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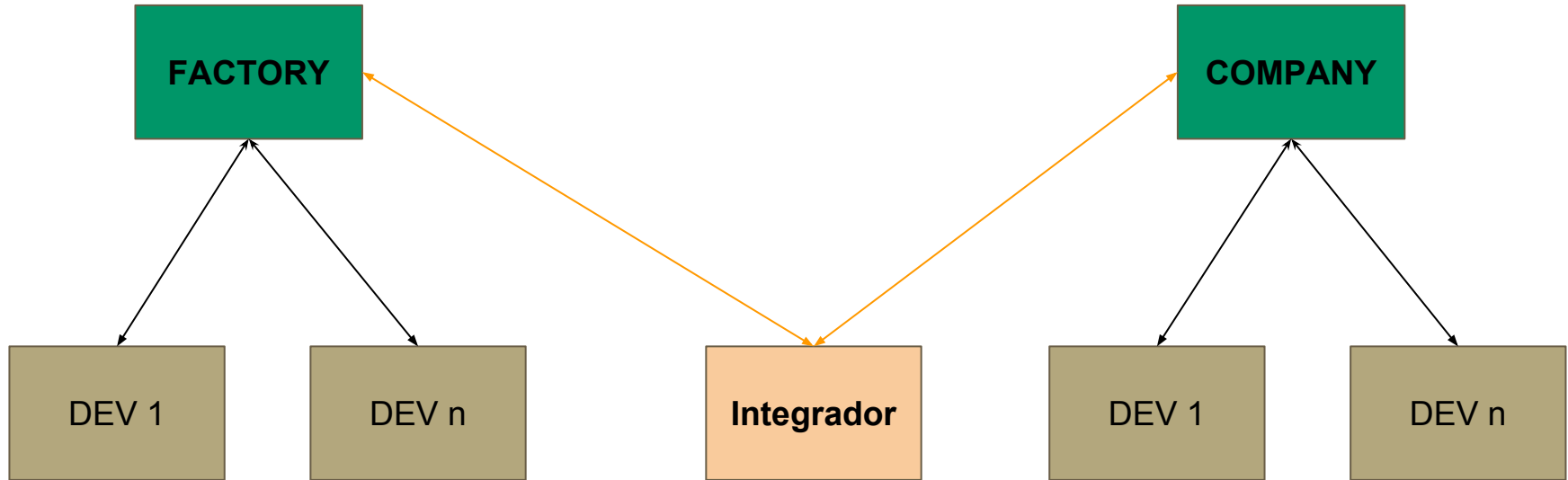
# Ejercicio Git

— Comandos comunes / Remotes —

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# Esquema de repositorios



# git clone

- git clone <https://github.com/vanecan/factory.git>
- git clone <https://github.com/vanecan/company.git>

```
vanessa@vanessa:~/curso$ git clone https://github.com/vanecan/company.git
Cloning into 'company'...
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
Checking connectivity... done.
vanessa@vanessa:~/curso$ ls
company
vanessa@vanessa:~/curso$ git clone https://github.com/vanecan/factory.git
Cloning into 'factory'...
remote: Counting objects: 4, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
Checking connectivity... done.
vanessa@vanessa:~/curso$ ls
company  factory
vanessa@vanessa:~/curso$
```

# git add

```
→ factory git:(master) nano test.rb
→ factory git:(master) x git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        test.rb

nothing added to commit but untracked files present (use "git add" to track)
→ factory git:(master) x git add test.rb
→ factory git:(master) x git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        new file:   test.rb

→ factory git:(master) x █
```

# git commit

```
→ factory git:(master) ✕ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   test.rb

→ factory git:(master) ✕ git commit -m "Imprime feature 1"
[master ffd4bbe] Imprime feature 1
 1 file changed, 1 insertion(+)
 create mode 100644 test.rb
→ factory git:(master) █
```

# git push

```
→ factory git:(master) git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
nothing to commit, working directory clean
→ factory git:(master) git push origin master
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 337 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/vanecan/factory.git
   f030ffd..ffd4bbe  master -> master
→ factory git:(master) █
```

