

# Guía rápida de Git en modo gráfico

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Universidad de Sevilla

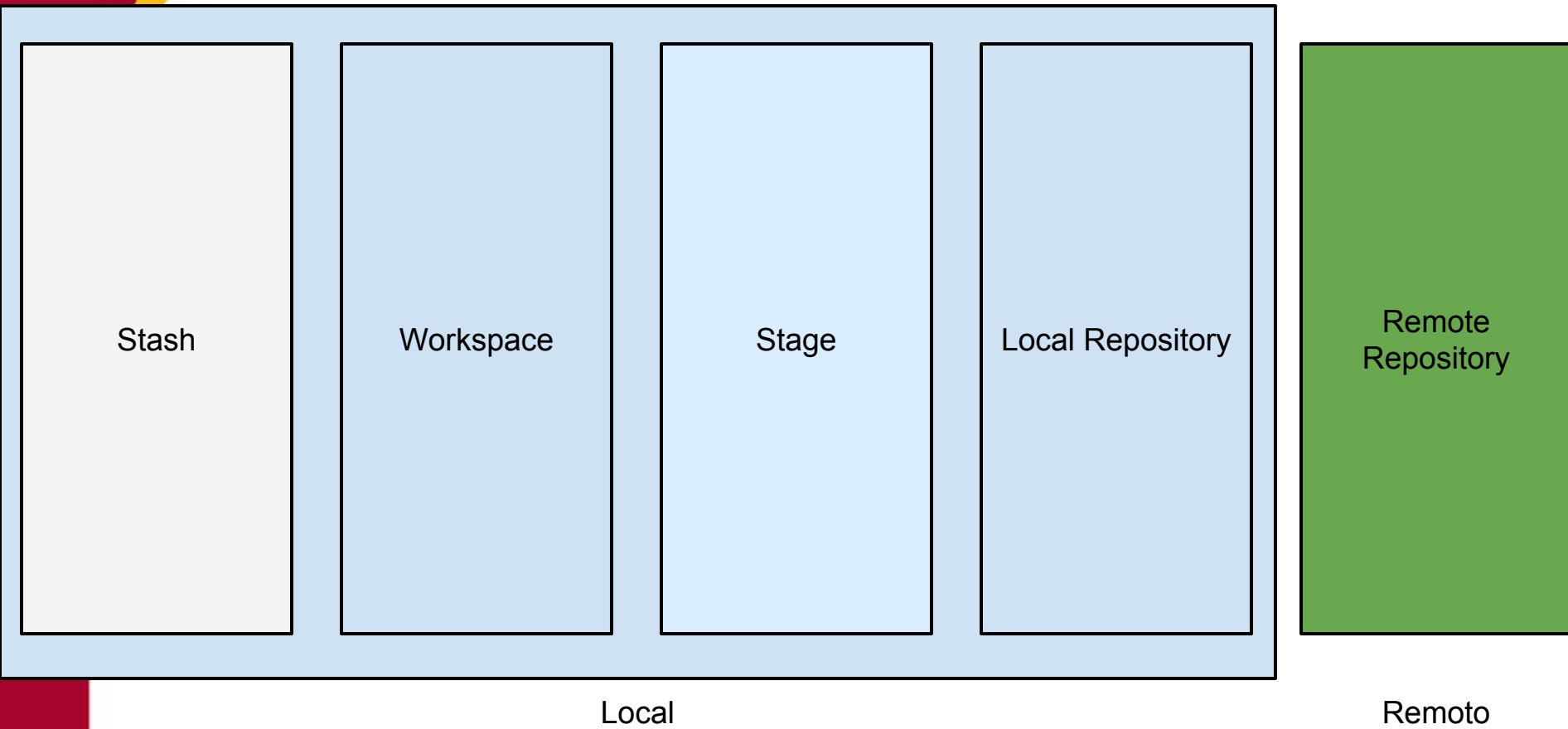
# Contenido

- Áreas de git
- Clonar el repositorio
- Configurar git
- Añadir ficheros al stage
- Creando commits
- Push
- Pull = Fetch from origin + Merge local
- Resolución de conflictos
- Revertir errores usando checkout

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## Áreas



## Descripción

Espacio para esconder cambios temporalmente

Stash

Carpeta normal en nuestro ordenador

Workspace

Caché de los cambios que se añadirán al repo local

Stage

Repositorio local en nuestra máquina

Local Repository

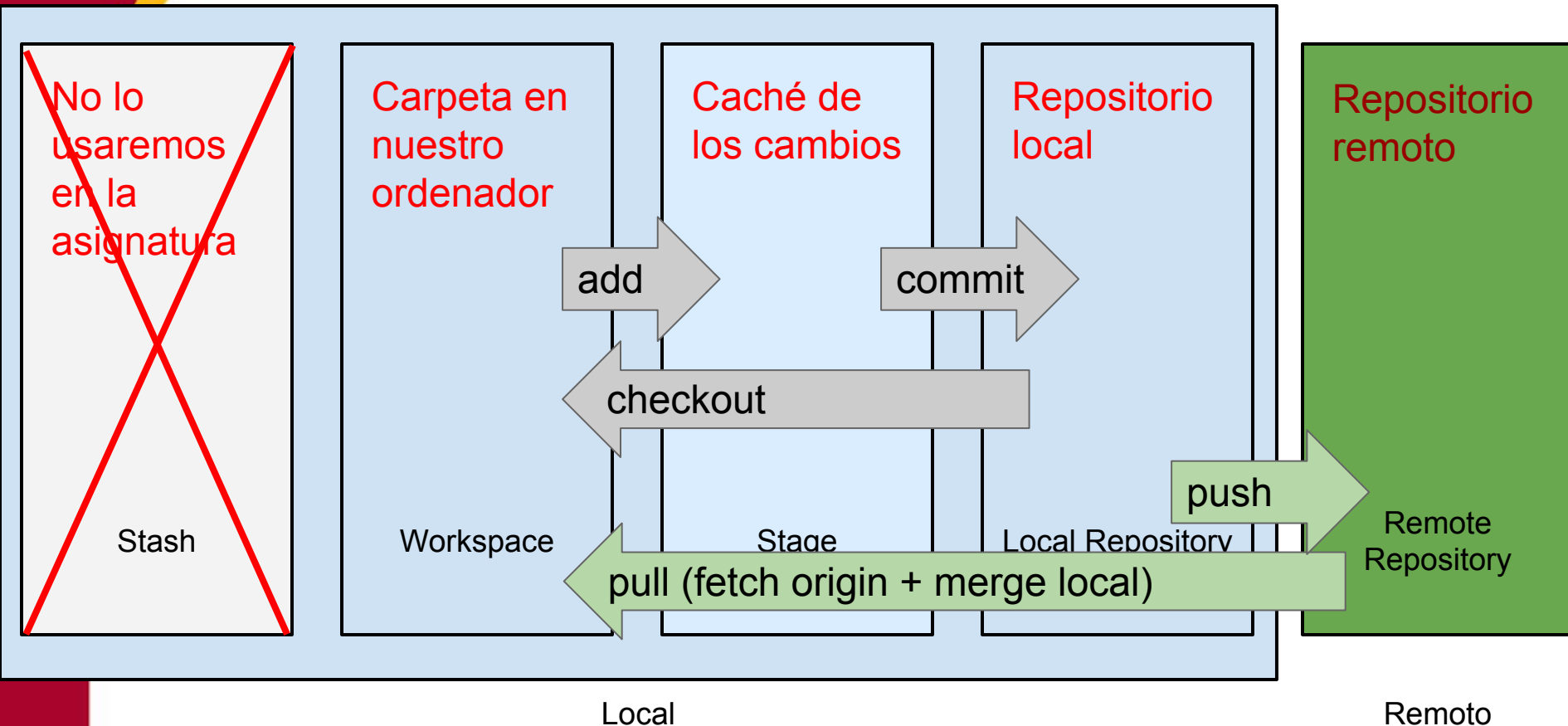
Repositorio externo, accesible por todos los miembros del grupo

Remote Repository

Local

Remoto

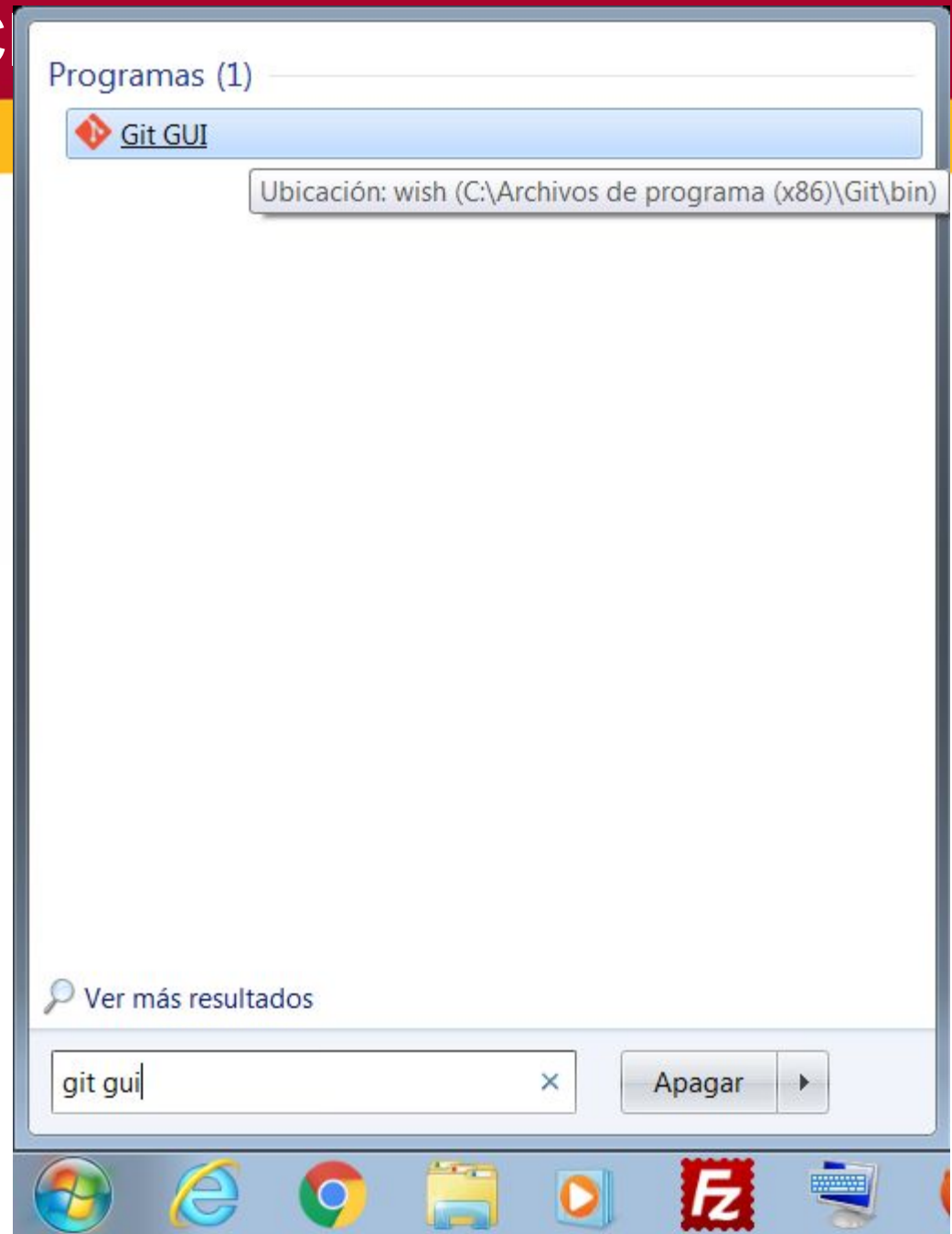
## Comandos



# Contenido

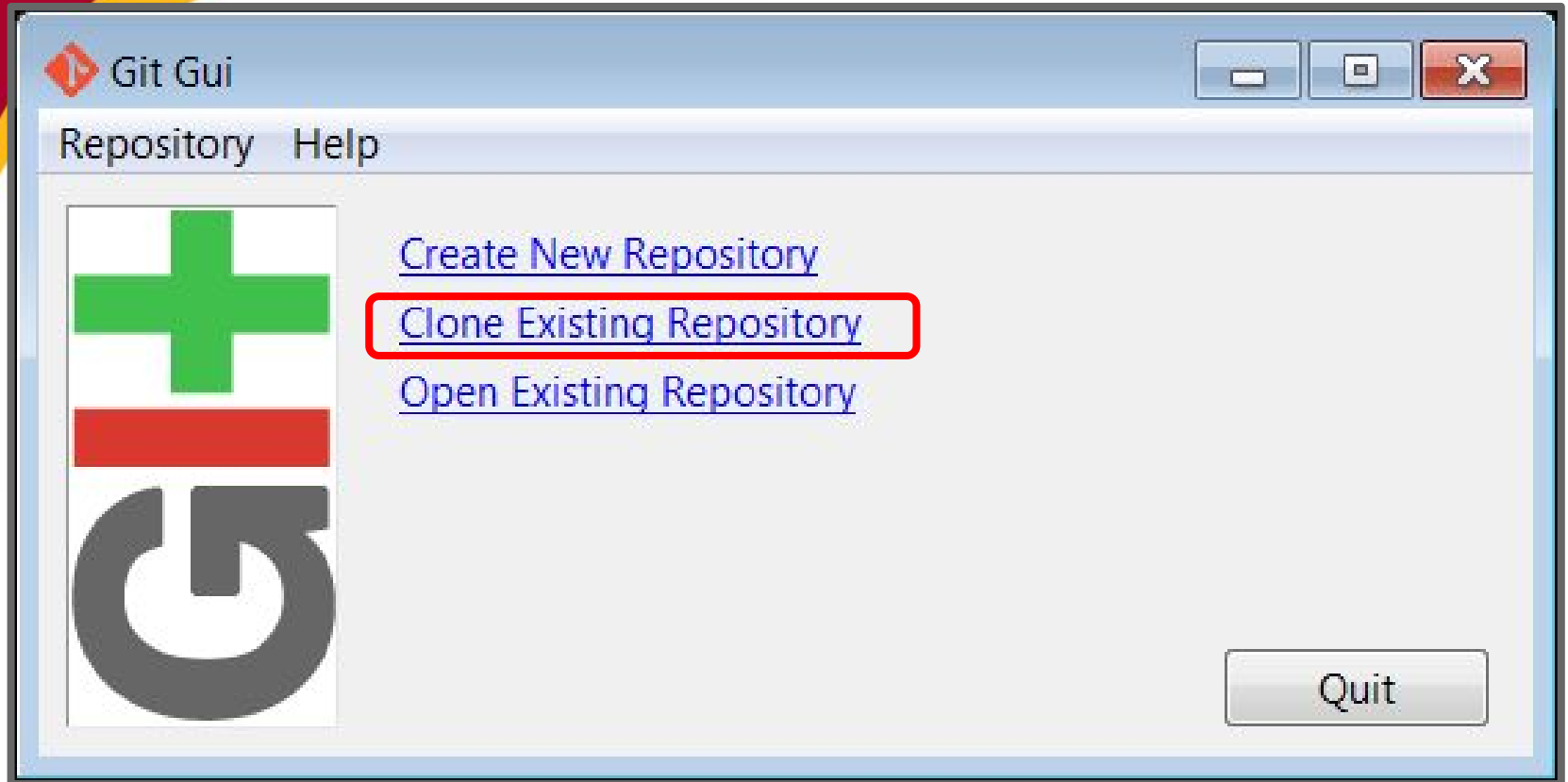
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# Abrimos Git GUI

