versiones anteriores

```
$git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

new file: fourth\_file.txt

deleted: second\_file.txt

renamed: README.md -> README

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modify: first\_file.txt

# Recomendaciones

- Usar siempre que puedes el git status
- Usar las opciones que consideres necesarias para cada comando
- Usar de preferencia:

```
$git commit -m MENSAJE
```

- El mensaje del commit debe ser significativo, entendible y referirse a los cambios hechos
- Un ejemplo de un comando sobrecargado de opciones:

```
$git log --topo-order --all --graph --date=local --pretty=format: '%C(green)%h%C(reset) %><(55,trunc)%s%C(red)%d%C(reset)
```



# Alias

```
$git config --global alias.ALIASNAME COMANDO
```

## Ejemplo

```
$git config --global alias.last 'log -1 HEAD'
```

```
$git last
```

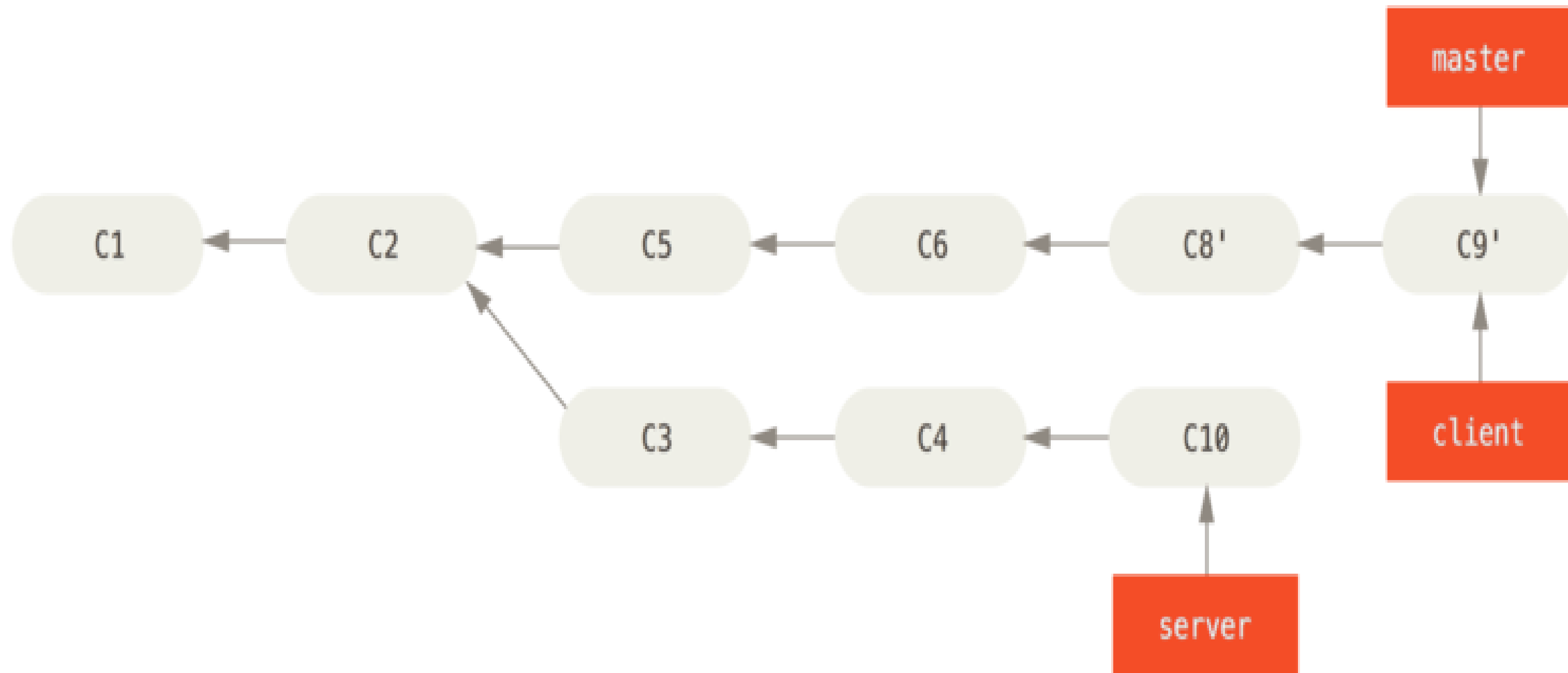
```
commit 45564654....
```

```
Author: Giro Pinto <email>
```

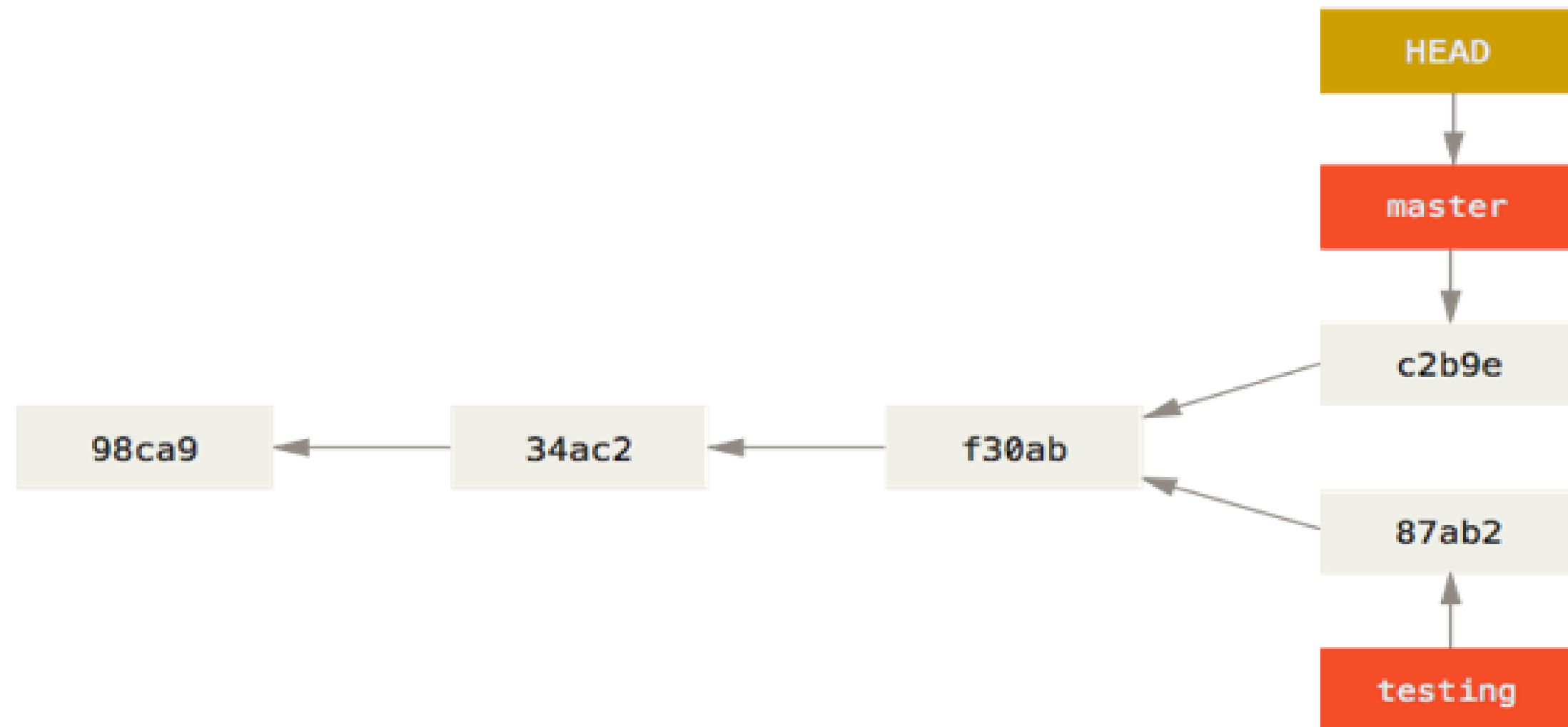
```
Date: Tue Aug 10 23:24:05 2020 +0800
```