# git gui

```
→ factory git:(master) x git commit -a -m "Se agrega feature 0"
[master 59c9a46] Se agrega feature 0
 1 file changed, 1 insertion(+)
→ factory git:(master) git push origin master
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 288 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local objects.
To https://github.com/vanecan/factory.git
   ffd4bbe..59c9a46  master -> master
→ factory git:(master) git gui
→ factory git:(master) █
```

# Repository - Visualize all branch history

The screenshot displays a graphical user interface for visualizing Git branch history. At the top, a branch diagram shows a green box labeled 'master' connected to an orange box labeled 'remotes/origin/master'. Below this, a list of commits is shown: 'Imprime feature 1' and 'Initial commit'. To the right, a commit message 'Se agrega feature 0' is visible, along with the author's name 'Vanessa Cañete <va...>'. Below the branch diagram, a search bar is present with the text 'SHA1 ID: 59c9a4625bef14ddf753ebf6d22e85abf5876a0e' and a 'Row 1 / 3' indicator. A 'Buscar' button is located below the search bar. The main content area shows commit details for the selected commit, including the author 'Vanessa Cañete <vanecanhete@gmail.com>', the committer 'Vanessa Cañete <vanecanhete@gmail.com>', the parent commit 'ffd4bbe7b4f31211ab915538205a89c1cc422cb6 (Imprime feature 1)', and the branch 'Rama: master, remotes/origin/master'. The commit message 'Se agrega feature 0' is displayed below the details. At the bottom, a diff view for 'test.rb' is shown, with a header 'index a821486..75a2991 100644' and a diff hunk starting with '@@ -1 +1,2 @@'. The diff shows a change from a single line to two lines: '+puts "Feature 0"' and 'puts "Feature 1"'. The interface includes navigation buttons like 'Diferencia', 'Versión antigua', and 'Versión nueva', and a 'Líneas de contexto' dropdown set to '3'.

master remotes/origin/master Se agrega feature 0

Imprime feature 1

Initial commit

Vanessa Cañete <va...>

Vanessa Cañete <va...>

Vanessa Cañete <va...>

SHA1 ID: 59c9a4625bef14ddf753ebf6d22e85abf5876a0e Row 1 / 3

Buscar ↓ ↑ revisión que contiene:

Buscar

◆ Diferencia ◆ Versión antigua ◆ Versión nueva Líneas de contexto: 3 ☐ Ignora cam

Autor: Vanessa Cañete <vanecanhete@gmail.com> 2016-10-12 20:37:41

Committer: Vanessa Cañete <vanecanhete@gmail.com> 2016-10-12 20:37:41

Padre: [ffd4bbe7b4f31211ab915538205a89c1cc422cb6](#) (Imprime feature 1)

Rama: [master](#), [remotes/origin/master](#)

Sigue-a:

Precede-a:

Se agrega feature 0

----- test.rb -----

index a821486..75a2991 100644

@@ -1 +1,2 @@

+puts "Feature 0"

puts "Feature 1"



# git branch / git checkout branch

```
→ factory git:(master) git branch develop  
→ factory git:(master) git checkout develop  
Switched to branch 'develop'  
→ factory git:(develop) █
```

# Modificación del desarrollador 1

```
GNU nano 2.4.2 File: test.rb
puts "Desarrollador 1 modificando test.rb"
puts "Feature 1"
puts "Desarrollador 1 - Hola mundo"
█
```

# Push branch develop

```
→ factory git:(master) git branch develop
→ factory git:(master) git checkout develop
Switched to branch 'develop'
→ factory git:(develop) nano test.rb
→ factory git:(develop) x git status
On branch develop
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)

        modified:   test.rb

no changes added to commit (use "git add" and/or "git commit -a")
→ factory git:(develop) x git commit -a -m "Cambios del desarrollador 1"
[develop 9d20de6] Cambios del desarrollador 1
 1 file changed, 3 insertions(+), 1 deletion(-)
→ factory git:(develop) git push origin develop
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 344 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local objects.
To https://github.com/vanecan/factory.git
 * [new branch]      develop -> develop
→ factory git:(develop) █
```

# Cambios del desarrollador 2 - Branch develop 2

```
GNU nano 2.4.2                               File: test.rb
puts "Feature 0"
puts "Feature 1"
puts "Feature 2 / Mensajería entre usuarios del pago movil"
```

```
→ factory git:(feature-2) x git commit -a -m "Cambios del desarrollador 2"
[feature-2 1e24f68] Cambios del desarrollador 2
 1 file changed, 1 insertion(+)
→ factory git:(feature-2) git push origin feature-2
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 338 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local objects.
To https://github.com/vanecan/factory.git
 * [new branch]      feature-2 -> feature-2
→ factory git:(feature-2) █
```