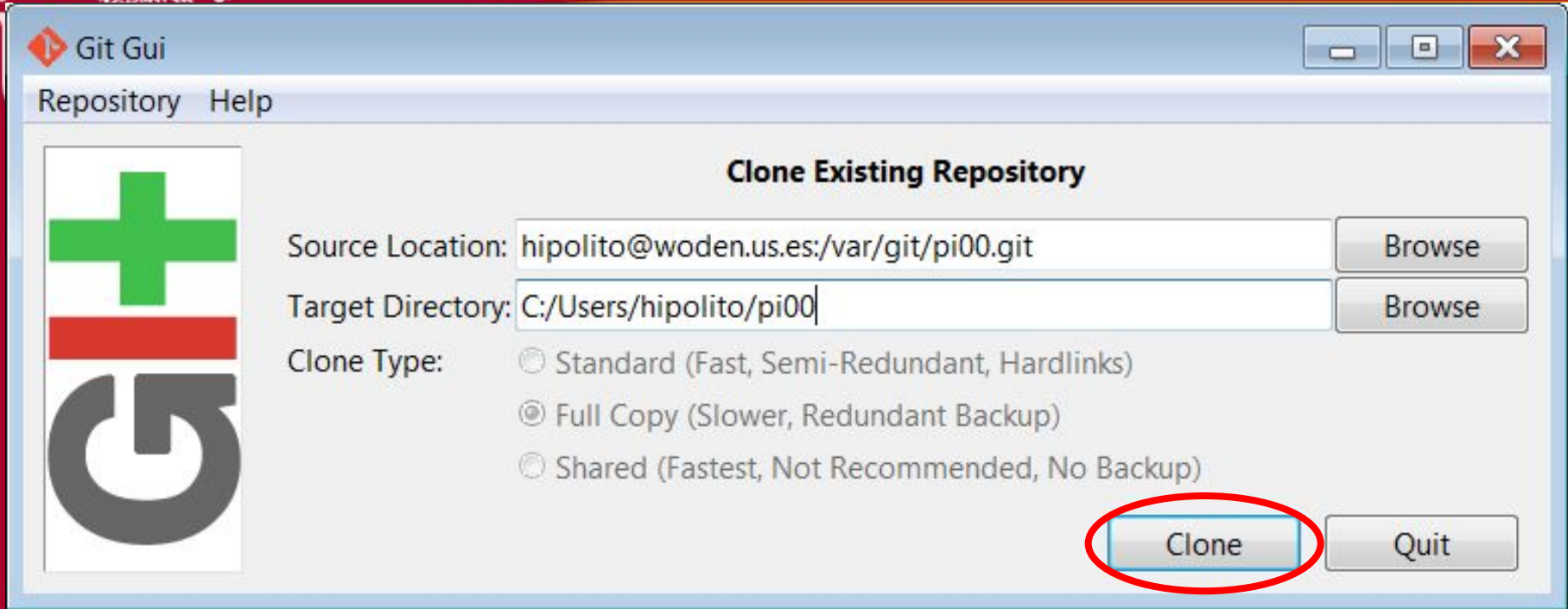




# Clonar el repo

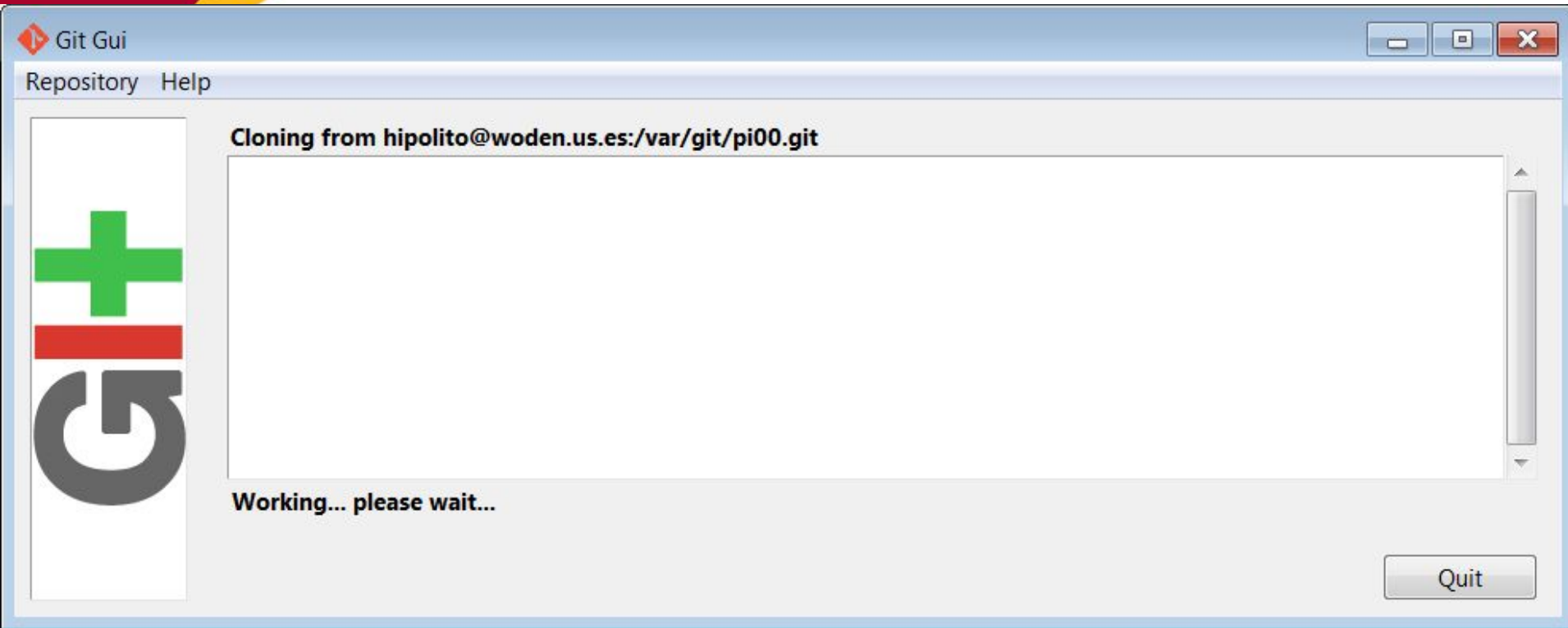


# Clonar el repo

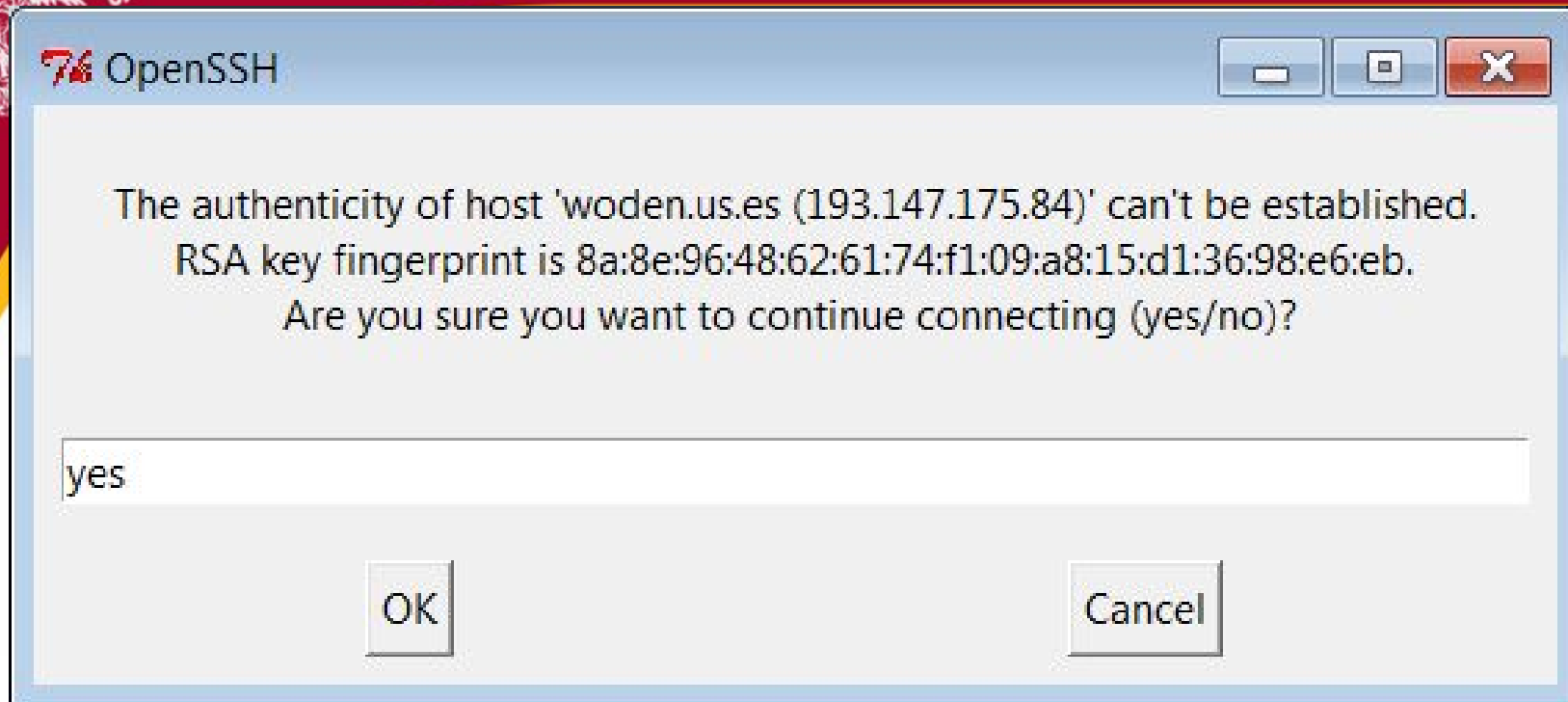


- Source es `usuario@servidor:ruta_al_repo`
- Cambia `hipolito` por tu usuario y `pi00.git` por el repositorio de tu grupo
- El target directory será creado al clonar el repositorio

# Clonar el repo

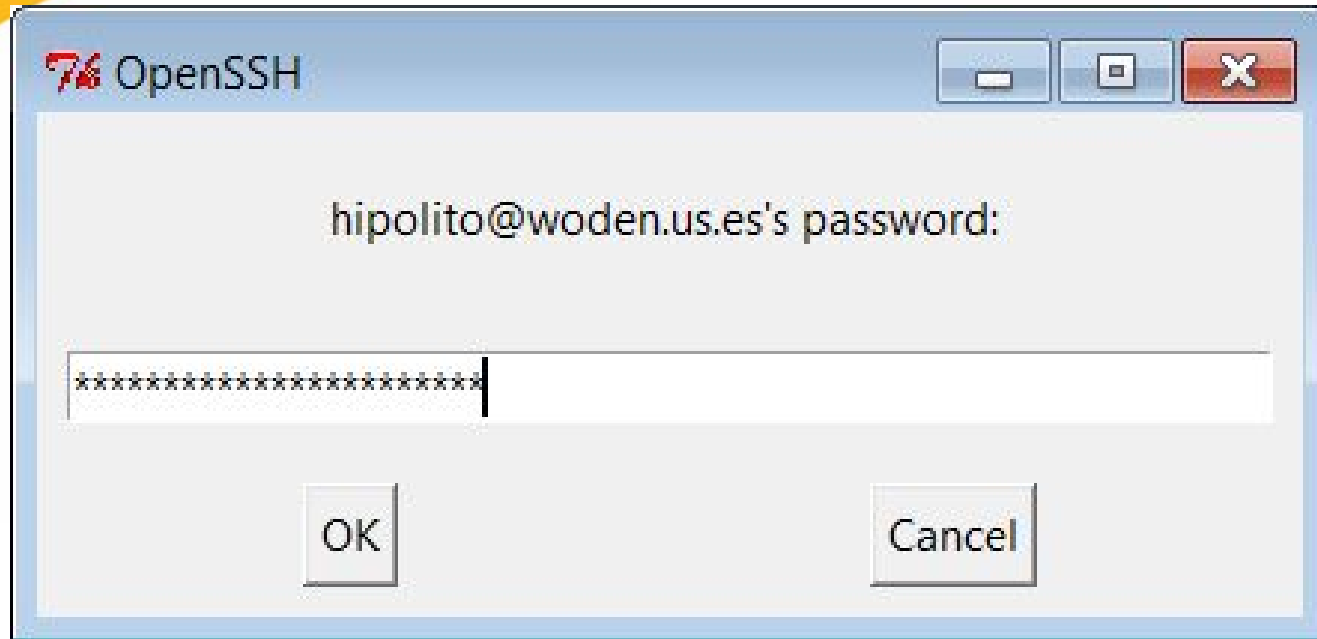


# Clonar el repo

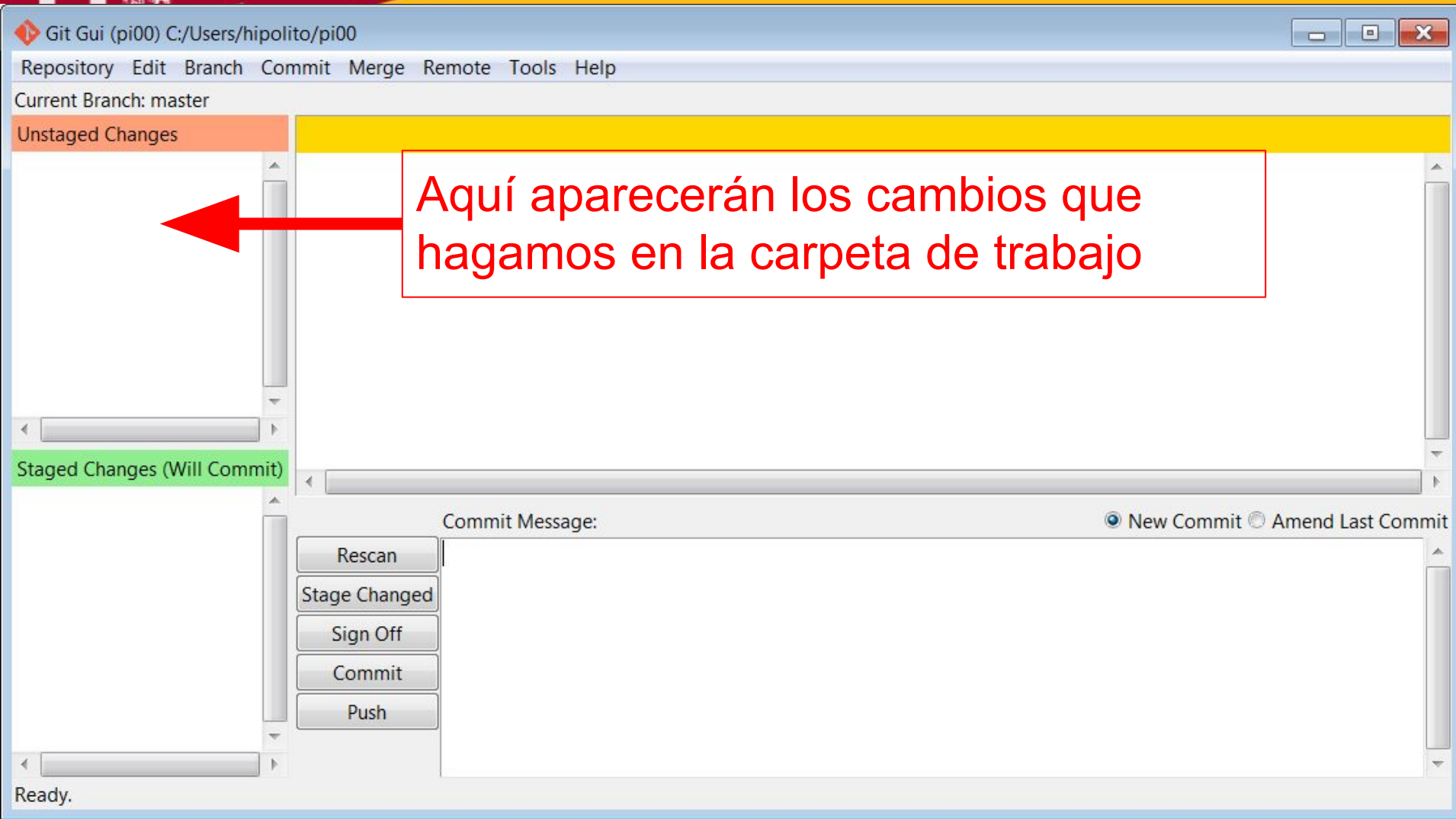


Este mensaje sólo lo veremos la primera vez que conectemos con un servidor (en nuestro caso, el servidor es woden.us.es)