```
Current head test
```

# Git Branching



# Git HEAD



# Comandos para realizar el branching

```
$git branch
```

```
$git branch NombreRama
```

```
$git checkout NombreRama
```

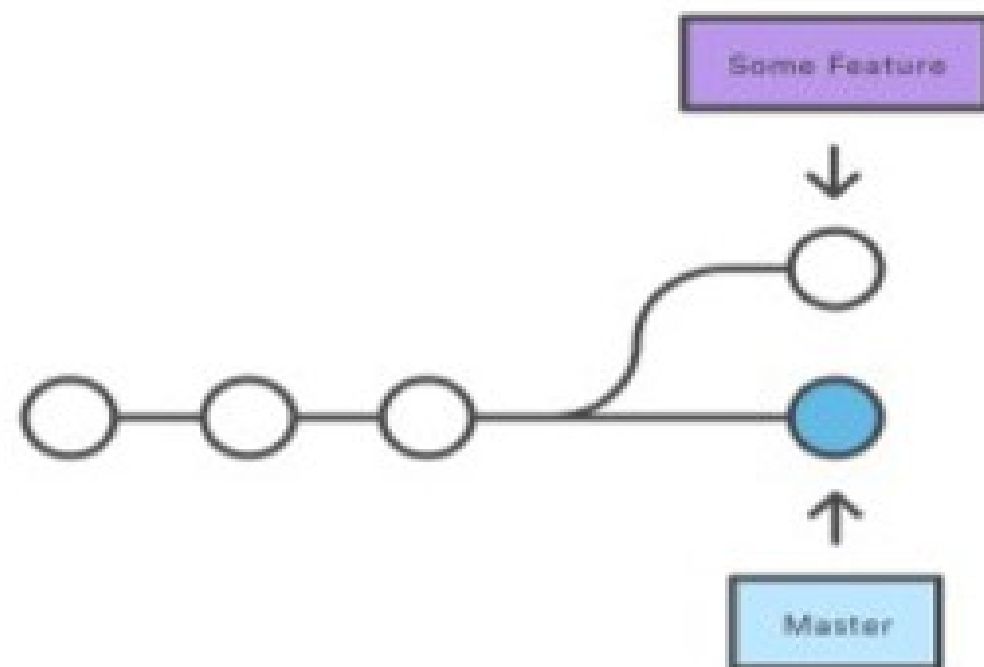
```
$git branch -d NombreRama
```