# Situación



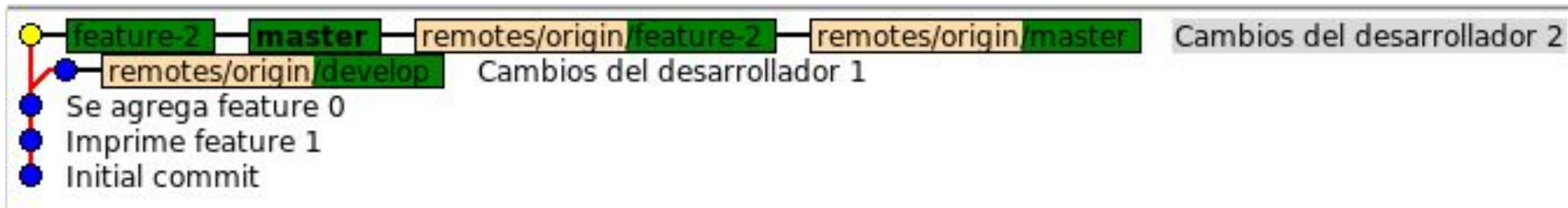
```
→ factory git:(develop) git merge master
Already up-to-date.
→ factory git:(develop) █
```

```
→ factory git:(feature-2) git merge master
Already up-to-date.
→ factory git:(feature-2) █
```

# feature-2/master \* master/feature-2

```
→ factory git:(feature-2) git push origin master
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Everything up-to-date
→ factory git:(feature-2) █
```

```
→ factory git:(master) git merge feature-2
Updating 59c9a46..1e24f68
Fast-forward
 test.rb | 1 +
 1 file changed, 1 insertion(+)
→ factory git:(master) █
```



# Actualización del branch master / Previo al Merge

```
→ factory git:(develop) git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
→ factory git:(master) git pull origin master
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 3 (delta 1), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/vanecan/factory
 * branch                master      -> FETCH_HEAD
    59c9a46..1e24f68      master      -> origin/master
Updating 59c9a46..1e24f68
Fast-forward
 test.rb | 1 +
 1 file changed, 1 insertion(+)
→ factory git:(master) █
```

# Merge - Conflicto

```
→ factory git:(develop) git merge master
Auto-merging test.rb
CONFLICT (content): Merge conflict in test.rb
Automatic merge failed; fix conflicts and then commit the result.
→ factory git:(develop) x
```

GNU nano 2.4.2

```
puts "Desarrollador 1 modificando test.rb"
puts "Feature 1"
<<<<<<< HEAD
puts "Desarrollador 1 - Hola mundo"

=====
puts "Feature 2 / Mensajería entre usuarios del pago movil"
>>>>>>> master
```



# Resolver los conflictos

```
GNU nano 2.4.2                               Fil
puts "Desarrollador 1 modificando test.rb"
puts "Feature 1"
puts "Feature 2 / Mensajería entre usuarios del pago movil"
```

```
→ factory git:(develop) ✕ git status
On branch develop
You have unmerged paths.
  (fix conflicts and run "git commit")

Unmerged paths:
  (use "git add <file>..." to mark resolution)

        both modified:   test.rb

no changes added to commit (use "git add" and/or "git commit -a")
→ factory git:(develop) ✕ git commit -a -m "Funcionando Feature 1 y 2"
[develop f5f7e91] Funcionando Feature 1 y 2
```