# Clonar el repo

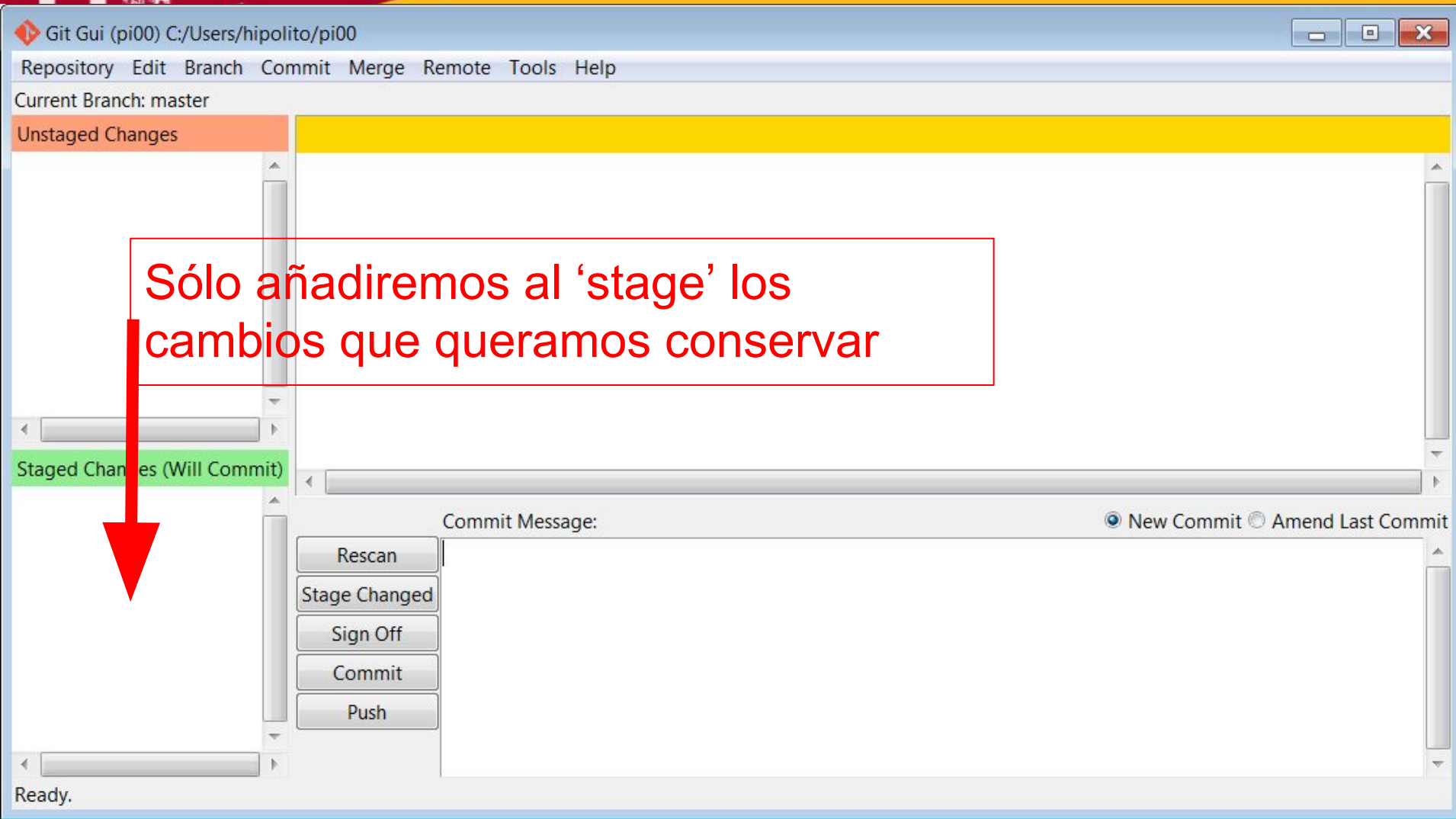


Siempre que hagamos una operación con el repositorio remoto nos pedirá el password



The screenshot shows the Git GUI application window. The title bar reads "Git Gui (pi00) C:/Users/hipolito/pi00". The menu bar includes "Repository", "Edit", "Branch", "Commit", "Merge", "Remote", "Tools", and "Help". Below the menu bar, it says "Current Branch: master". The main area is divided into two sections: "Unstaged Changes" (highlighted in orange) and "Staged Changes (Will Commit)" (highlighted in green). A red arrow points from a text box to the "Unstaged Changes" section. The "Commit Message:" field is visible, with radio buttons for "New Commit" (selected) and "Amend Last Commit". A vertical toolbar on the left contains buttons for "Rescan", "Stage Changed", "Sign Off", "Commit", and "Push". The status bar at the bottom left says "Ready.".

Aquí aparecerán los cambios que hagamos en la carpeta de trabajo



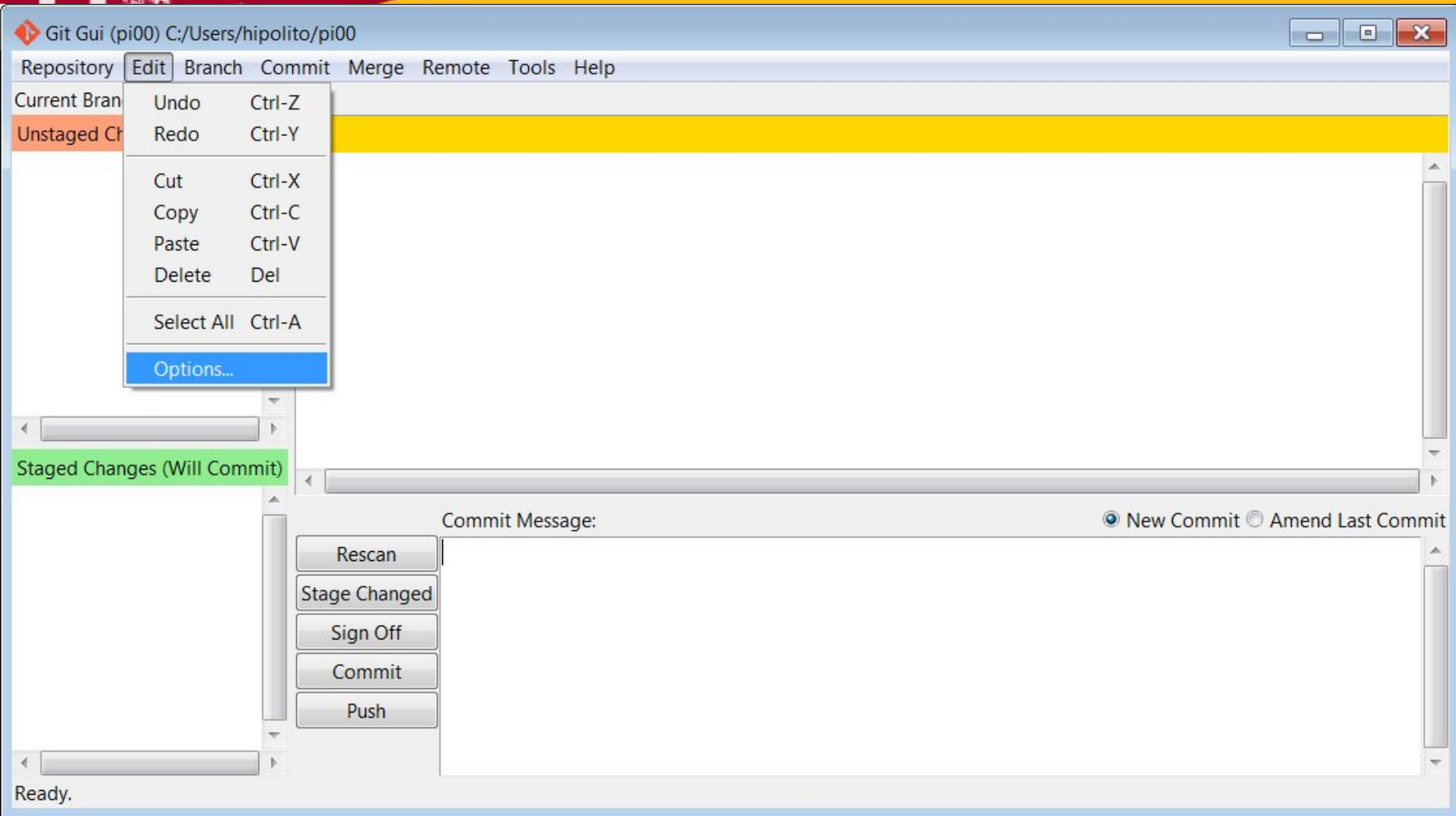
The screenshot shows the Git GUI application window. The title bar reads "Git Gui (pi00) C:/Users/hipolito/pi00". The menu bar includes "Repository", "Edit", "Branch", "Commit", "Merge", "Remote", "Tools", and "Help". Below the menu bar, it says "Current Branch: master". The main area is divided into two sections: "Unstaged Changes" (highlighted in orange) and "Staged Changes (Will Commit)" (highlighted in green). A red box with the text "Sólo añadiremos al 'stage' los cambios que queremos conservar" is positioned over the "Unstaged Changes" section. A red arrow points from this box down to the "Staged Changes" section. At the bottom left, there is a "Ready." status indicator. On the right side, there are radio buttons for "New Commit" (selected) and "Amend Last Commit". A vertical toolbar on the left contains buttons for "Rescan", "Stage Changed", "Sign Off", "Commit", and "Push". A "Commit Message:" text area is located at the bottom right.

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# Configuramos git



pi00 Repository

User Name: Hipolito Guzman

Email Address: hipolito@gie.esi.us.es

Summarize Merge Commits

Merge Verbosity: 2

Show Diffstat After Merge

Use Merge Tool:

Trust File Modification Timestamps

Prune Tracking Branches During Fetch

Match Tracking Branches

Use Textconv For Diffs and Blames

Blame Copy Only On Changed Files

Maximum Length of Recent Repositories List: 10

Minimum Letters To Blame Copy On: 40

Blame History Context Radius (days): 7

Number of Diff Context Lines: 5

Additional Diff Parameters:

Commit Message Text Width: 75

New Branch Name Template:

Default File Contents Encoding: cp1252

Warn before committing to a detached head

Staging of untracked files: ask

Show untracked files

Spelling Dictionary:

Global (All Repositories)

User Name: Hipolito Guzman

Email Address: hipolito@gie.esi.us.es

Summarize Merge Commits

Merge Verbosity: 2

Show Diffstat After Merge

Use Merge Tool:

Trust File Modification Timestamps

Prune Tracking Branches During Fetch

Match Tracking Branches

Use Textconv For Diffs and Blames

Blame Copy Only On Changed Files

Maximum Length of Recent Repositories List: 10

Minimum Letters To Blame Copy On: 40

Blame History Context Radius (days): 7

Number of Diff Context Lines: 5

Additional Diff Parameters:

Commit Message Text Width: 75

New Branch Name Template:

Default File Contents Encoding: cp1252

Warn before committing to a detached head

Staging of untracked files: ask

Show untracked files

Spelling Dictionary:

Main Font: Segoe UI 9 pt.

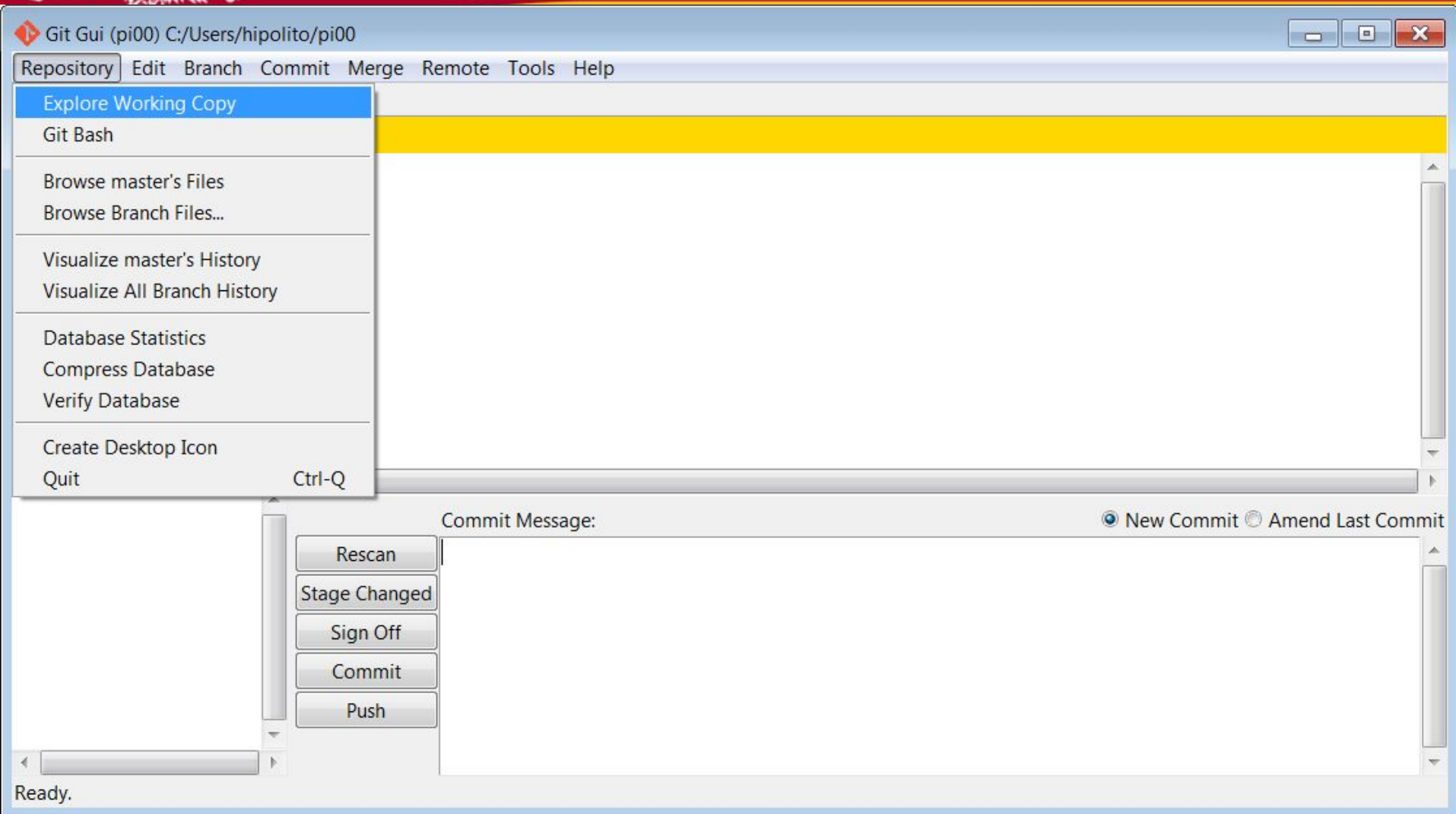
Diff/Console Font: Courier New 10 pt.