```
$git branch -m AntiguoNombre NuevoNombre
```



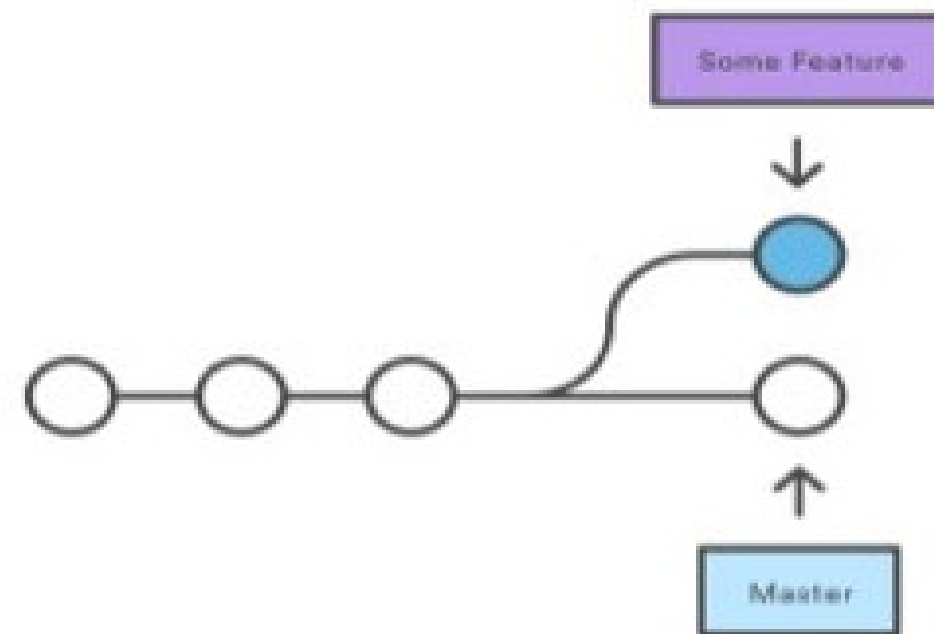
# Git checkout en acción

Checking Out Master



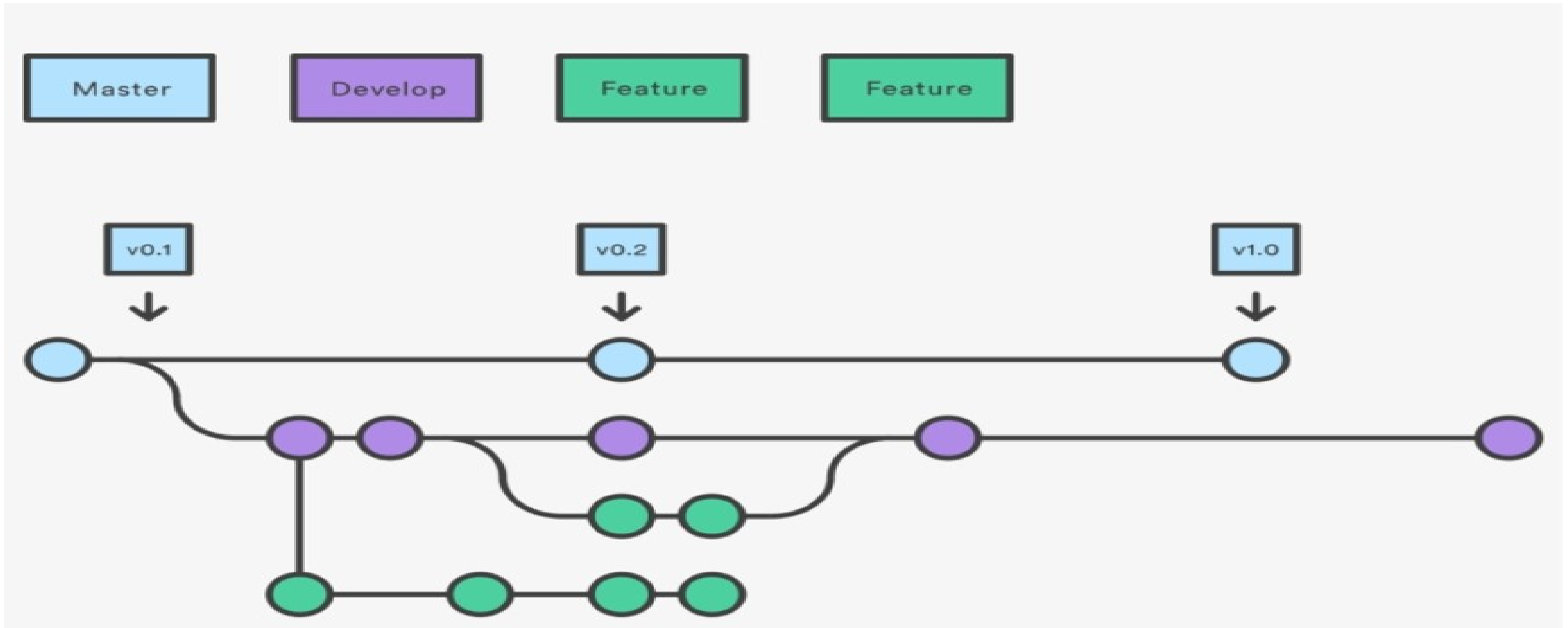