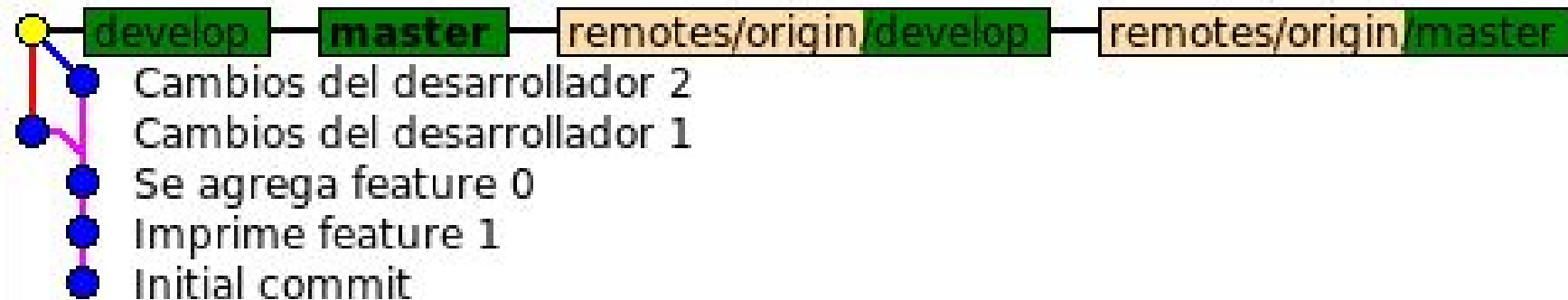
# Push / Merge Master / Merge Develop

```
→ factory git:(develop) git push origin develop
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 394 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local objects.
To https://github.com/vanecan/factory.git
   9d20de6..f5f7e91  develop -> develop
→ factory git:(develop) git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
→ factory git:(master) git merge develop
Updating 1e24f68..f5f7e91
Fast-forward
 test.rb | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
→ factory git:(master)
```

## Push del merge al master

```
→ factory git:(master) git push origin master
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/vanecan/factory.git
  1e24f68..f5f7e91  master -> master
→ factory git:(master) █
```

## Estado final



## git tag (annotated)

```
→ factory git:(master) git tag -a v1.0 -m "Versión con Feature 1 y 2"
→ factory git:(master) git tag
v1.0
→ factory git:(master) █
```

# Add Remote

```
→ company git:(master) git remote -v
origin https://github.com/vanecan/company.git (fetch)
origin https://github.com/vanecan/company.git (push)
→ company git:(master) git remote add factory https://github.com/vanecan/factory.git
→ company git:(master) git remote -v
factory https://github.com/vanecan/factory.git (fetch)
factory https://github.com/vanecan/factory.git (push)
origin https://github.com/vanecan/company.git (fetch)
origin https://github.com/vanecan/company.git (push)
→ company git:(master) █
```

# git pull factory master

```
→ company git:(master) git pull factory master
warning: no common commits
remote: Counting objects: 19, done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 19 (delta 7), reused 11 (delta 2), pack-reused 0
Unpacking objects: 100% (19/19), done.
From https://github.com/vanecan/factory
 * branch            master      -> FETCH_HEAD
 * [new branch]      master      -> factory/master
Merge made by the 'recursive' strategy.
 README.md | 2 ++
 test.rb   | 3 +++
 2 files changed, 5 insertions(+)
 create mode 100644 README.md
 create mode 100644 test.rb
→ company git:(master) █
```

# git push origin master

```
→ company git:(master) git status
On branch master
Your branch is ahead of 'origin/master' by 7 commits.
  (use "git push" to publish your local commits)
nothing to commit, working directory clean
```

```
→ company git:(master) git push origin master
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 19, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (16/16), done.
Writing objects: 100% (19/19), 1.74 KiB | 0 bytes/s, done.
Total 19 (delta 7), reused 0 (delta 0)
remote: Resolving deltas: 100% (7/7), done.
To https://github.com/vanecan/company.git
  1a4c414..330e91f master -> master
company git:(master)
```



# Estado de Company



# Ejercicio

- Dividirse en dos equipos: **factory** y **company**
- Crear la versión 1.2 en **factory**
  - Agregar sus nombres a test.rb en un branch distinto al master
- Crear la versión 1.1 en **company**
  - Agregar sus nombres a test.rb en un branch distinto al master
- Actualizar **company** con lo que tiene factory (version 1.2)
- Actualizar **factory** con lo que tiene **company**.