Poned vuestro nombre y vuestro email

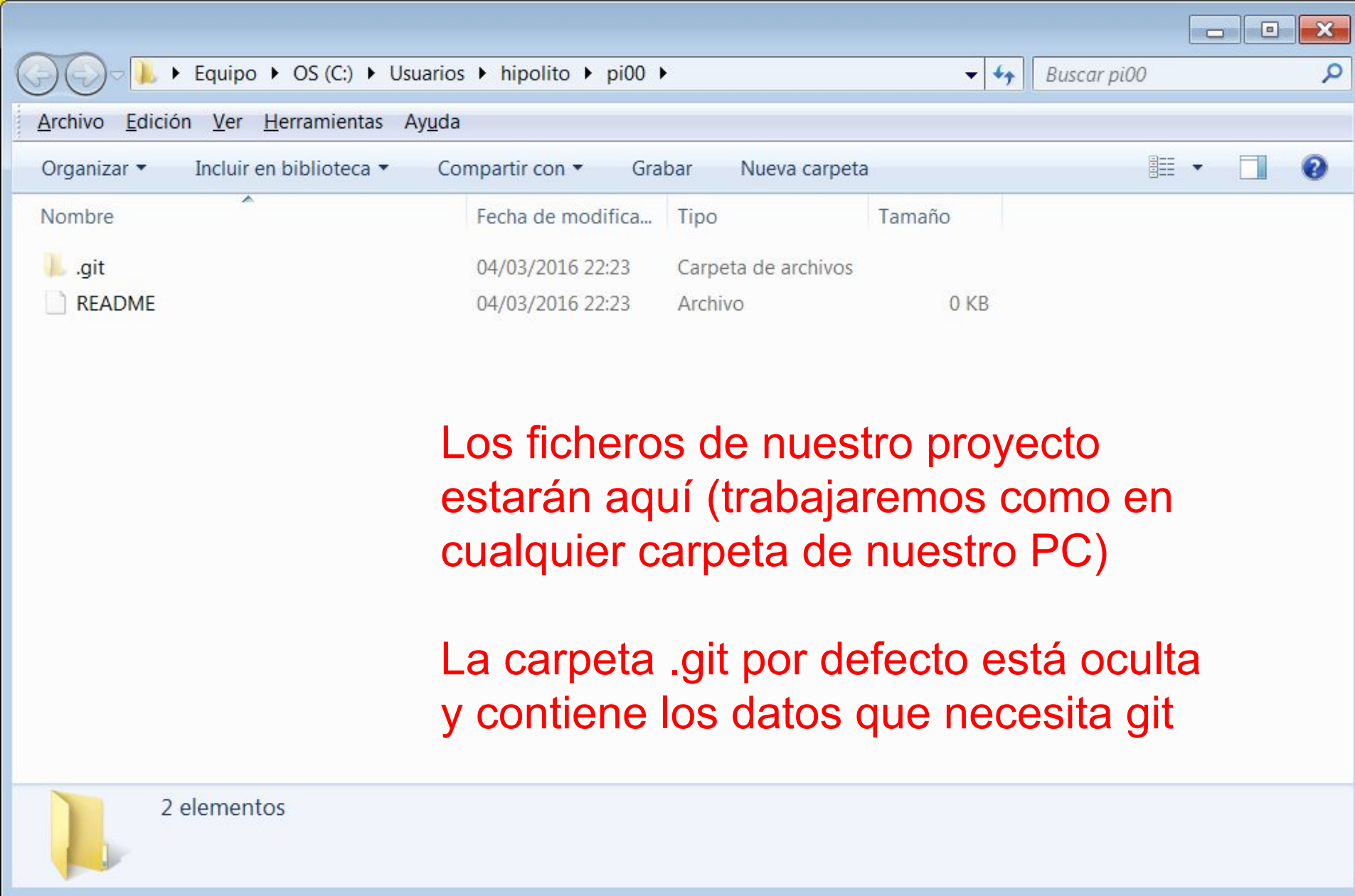
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# Añadir ficheros al stage



Abrimos la carpeta del repo

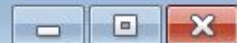


Los ficheros de nuestro proyecto estarán aquí (trabajaremos como en cualquier carpeta de nuestro PC)

La carpeta .git por defecto está oculta y contiene los datos que necesita git

Workspace es una carpeta más de nuestro PC





Equipo > OS (C:) > Usuarios > hipolito > pi00

Buscar pi00

Archivo Edición Ver Herramientas Ayuda

Organizar Abrir Compartir con Imprimir Grabar Nueva carpeta

Nombre	Fecha de modifica...	Tipo	Tamaño
.git	04/03/2016 22:29	Carpeta de archivos	
hipolito.txt	04/03/2016 22:29	Documento de tex...	0 KB
README	04/03/2016 22:23	Archivo	0 KB

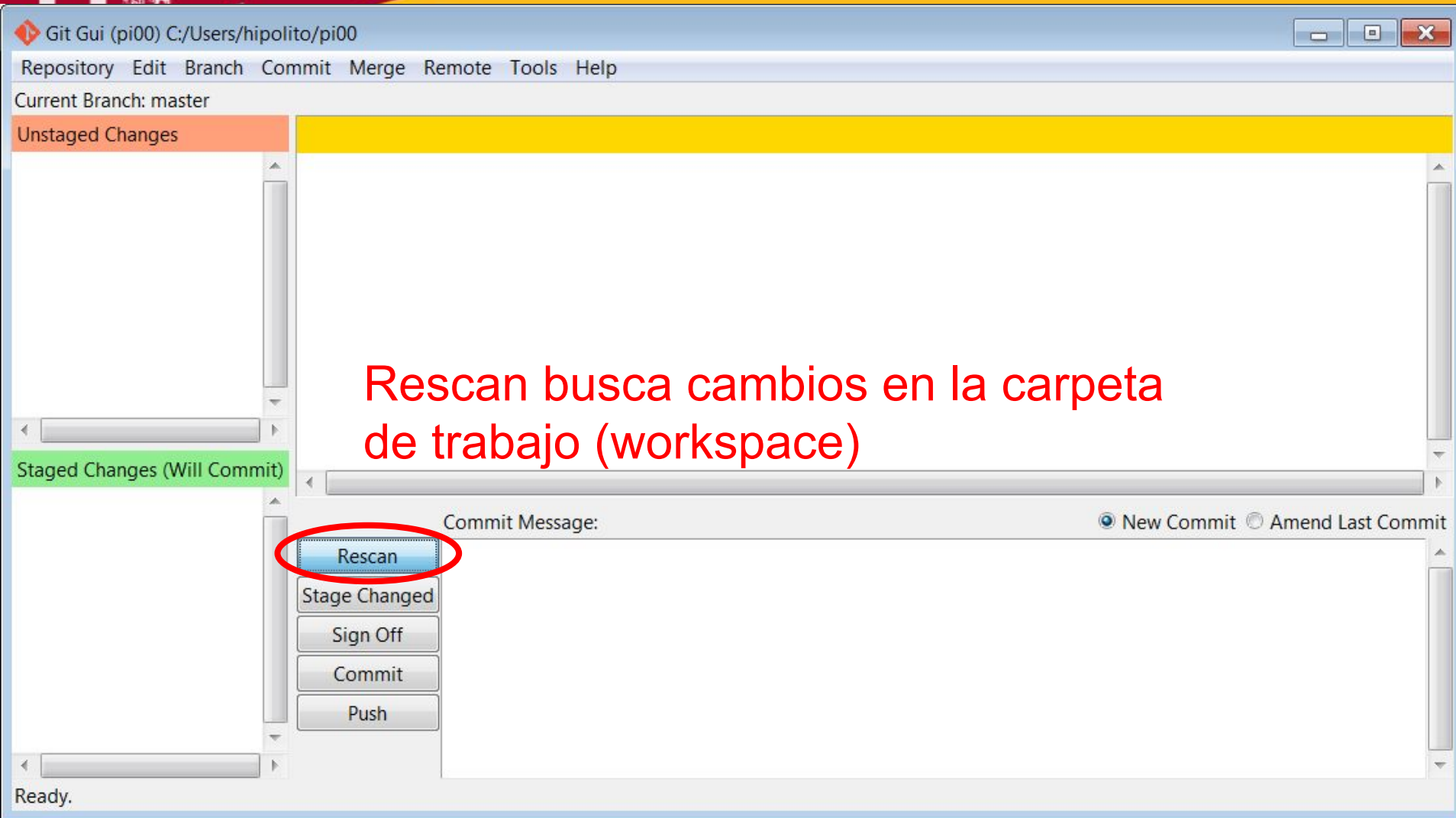


Nuevo documento de texto.txt Fecha de modifica... 04/03/2016 22:29 Fecha de creación: 04/03/2016 22:29  
Documento de texto Tamaño: 0 bytes

# Creamos un fichero con nuestro nombre

Contenido de 'hipolito.txt'

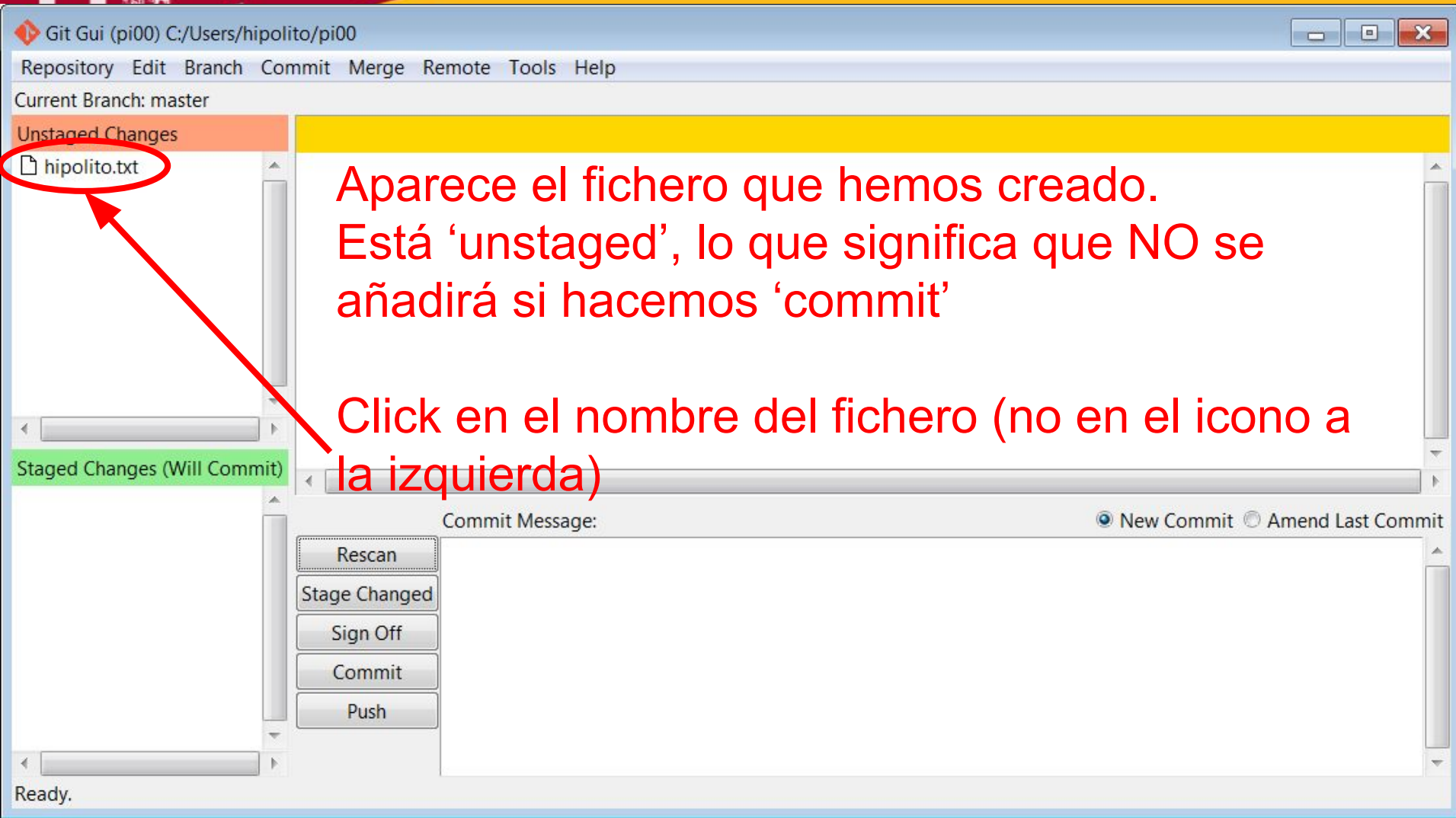
# Añadir ficheros al stage



Rescan busca cambios en la carpeta de trabajo (workspace)



# Añadir ficheros al stage



Aparece el fichero que hemos creado.  
Está 'unstaged', lo que significa que NO se añadirá si hacemos 'commit'

Click en el nombre del fichero (no en el icono a la izquierda)

# Añadir ficheros al stage

Git Gui (pi00) C:/Users/hipolito/pi00

Repository Edit Branch Commit Merge Remote Tools Help

Current Branch: master

Unstaged Changes **Untracked not staged** File: hipolito.txt

hipolito.txt Contenido de 'hipolito.txt'

Staged Changes (Will Commit)

Commit Message:  New Commit  Amend Last Commit

Rescan  
Stage Changed  
Sign Off  
Commit  
Push

Ready.

Además de 'not staged', el fichero está untracked

Untracked significa que por ahora no está bajo control de versiones, ya que es un fichero nuevo

Click en el icono a la izquierda del nombre para añadirlo al stage ('git add')

# Añadir ficheros al stage

The screenshot shows the Git GUI interface for a repository at C:/Users/hipolito/pi00. The current branch is 'master'. The 'Staged for commit' section is highlighted in yellow and shows the details for the file 'hipolito.txt':

```
new file mode 100644
@@ -0,0 +1 @@
+Contenido de 'hipolito.txt'
```

The 'Staged Changes (Will Commit)' section is highlighted in green and lists the file 'hipolito.txt'. A red arrow points from the text 'En el 'stage' aparece el fichero que hemos añadido' to the 'hipolito.txt' entry in the 'Staged Changes' list.

Below the 'Staged Changes' list, there are several buttons: Rescan, Stage Changed, Sign Off, Commit, and Push. The 'Commit Message' field is empty, and the 'New Commit' radio button is selected.