git checkout master

Checking Out Some Feature

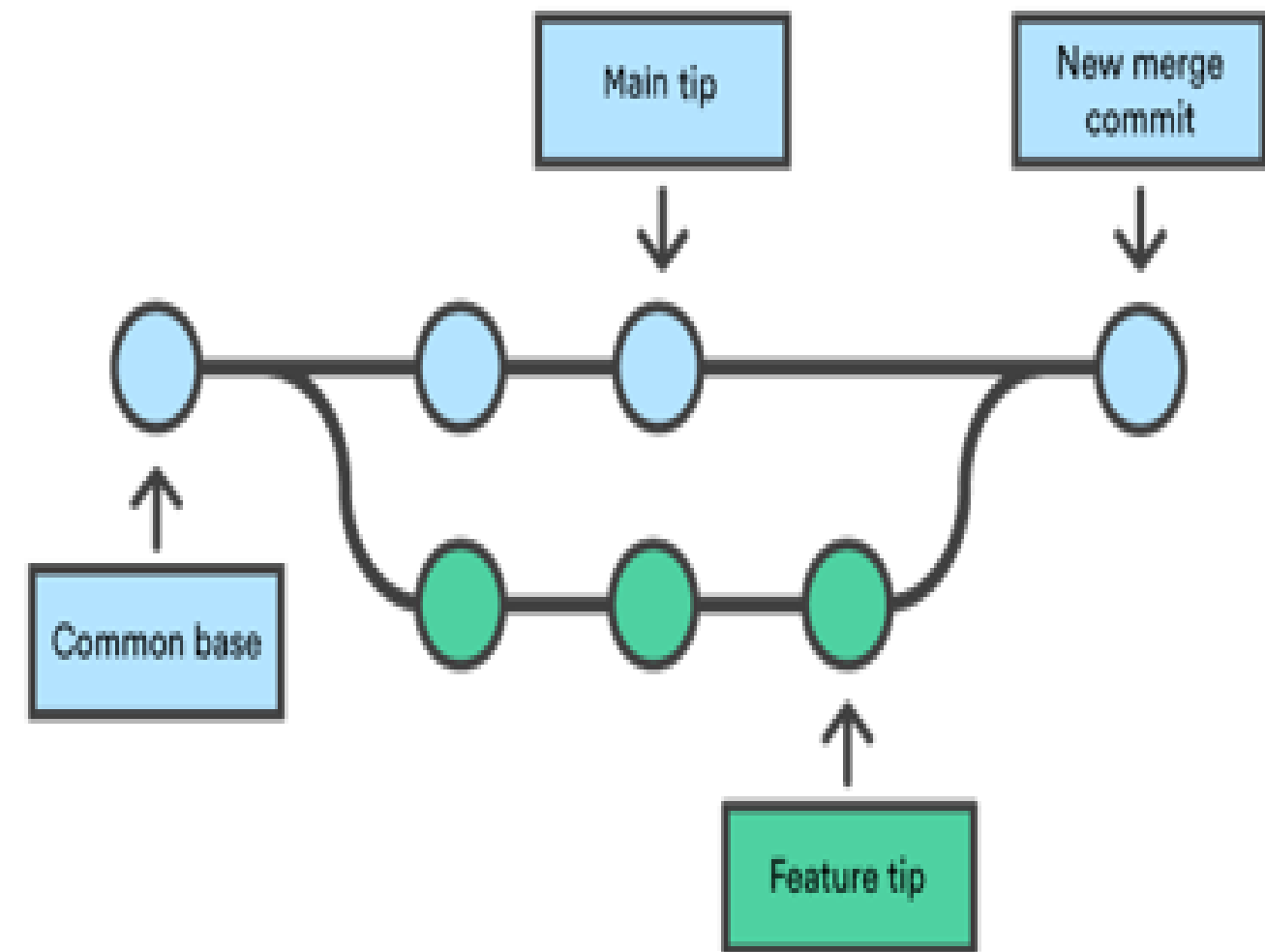
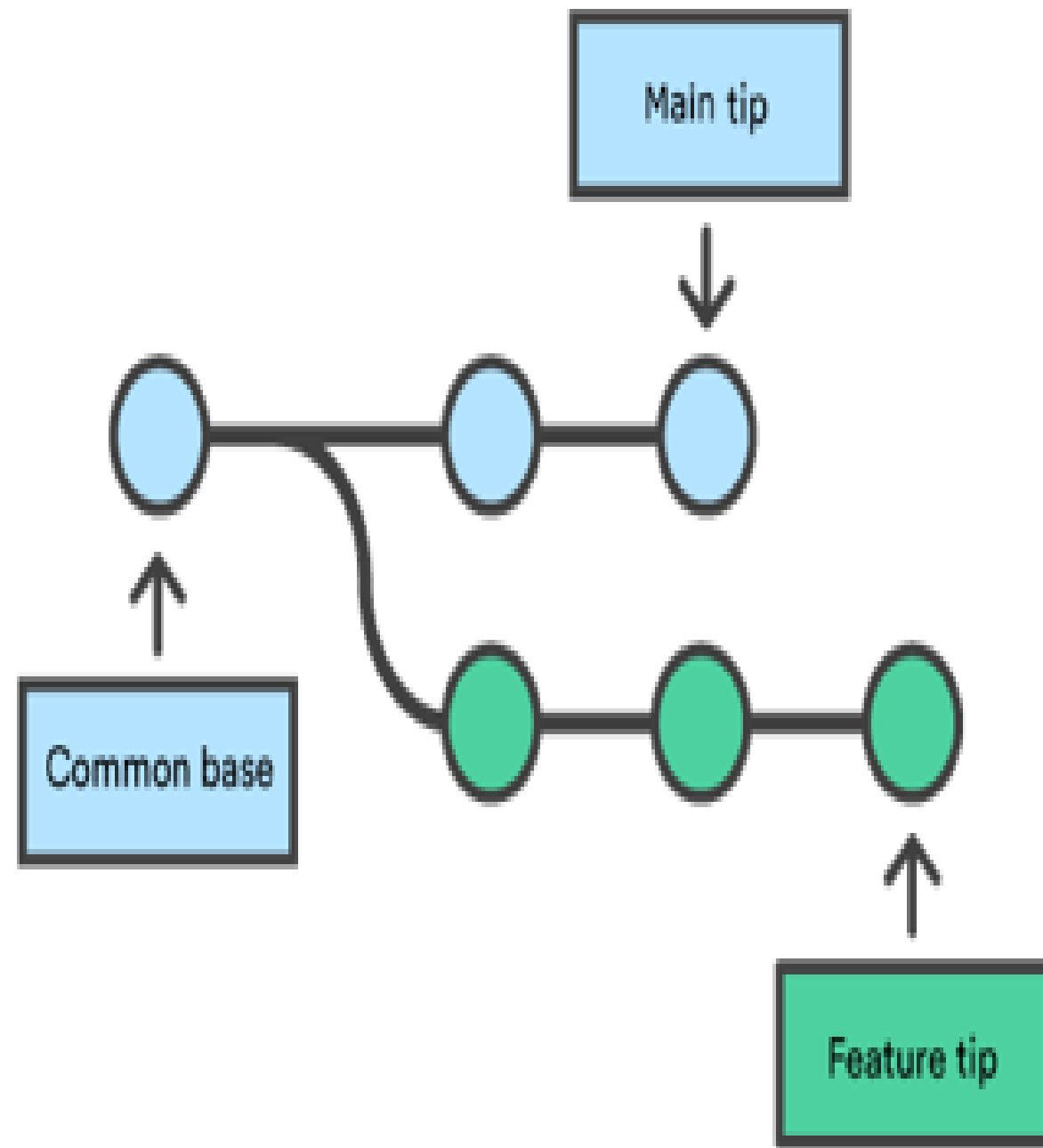


git checkout feature

# Git branching ejemplo