# Add Company remote to Factory

```
→ factory git:(master) git remote -v
origin https://github.com/vanecan/factory.git (fetch)
origin https://github.com/vanecan/factory.git (push)
→ factory git:(master) git remote add company https://github.com/vanecan/company.git
→ factory git:(master) git remote -v
company https://github.com/vanecan/company.git (fetch)
company https://github.com/vanecan/company.git (push)
origin https://github.com/vanecan/factory.git (fetch)
origin https://github.com/vanecan/factory.git (push)
→ factory git:(master) █
```

# Fetch Company Master

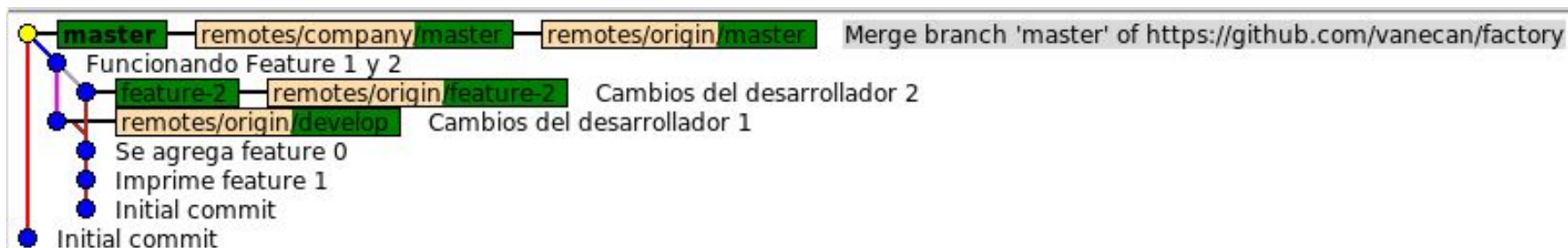
```
→ factory git:(master) git fetch company master
remote: Counting objects: 6, done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 1), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (6/6), done.
From https://github.com/vanecan/company
 * branch                master      -> FETCH_HEAD
 * [new branch]          master      -> company/master
→ factory git:(master) █
```

# Merge Factory/Master con Company/Master

```
➤ factory git:(master) git merge company/master
Updating 1e24f68..330e91f
Fast-forward
 test.rb | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
➤ factory git:(master) █
```

```
➤ factory git:(master) git push origin master
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 439 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/vanecan/factory.git
 f5f7e91..330e91f master -> master
➤ factory git:(master) █
```

# Sincronizados



# factory - git push origin --tag

```
→ factory git:(master) git push origin --tag
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 1, done.
Writing objects: 100% (1/1), 184 bytes | 0 bytes/s, done.
Total 1 (delta 0), reused 0 (delta 0)
To https://github.com/vanecan/factory.git
 * [new tag]          v1.0 -> v1.0
→ factory git:(master) █
```



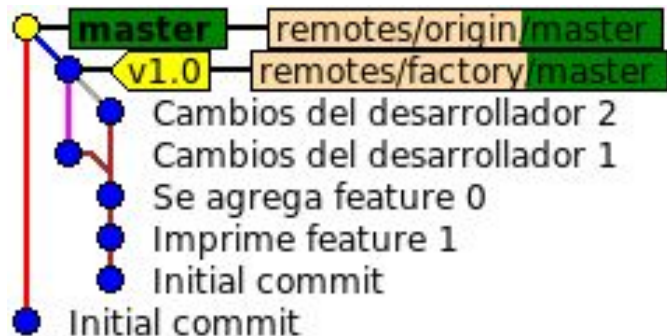
# Pull tag

```
→ factory git:(master) git pull origin master --tag
remote: Counting objects: 1, done.
remote: Total 1 (delta 0), reused 1 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), done.
From https://github.com/vanecan/factory
 * branch          master      -> FETCH_HEAD
 * [new tag]       v1.0        -> v1.0
Already up-to-date.
→ factory git:(master) █
```

# Push tag to remote

```
→ factory git:(master) git push company --tag
Username for 'https://github.com': vanecan
Password for 'https://vanecan@github.com':
Counting objects: 1, done.
Writing objects: 100% (1/1), 184 bytes | 0 bytes/s, done.
Total 1 (delta 0), reused 0 (delta 0)
To https://github.com/vanecan/company.git
 * [new tag]          v1.0 -> v1.0
```

# Estado en Company



Merge branch 'master' of <https://github.com/vanecan/factory>  
Funcionando Feature 1 y 2

## Lectura recomendada

<https://git-scm.com/book/en/v2/Distributed-Git-Distributed-Workflows>