En el 'stage' aparece el fichero que hemos añadido

# Añadir ficheros al stage

Git Gui (pi00) C:/Users/hipolito/pi00

Repository Edit Branch Commit Merge Remote Tools Help

Current Branch: master

Unstaged Changes

Staged for commit File: hipolito.txt

```
new file mode 100644
@@ -0,0 +1 @@
+Contenido de 'hipolito.txt'
```

Stage Changes (Will Commit)

- hipolito.txt

Commit Message:  New Commit  Amend Last Commit

Rescan  
Stage Changed  
Sign Off  
Commit  
Push

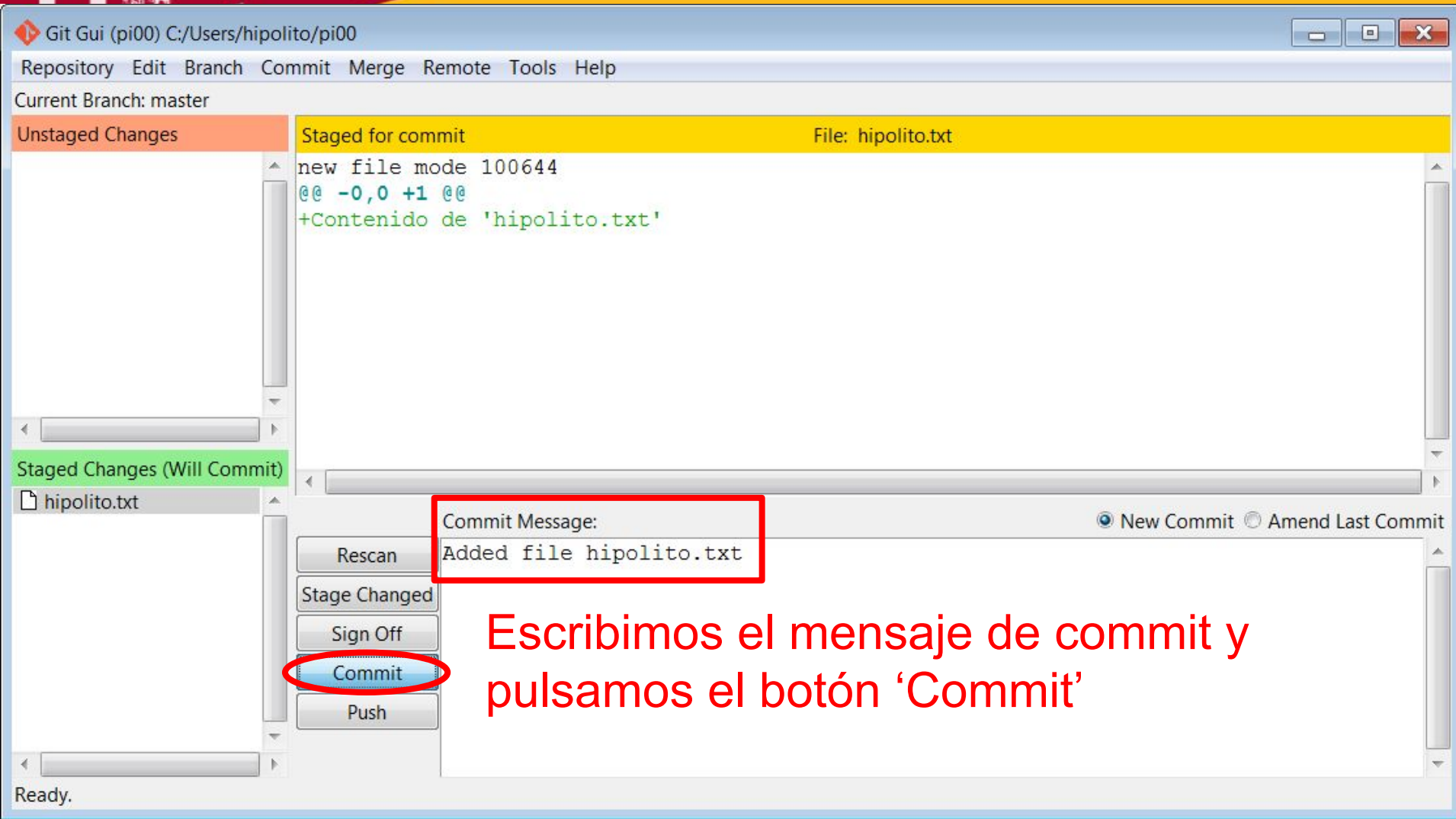
Ready.

Si no quisiéramos hacer commit de este fichero lo sacaríamos del stage ('unstage') haciendo click en el icono a la izquierda del nombre

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# Creando commits



Git Gui (pi00) C:/Users/hipolito/pi00

Repository Edit Branch Commit Merge Remote Tools Help

Current Branch: master

Unstaged Changes

Staged for commit File: hipolito.txt

```
new file mode 100644
@@ -0,0 +1 @@
+Contenido de 'hipolito.txt'
```

Staged Changes (Will Commit)

hipolito.txt

Commit Message: Added file hipolito.txt

New Commit  Amend Last Commit

Rescan

Stage Changed

Sign Off

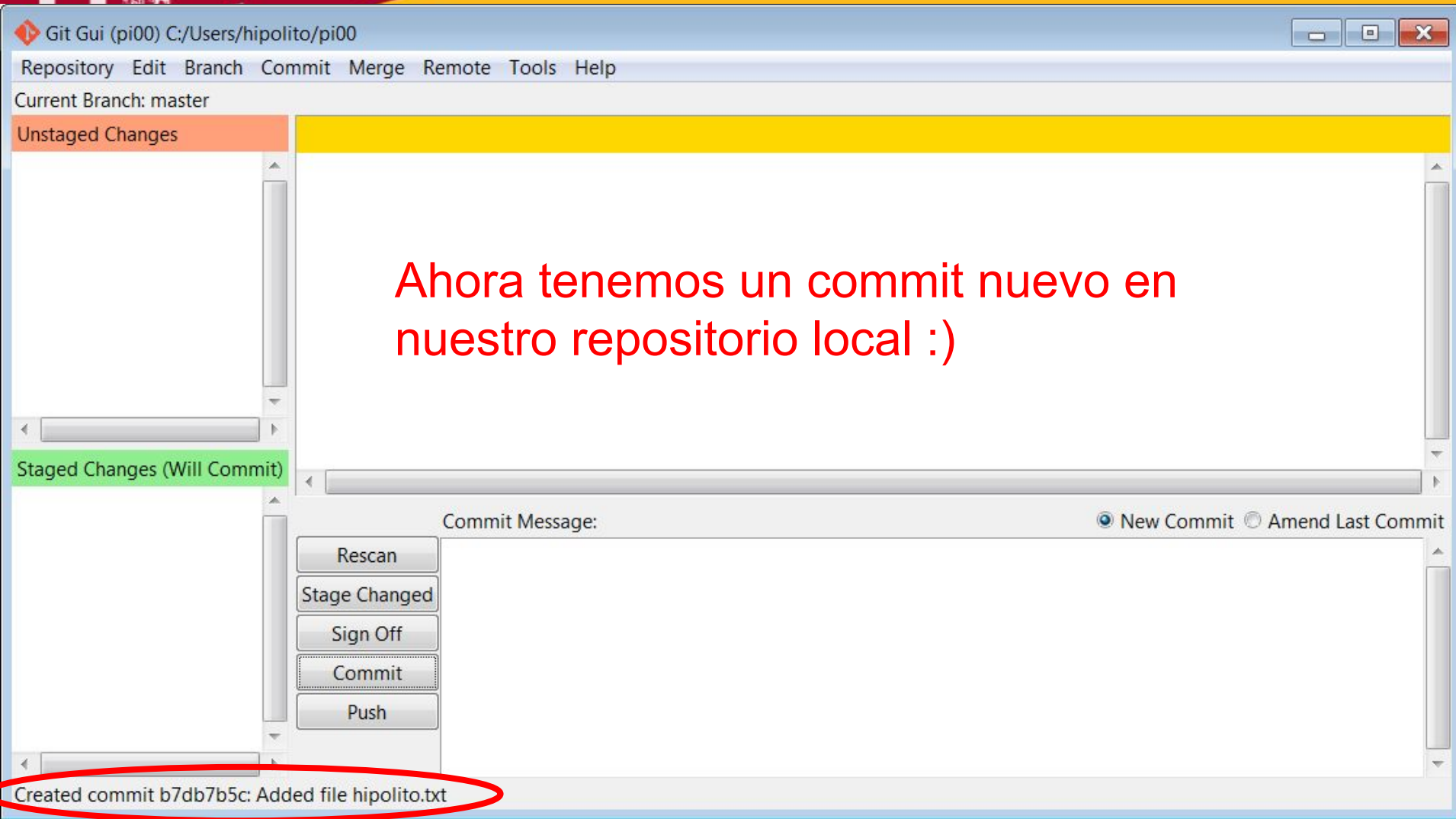
**Commit**

Push

Ready.

Escribimos el mensaje de commit y pulsamos el botón 'Commit'

# Creando commits



The screenshot shows the Git GUI application window. The title bar reads "Git Gui (pi00) C:/Users/hipolito/pi00". The menu bar includes "Repository", "Edit", "Branch", "Commit", "Merge", "Remote", "Tools", and "Help". Below the menu bar, it says "Current Branch: master". The main area is divided into "Unstaged Changes" (highlighted in yellow) and "Staged Changes (Will Commit)" (highlighted in green). The "Commit Message:" field is empty, and the "New Commit" radio button is selected. A vertical toolbar on the left contains buttons for "Rescan", "Stage Changed", "Sign Off", "Commit", and "Push". At the bottom, a status bar displays "Created commit b7db7b5c: Added file hipolito.txt", which is circled in red.

Ahora tenemos un commit nuevo en nuestro repositorio local :)



## Formato correcto de un mensaje de commit

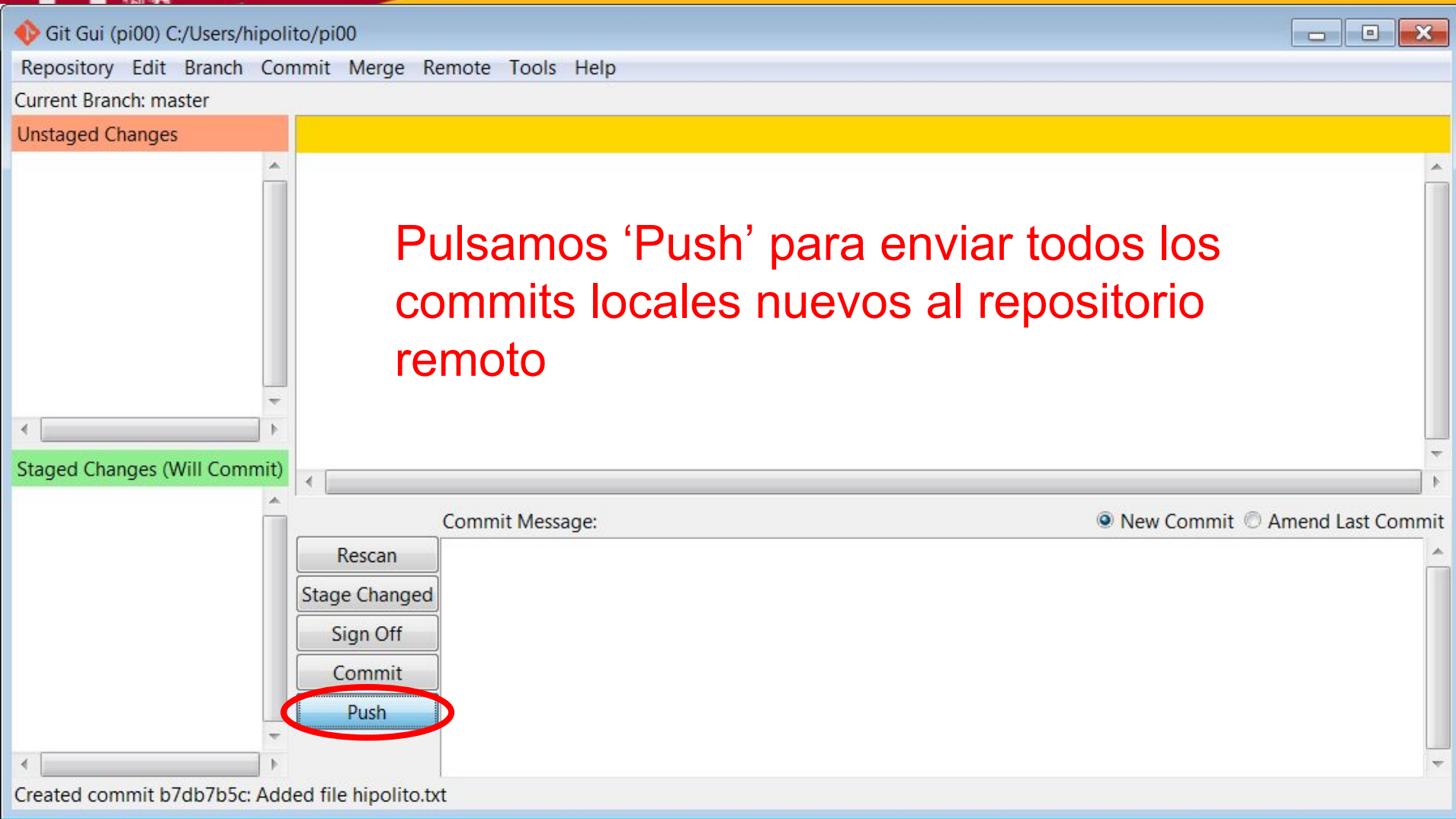
Aunque es texto plano y podemos hacerlo como queramos, lo recomendado es:

- Primera línea:
  - Resumen conciso de los cambios
  - Máximo 50 caracteres
- Si añadimos una descripción más extensa:
  - Dejamos la segunda línea en blanco
  - Tercera línea y posteriores:
    - Descripción más detallada
    - máximo 72 caracteres