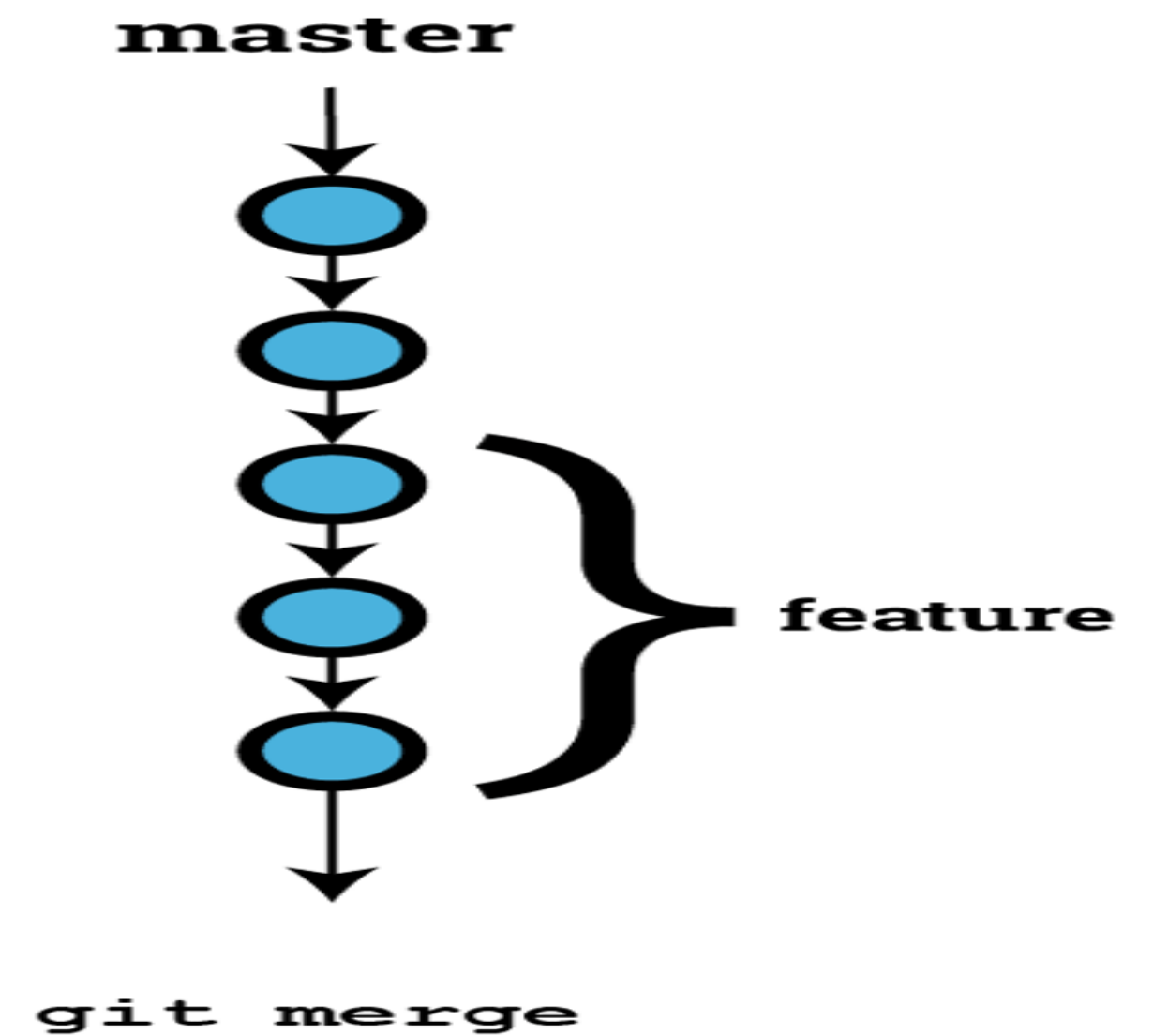
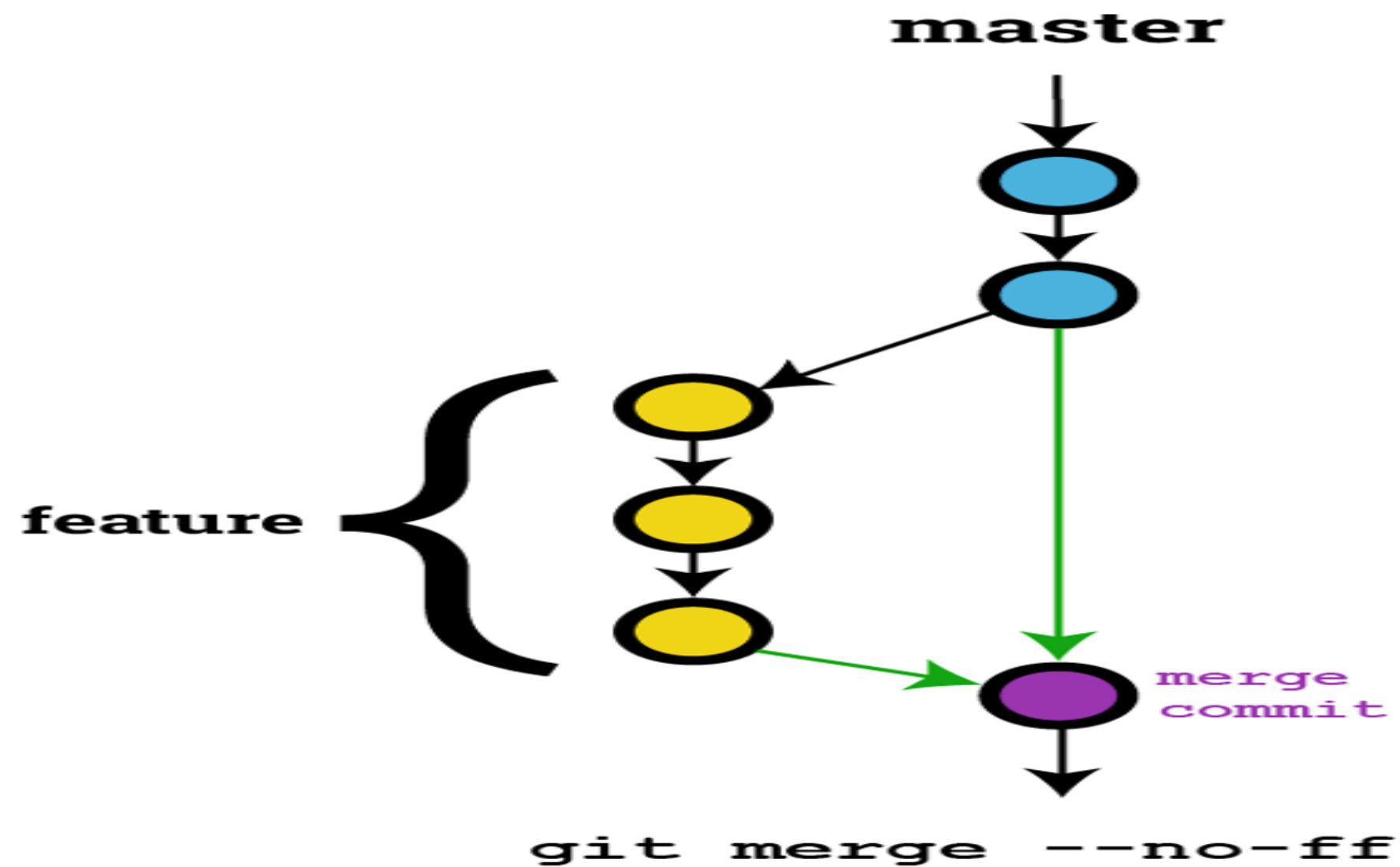


# Git merge



# Tipos de Merge

- Fast Forward Merge
- 3-Way-Merge





# Comandos para hacer Merge