# Contenido

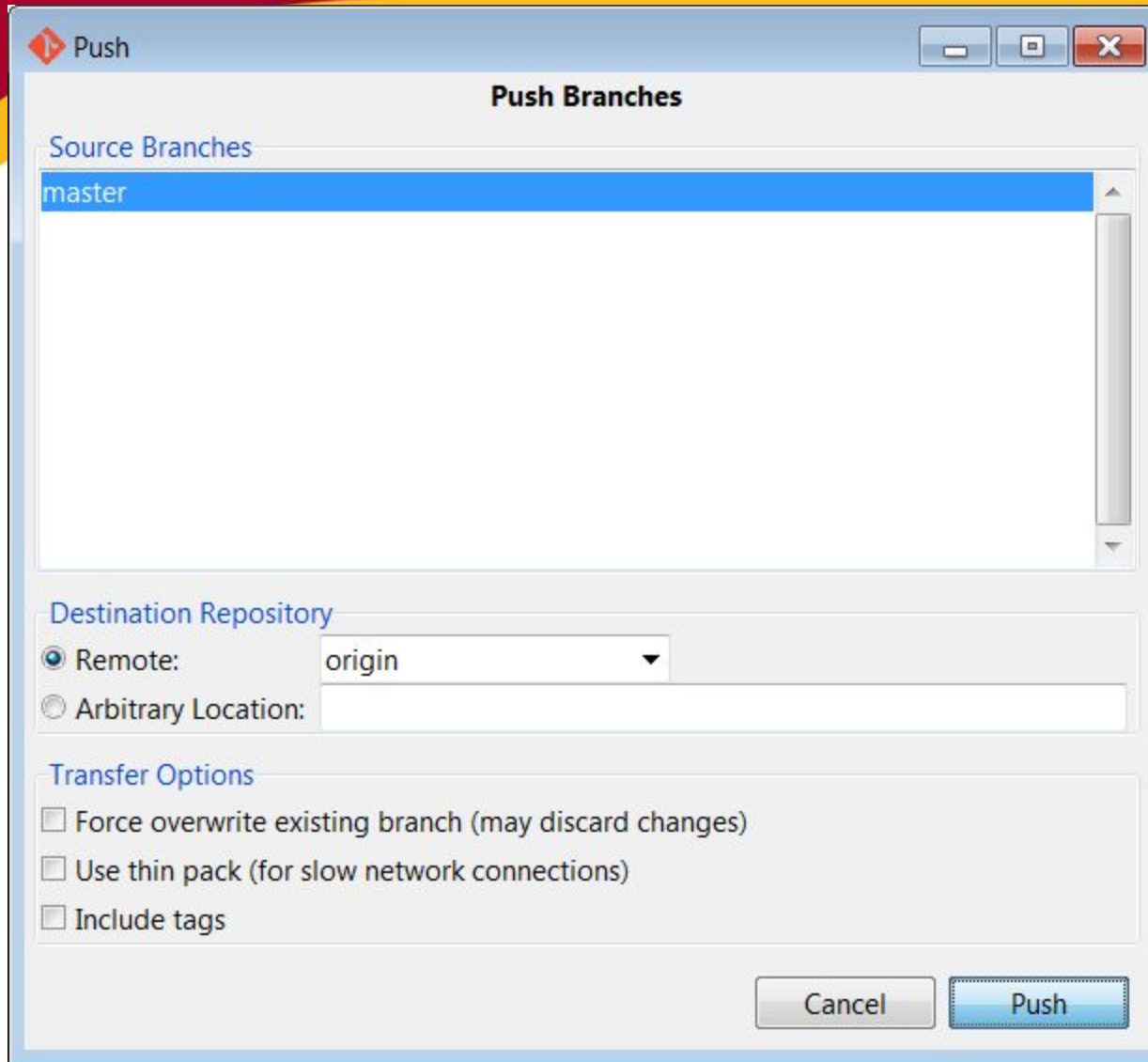
- Áreas de git
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- **Push**
- Pull = Fetch from origin + Merge local
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The screenshot shows the Git GUI application window. The title bar reads "Git Gui (pi00) C:/Users/hipolito/pi00". The menu bar includes "Repository", "Edit", "Branch", "Commit", "Merge", "Remote", "Tools", and "Help". The status bar at the top indicates "Current Branch: master". The interface is divided into several sections: "Unstaged Changes" (highlighted in orange), "Staged Changes (Will Commit)" (highlighted in green), and a "Commit Message" field. A vertical toolbar on the left contains buttons for "Rescan", "Stage Changed", "Sign Off", "Commit", and "Push". The "Push" button is circled in red. The "Commit Message" field has radio buttons for "New Commit" (selected) and "Amend Last Commit". At the bottom, a status bar displays "Created commit b7db7b5c: Added file hipolito.txt".

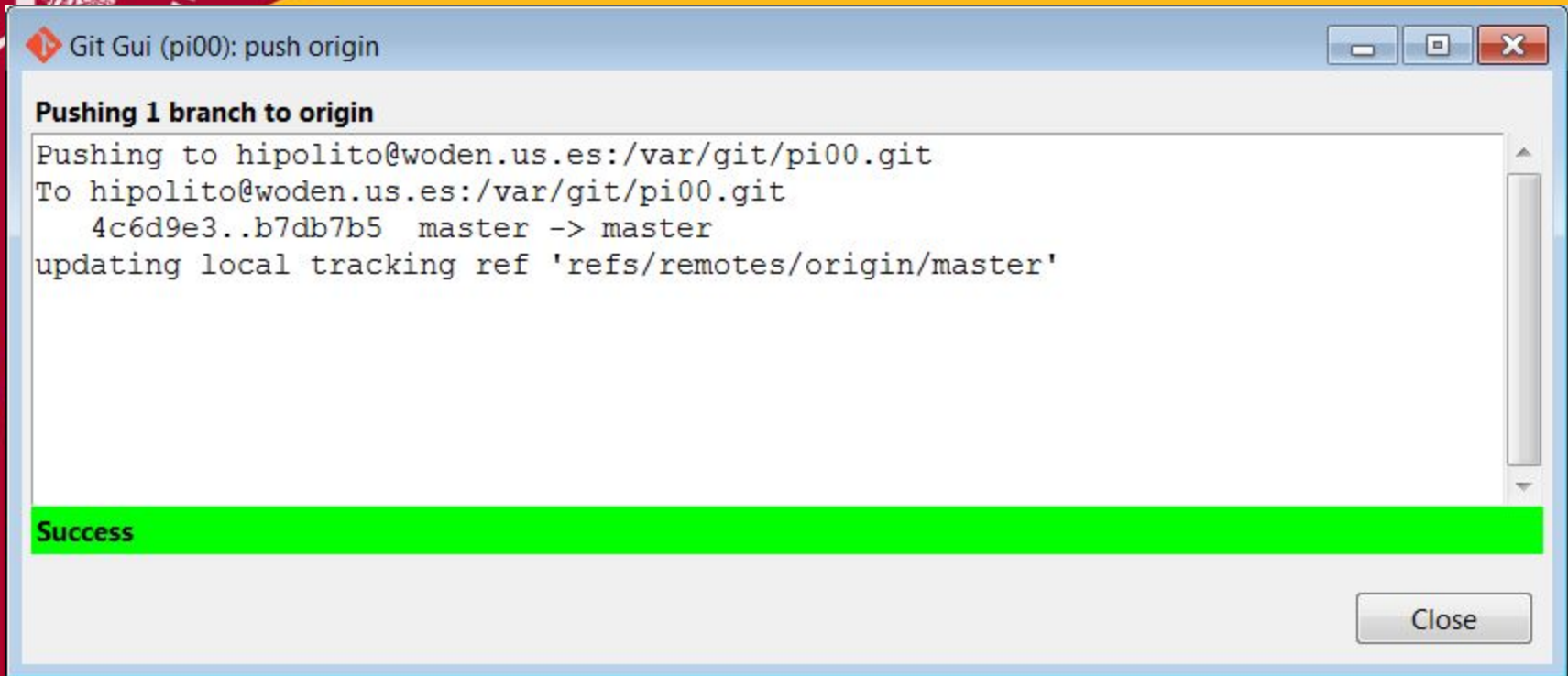
Pulsamos 'Push' para enviar todos los commits locales nuevos al repositorio remoto

# Push



Por defecto 'pusheamos' a la rama master

# Push



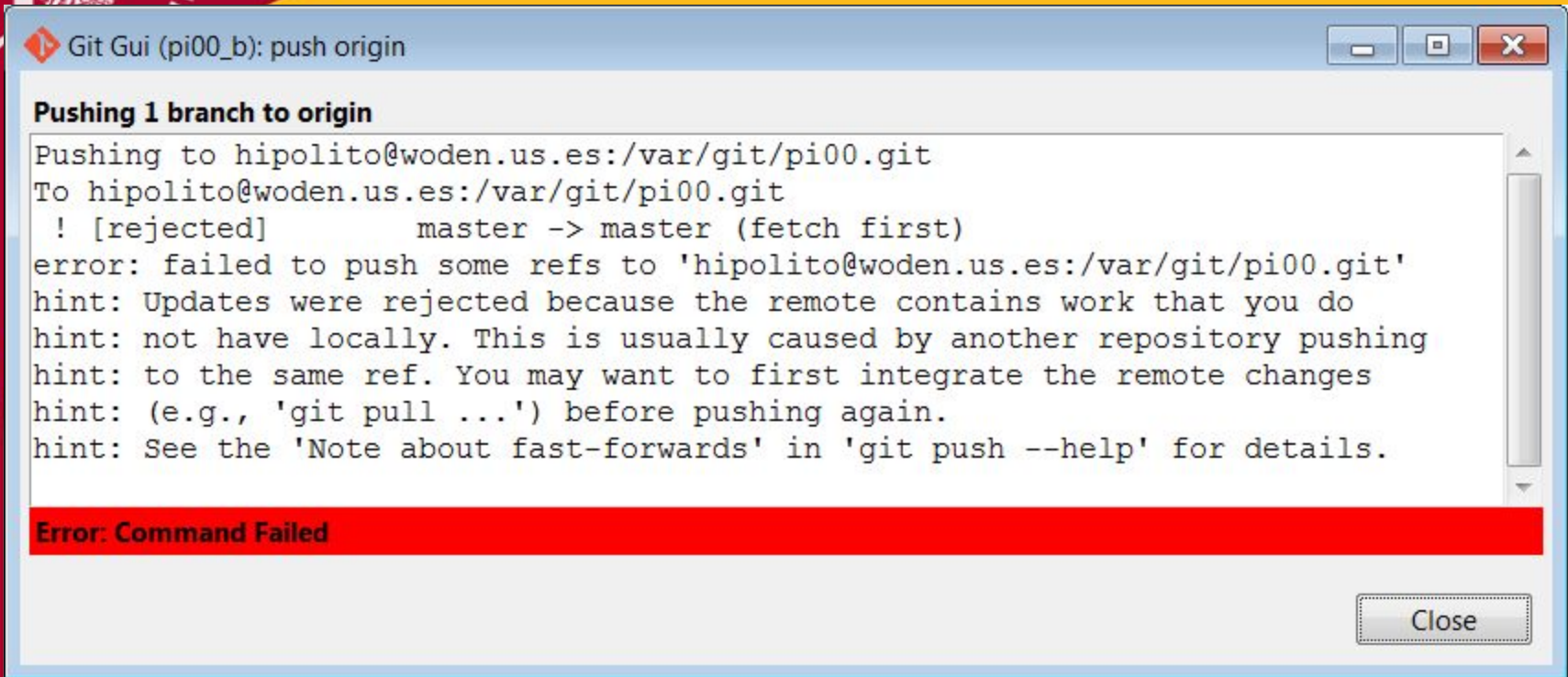
```
Git Gui (pi00): push origin

Pushing 1 branch to origin
Pushing to hipolito@woden.us.es:/var/git/pi00.git
To hipolito@woden.us.es:/var/git/pi00.git
 4c6d9e3..b7db7b5  master -> master
updating local tracking ref 'refs/remotes/origin/master'

Success
```

Close

Normalmente todo va bien...



```
Git Gui (pi00_b): push origin

Pushing 1 branch to origin
Pushing to hipolito@woden.us.es:/var/git/pi00.git
To hipolito@woden.us.es:/var/git/pi00.git
 ! [rejected]          master -> master (fetch first)
error: failed to push some refs to 'hipolito@woden.us.es:/var/git/pi00.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

Error: Command Failed

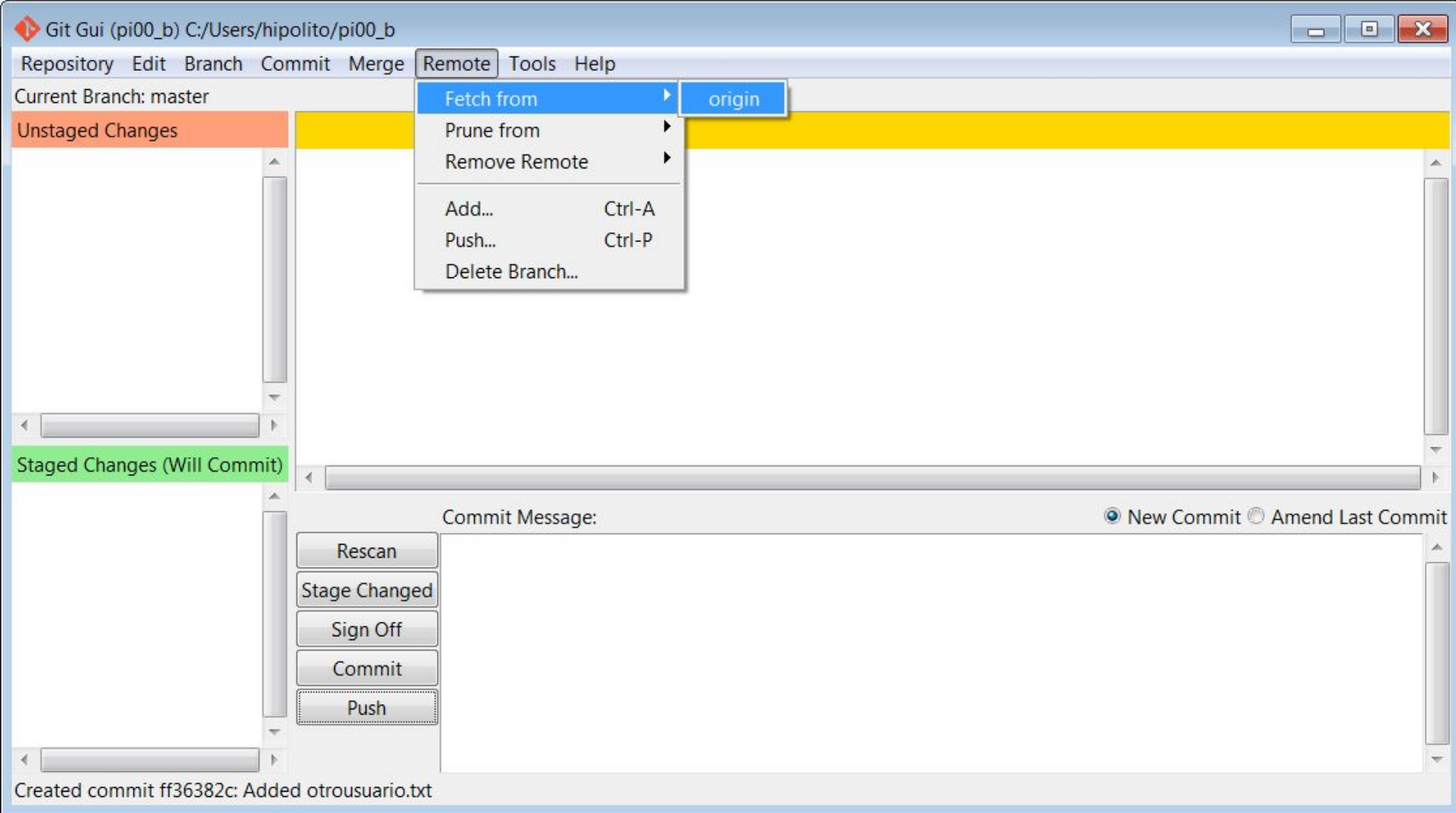
Close
```

Si nos da este error, es porque otro compañero ha hecho push antes que nosotros: debemos actualizar nuestro repo local (fetch + merge) antes de hacer push

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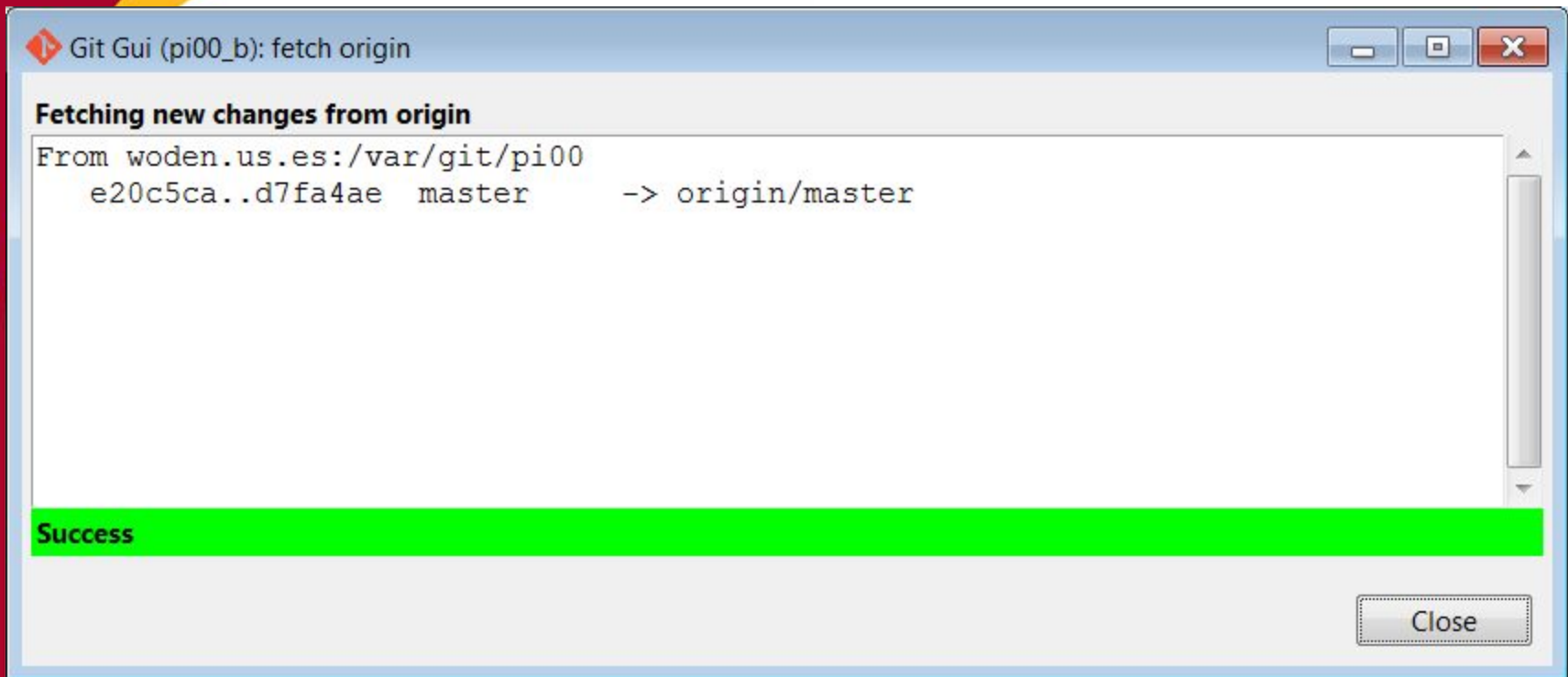
# Pull: fetch + merge



Fetch from origin descarga los cambios nuevos que haya en el repo remoto



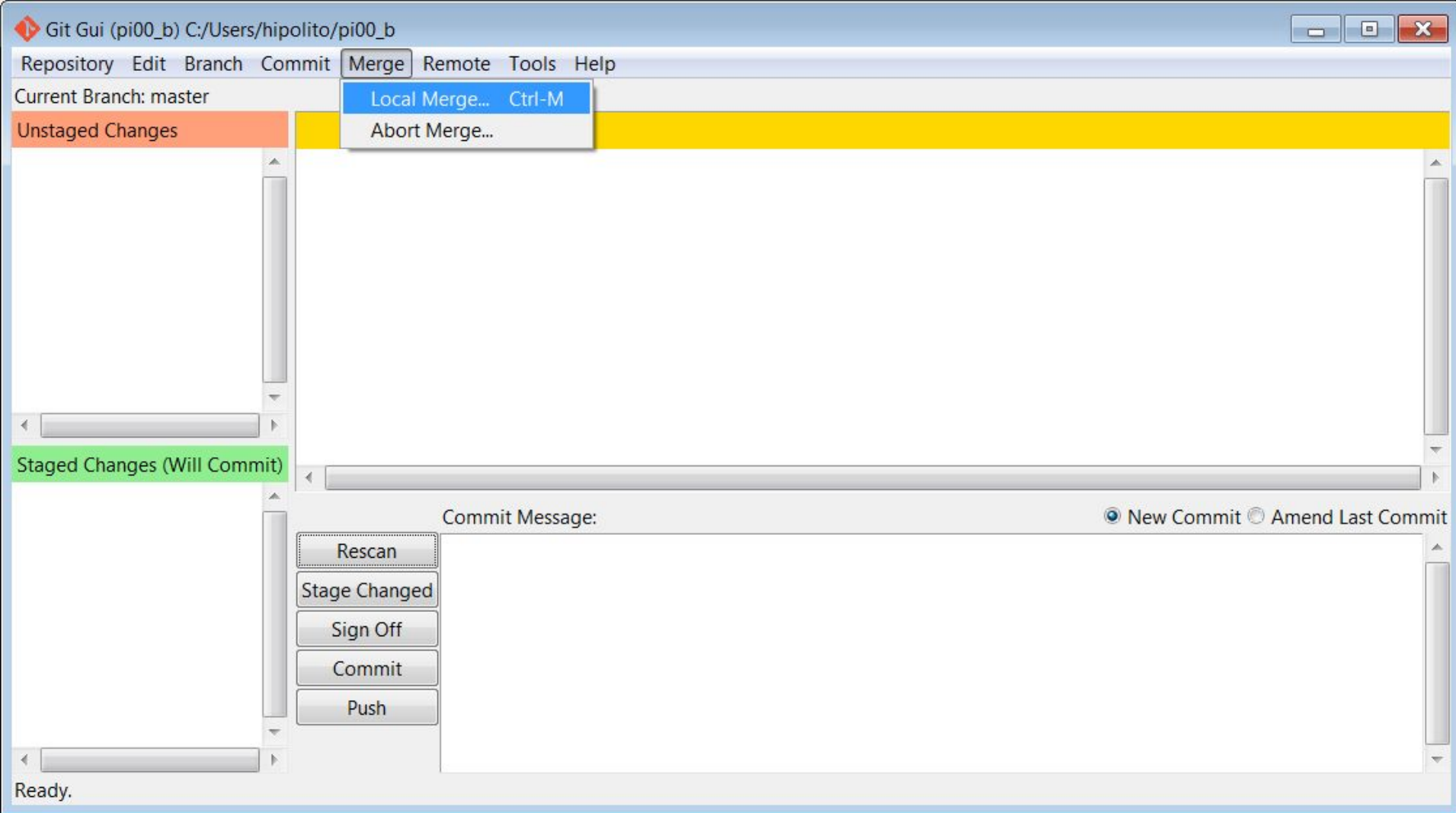
# Pull: fetch + merge



(Nota: si al hacer fetch este cuadro de diálogo no contiene texto, es que no hay cambios nuevos, por lo que no será necesario un merge)

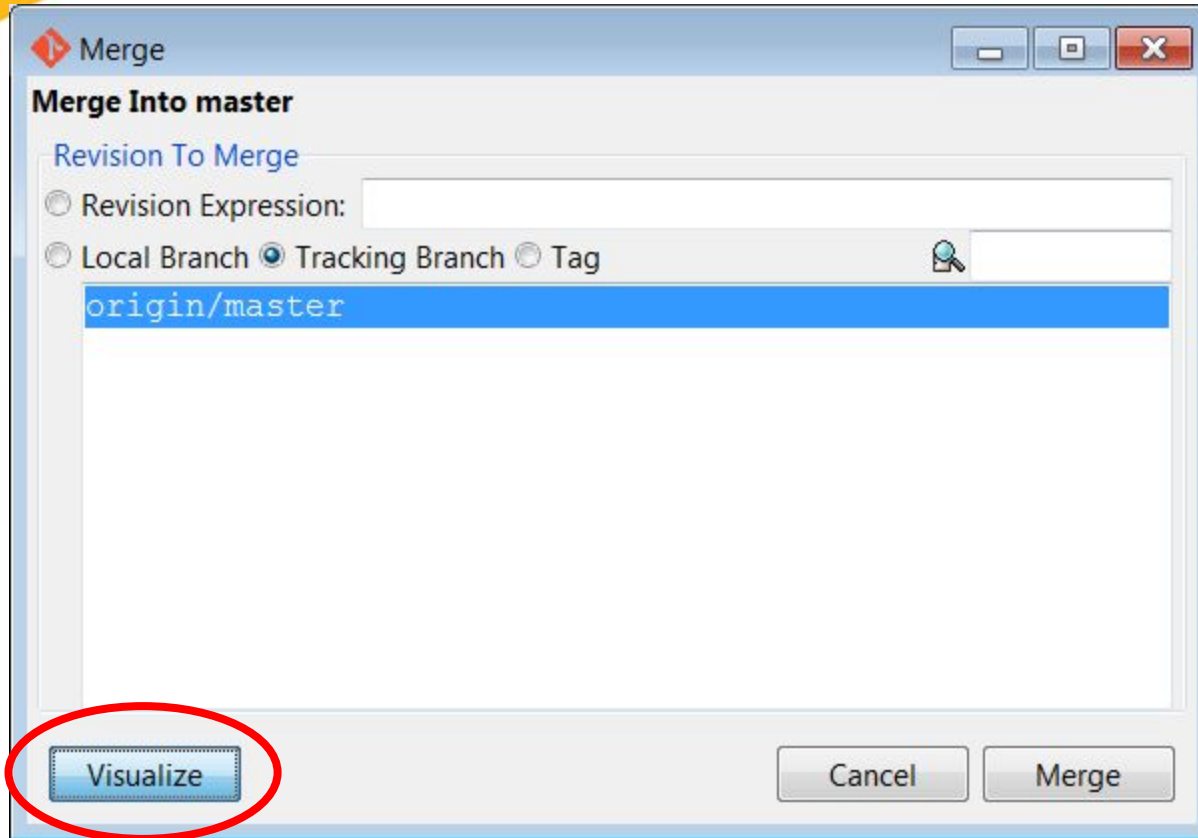


# Pull: fetch + merge



Local merge fusiona los cambios nuevos en el repo local y el workspace

# Pull: fetch + merge



Podemos ver los cambios antes de fusionar

# Pull: fetch + merge

The screenshot shows the gitk GUI for a repository named 'pi00\_b'. The top window displays the commit history:

- remotes/origin/master Added hipolito.txt
- Hipolito Guzman <hipolito@challenger> 2016-03-04 21:56:00
- Initial commit root <root@woden.(none)> 2013-10-23 23:09:46

The SHA1 ID of the selected commit is `d7fa4ae7fb8d2284513d4cc2e42a4b59f67503f0`. The search bar is set to 'revisión que contiene:' with 'Exacto' and 'Todos los campos' selected.

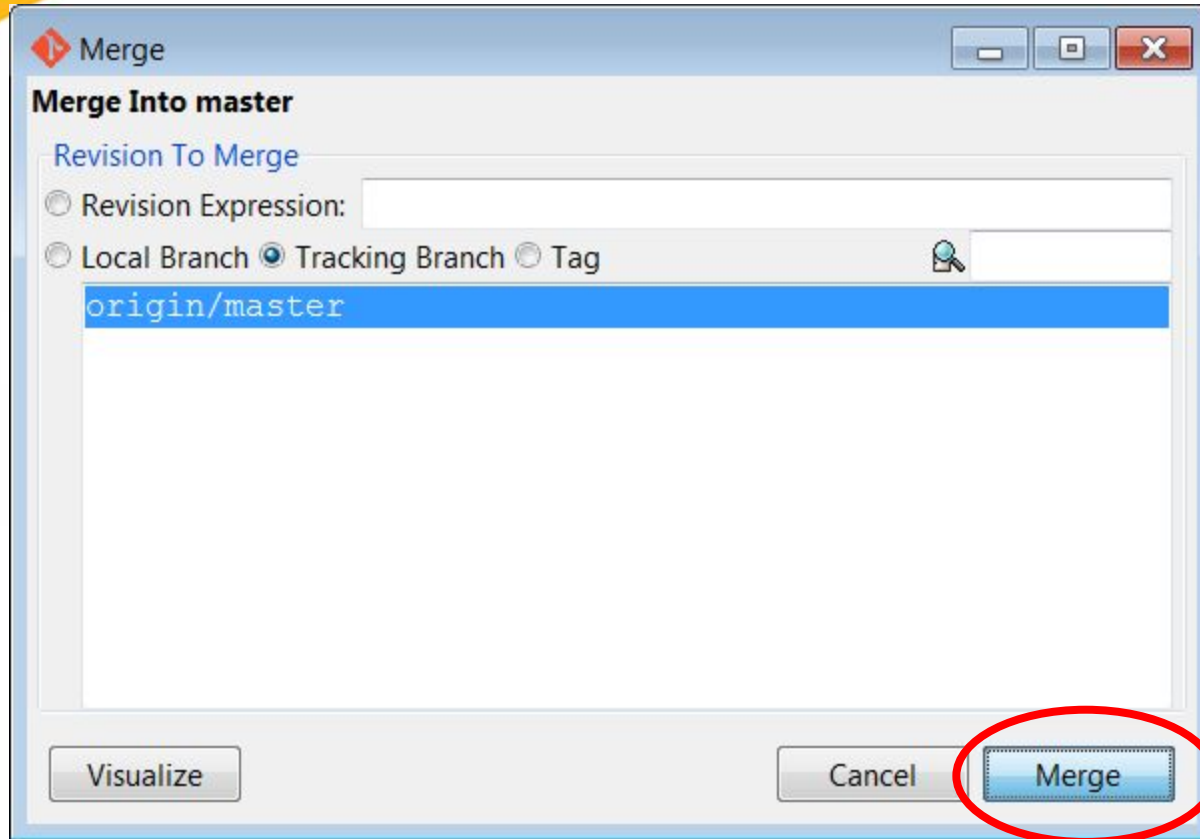
The diff view shows the changes for 'hipolito.txt':

```
 Autor: Hipolito Guzman <hipolito@challenger> 2016-03-04 21:56:00
 Committer: Hipolito Guzman <hipolito@challenger> 2016-03-04 21:56:00
 Padre: e20c5ca8c6a64777f87c9553b7a9d5b4d505ef85 (Initial commit)
 Rama: remotes/origin/master
 Sigue-a:
 Precede-a:

 Added hipolito.txt

----- hipolito.txt -----
new file mode 100644
index 0000000..91a06b3
@@ -0,0 +1 @@
+Contenido de 'hipolito.txt'
```

# Pull: fetch + merge



Pulsamos 'Merge'