```
$git checkout master / ForMergeBranch
```

```
$git merge MergingBranch
```

```
$git branch -d MergingBranch
```

```
$git merge --abort
```

```
$git merge --no-ff
```

# GitHub - GitLab - BitBucket



- GitHub Link
- GitLab Link
- BitBucket Link

# Clonar un repositorio en GitHub

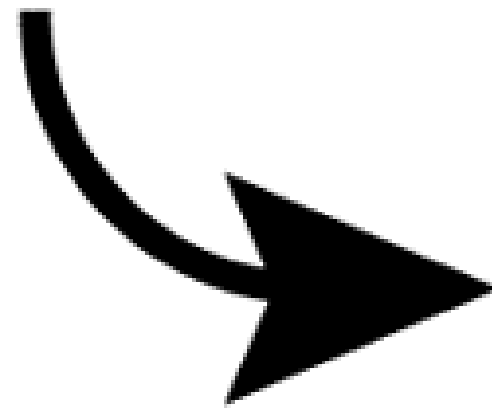
- Desde linea de comandos vía https

```
$git clone https://github.com/userName/repoName.git
```

- Desde linea de comandos vía SSH

```
$git clone https://github.com/userName/repoName.git
```

- Usando githubDesktop
- Descargar el repositorio (comprimido)
- Usando GitHubCLI



`git clone`





# Comandos para trabajar con remotos

```
$git remote add remoteName remoteUrl
```

```
$git remote
```

```
$git remote remove remoteName
```

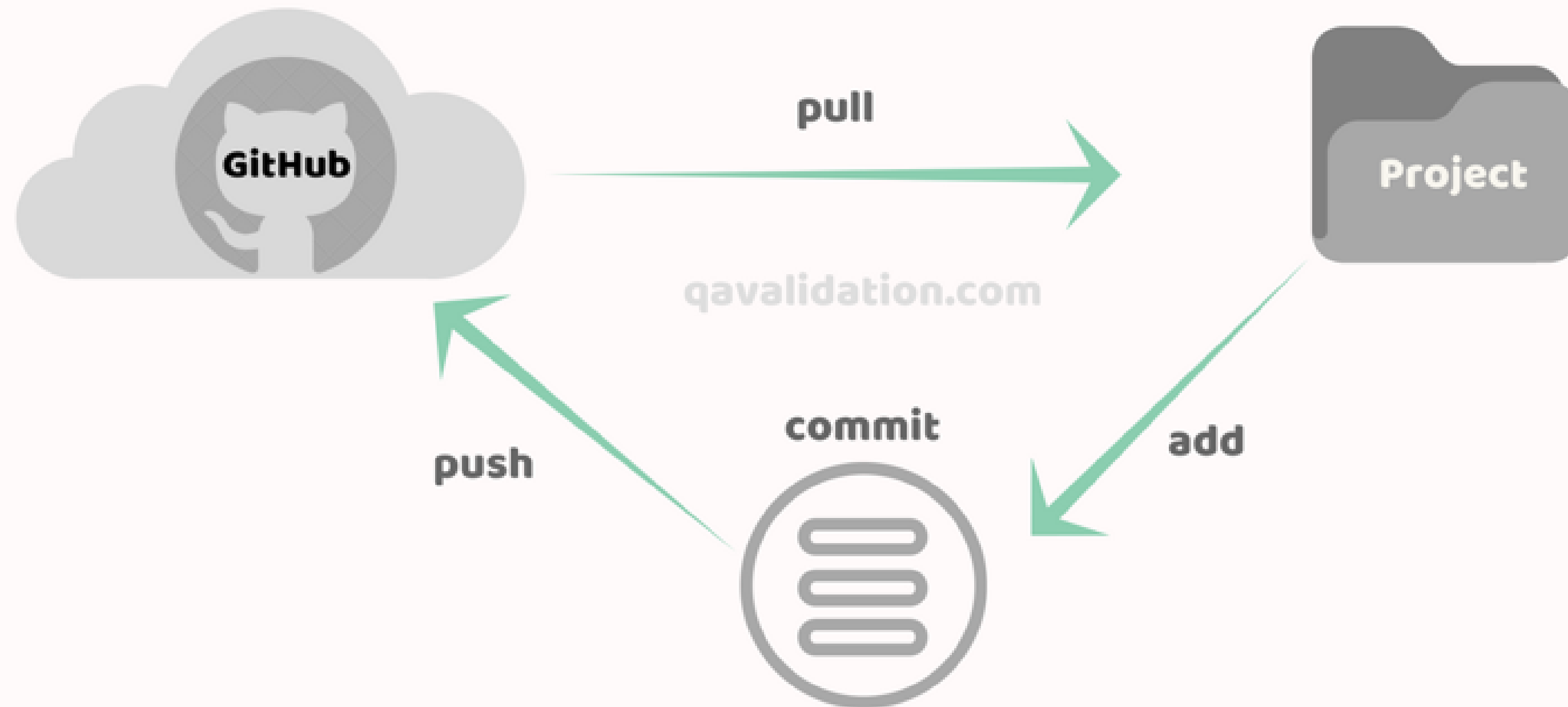
```
$git remote rename oldName newName
```

```
$git push remoteName branchName
```

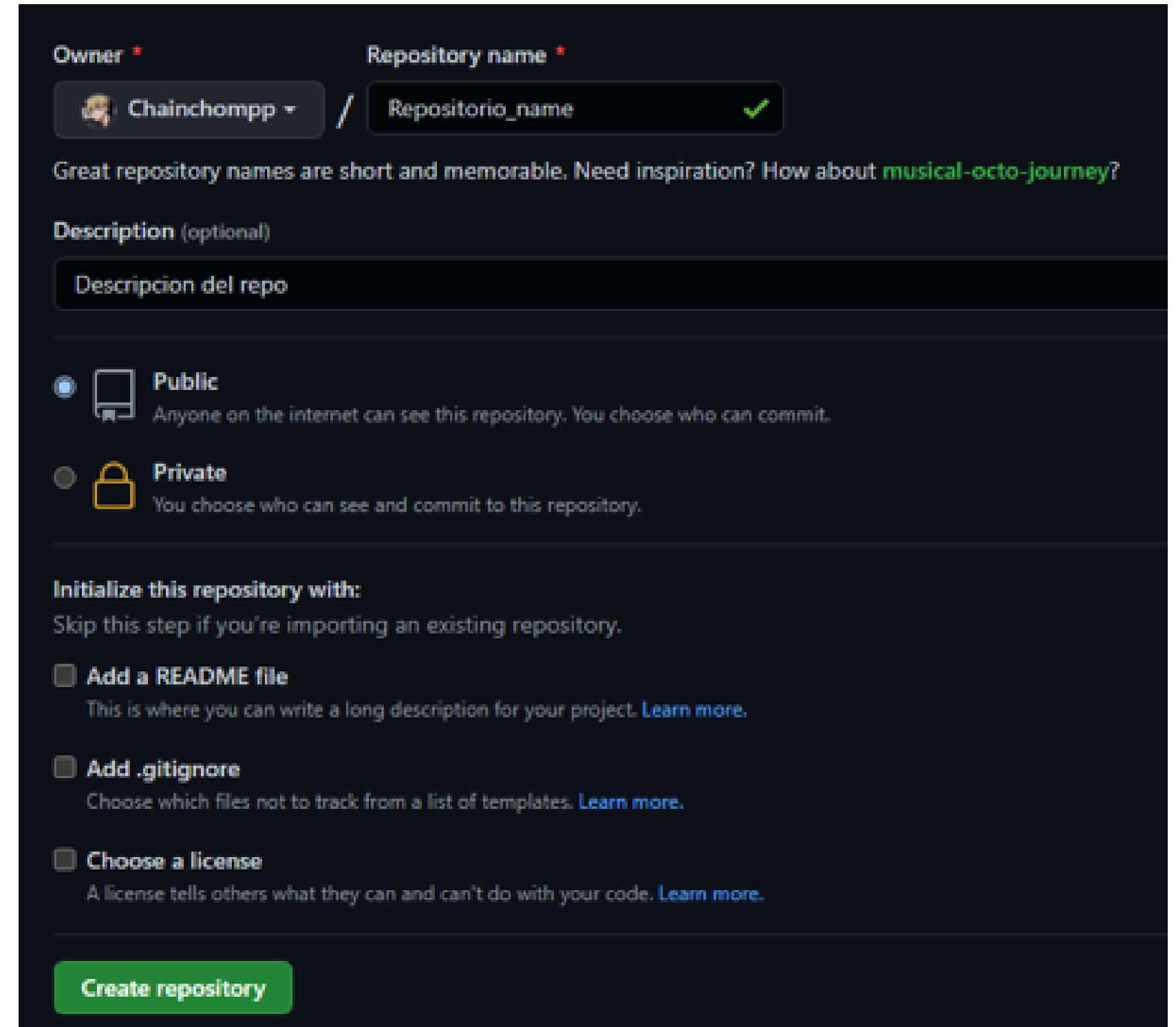
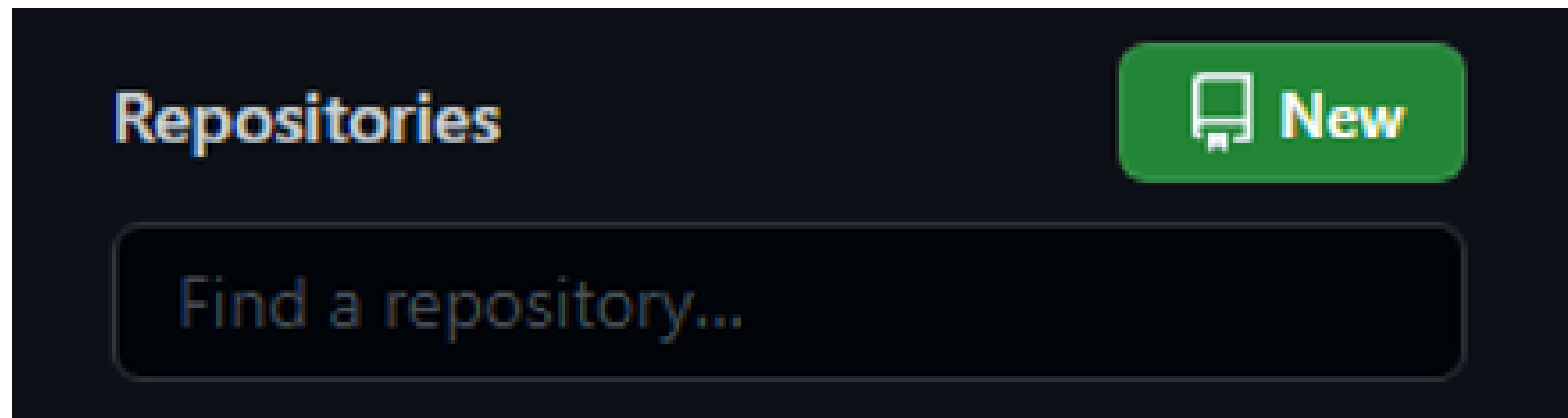
```
$git pull
```

```
$git fetch
```

# Git PUSH PULL



# Crear repositorios en GitHub

This screenshot displays the 'Create new repository' form on GitHub. At the top, there are two input fields: 'Owner' with a dropdown menu showing 'Chainchompp' and 'Repository name' with the text 'Repositorio\_name' and a green checkmark. Below these is a line of text: 'Great repository names are short and memorable. Need inspiration? How about musical-octo-journey?'. The 'Description (optional)' field contains the text 'Descripcion del repo'. Under the 'Visibility' section, the 'Public' option is selected with a radio button, accompanied by a repository icon and the text 'Anyone on the internet can see this repository. You choose who can commit.' The 'Private' option is unselected, accompanied by a lock icon and the text 'You choose who can see and commit to this repository.' The 'Initialize this repository with:' section includes three checkboxes: 'Add a README file' (with a description and a 'Learn more' link), 'Add .gitignore' (with a description and a 'Learn more' link), and 'Choose a license' (with a description and a 'Learn more' link'). At the bottom of the form is a large blue rounded rectangle button labeled 'Create repository'.

# Cambiar ramas remotas

```
$git branch -m oldName newName
```

```
$git push --set-upstream remoteName newName
```

```
$git push origin --delete oldName
```

# Arreglar Commits

```
$git commit --amend
```

# Deshacer Commits

```
$git reset --hard
```

```
$git reset --soft
```

# Git Diff

```
$git diff
```

## Ejemplo

```
$git diff
diff --git a/first_file.txt b/first_file.txt
index 0e3da6d..fe563b0 100644
--- a/first_file.txt
+++ b/first_file.txt
@@ -1,4 +1,4 @@
Este es mi primer mensaje:
"Hola"
Este es mi segundo mensaje:
-"Versionar es muy divertido"
+"Versionar es muy muy divertido"
```



# Git Merge Conflicts

colors.txt ×

src > colors.txt

1 red

Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes

2 <<<<<< HEAD (Current Change)

3 green

4 ||||| merged common ancestors

5 yellow

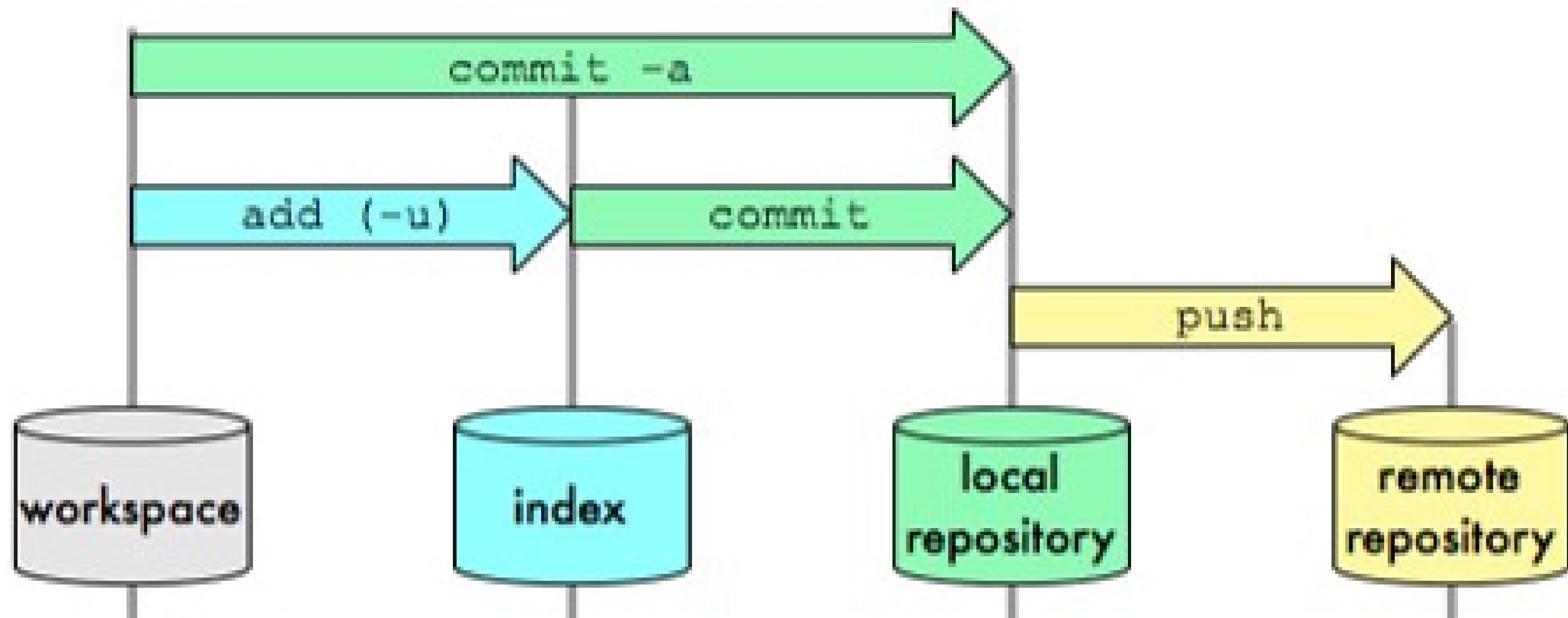
6 =====

7 white

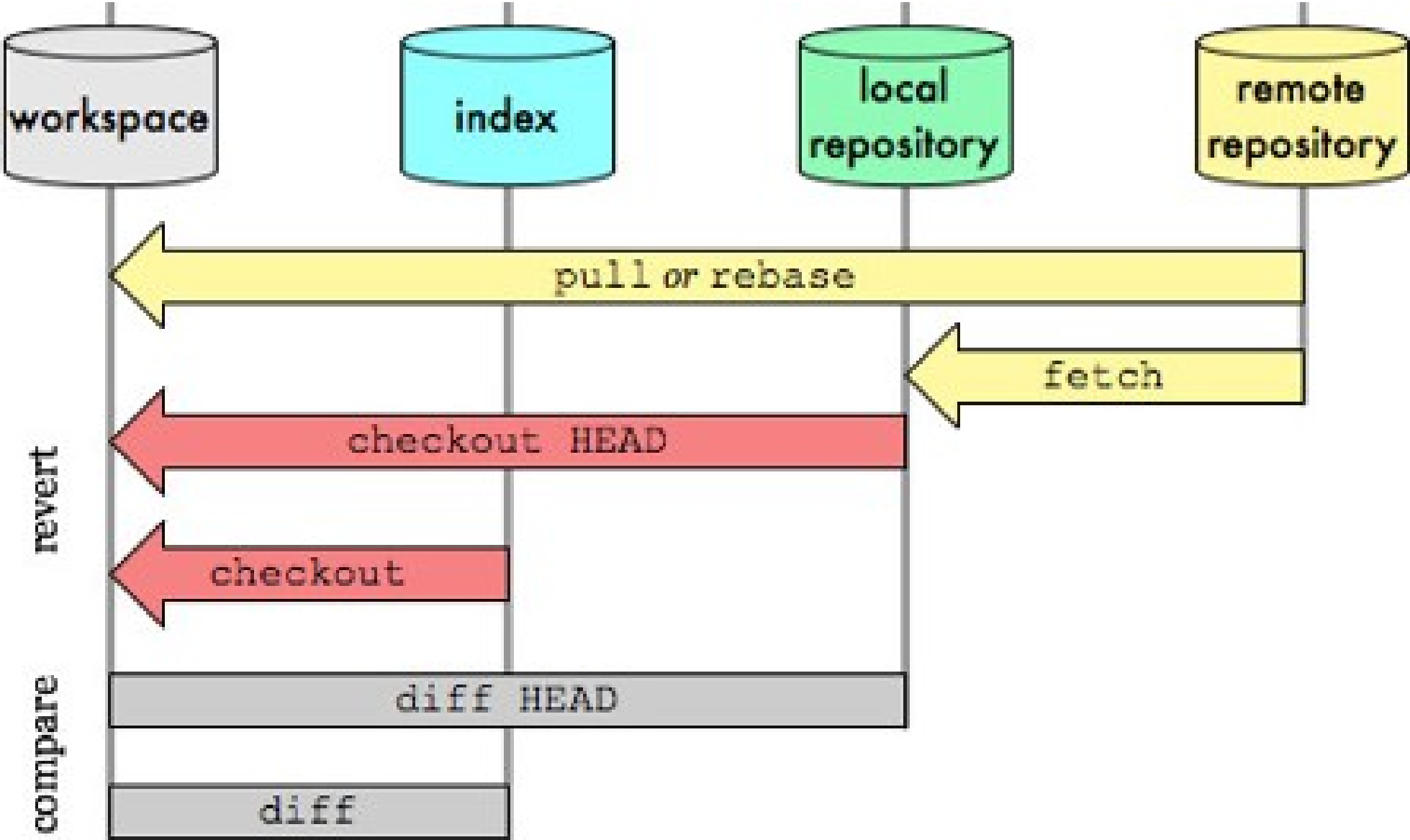
8 >>>>>> his-branch (Incoming Change)

9 blue

# Resumen



# Resumen



# Visual Studio Code

Link de instalación