# Pull: fetch + merge



Git Gui (pi00\_b): Merge

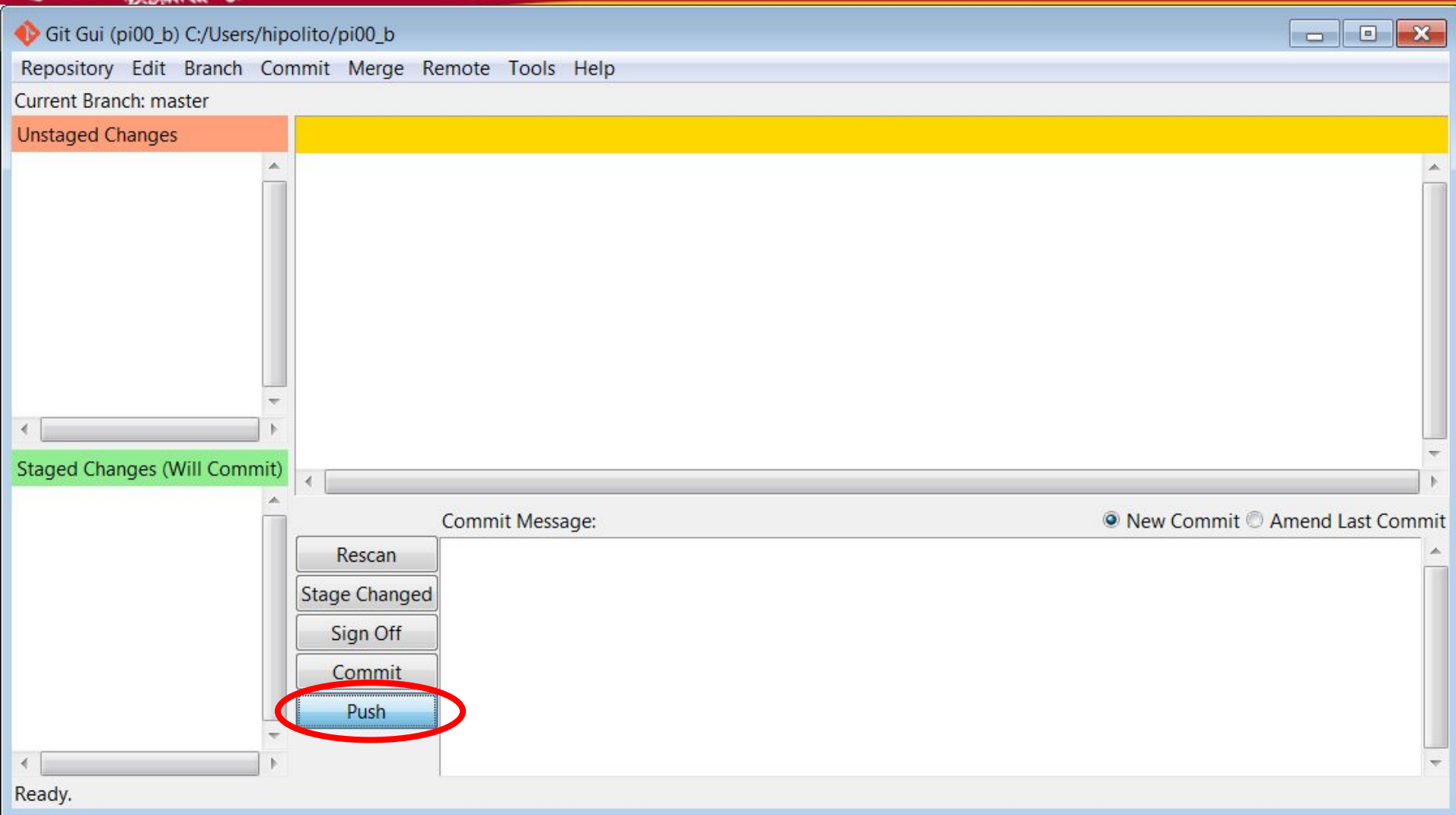
```
merge refs/heads/master of woden.us.es:/var/git/pi00.git  
Merge made by the 'recursive' strategy.  
hipolito.txt | 1 +  
1 file changed, 1 insertion(+)  
create mode 100644 hipolito.txt
```

Success

Close

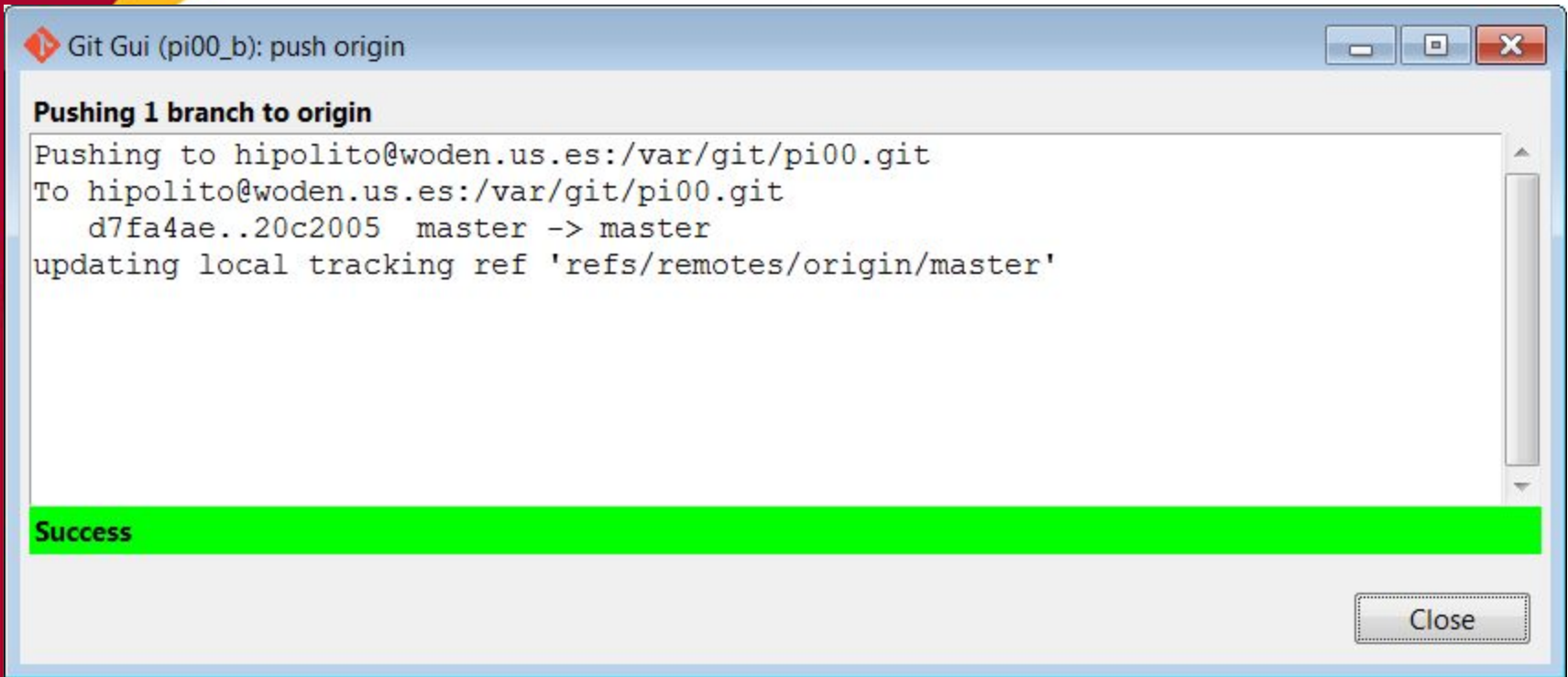
Merge completado con éxito

# Push (2)



Tras el merge, ya podemos 'pushear' nuestros cambios

# Push (2)

A screenshot of the Git GUI application window. The title bar reads 'Git Gui (pi00\_b): push origin'. The main content area shows the following text:

```
Pushing 1 branch to origin
Pushing to hipolito@woden.us.es:/var/git/pi00.git
To hipolito@woden.us.es:/var/git/pi00.git
    d7fa4ae..20c2005  master -> master
updating local tracking ref 'refs/remotes/origin/master'
```

A green bar at the bottom of the window contains the word 'Success'. A 'Close' button is located in the bottom right corner of the window.

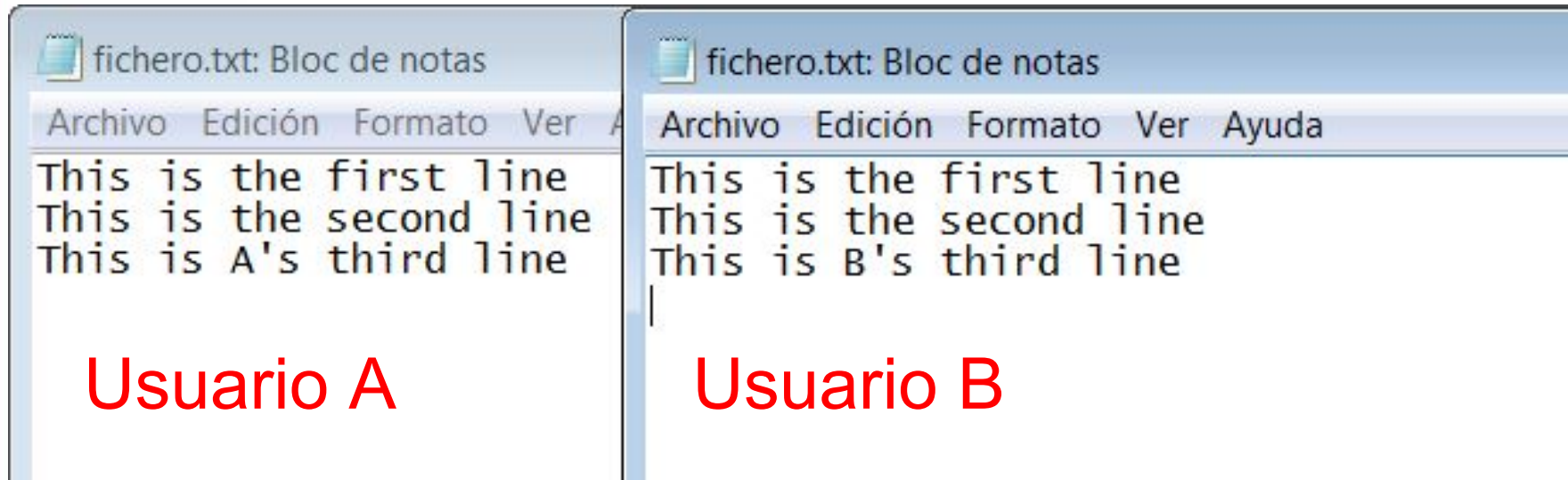
Y esta vez, el push termina correctamente

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¿Qué ocurre si dos personas modifican la misma zona del mismo fichero?



The image shows two side-by-side Notepad windows, both titled 'fichero.txt: Bloc de notas'. The left window, labeled 'Usuario A', has a menu bar with 'Archivo', 'Edición', 'Formato', and 'Ver'. Its text contains three lines: 'This is the first line', 'This is the second line', and 'This is A's third line'. The right window, labeled 'Usuario B', has a menu bar with 'Archivo', 'Edición', 'Formato', 'Ver', and 'Ayuda'. Its text contains three lines: 'This is the first line', 'This is the second line', and 'This is B's third line'. The third line in the right window is highlighted in yellow, indicating it is the current selection.

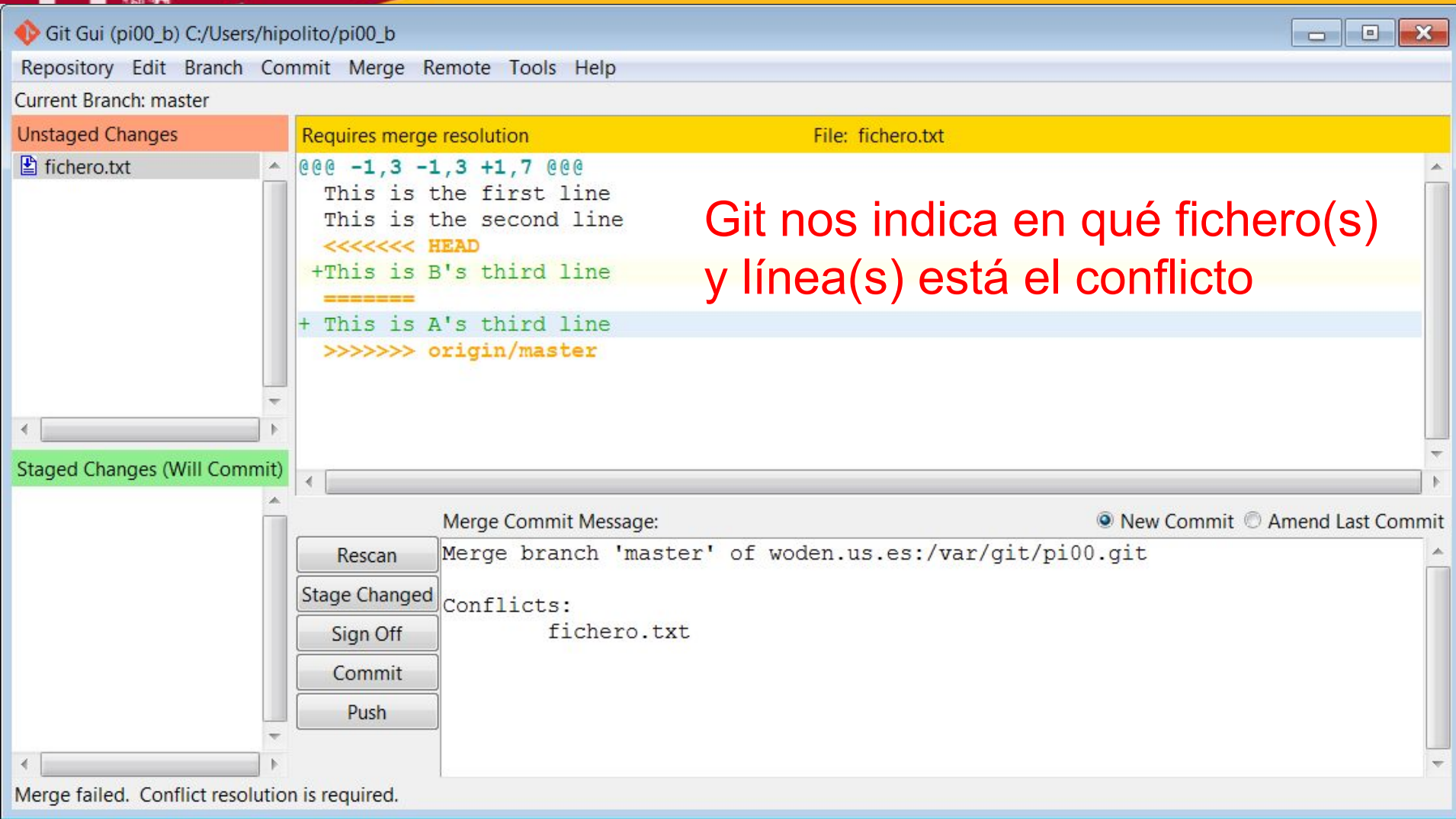
**Usuario A**

**Usuario B**

A 'pushea' primero y no ve nada raro  
B tiene que hacer fetch + merge, pero al hacer merge:



```
Git Gui (pi00_b): Merge
merge refs/heads/master of woden.us.es:/var/git/pi00.git
Auto-merging fichero.txt
CONFLICT (content): Merge conflict in fichero.txt
Automatic merge failed; fix conflicts and then commit the result.
Error: Command Failed
Close
```



Git Gui (pi00\_b) C:/Users/hipolito/pi00\_b

Repository Edit Branch Commit Merge Remote Tools Help

Current Branch: master

Unstaged Changes

fichero.txt

Requires merge resolution File: fichero.txt

```
@@@ -1,3 -1,3 +1,7 @@@
This is the first line
This is the second line
<<<<<< HEAD
+This is B's third line
=====
+ This is A's third line
>>>>>> origin/master
```

Staged Changes (Will Commit)

Merge Commit Message:  New Commit  Amend Last Commit

Rescan

Stage Changed

Sign Off

Commit

Push

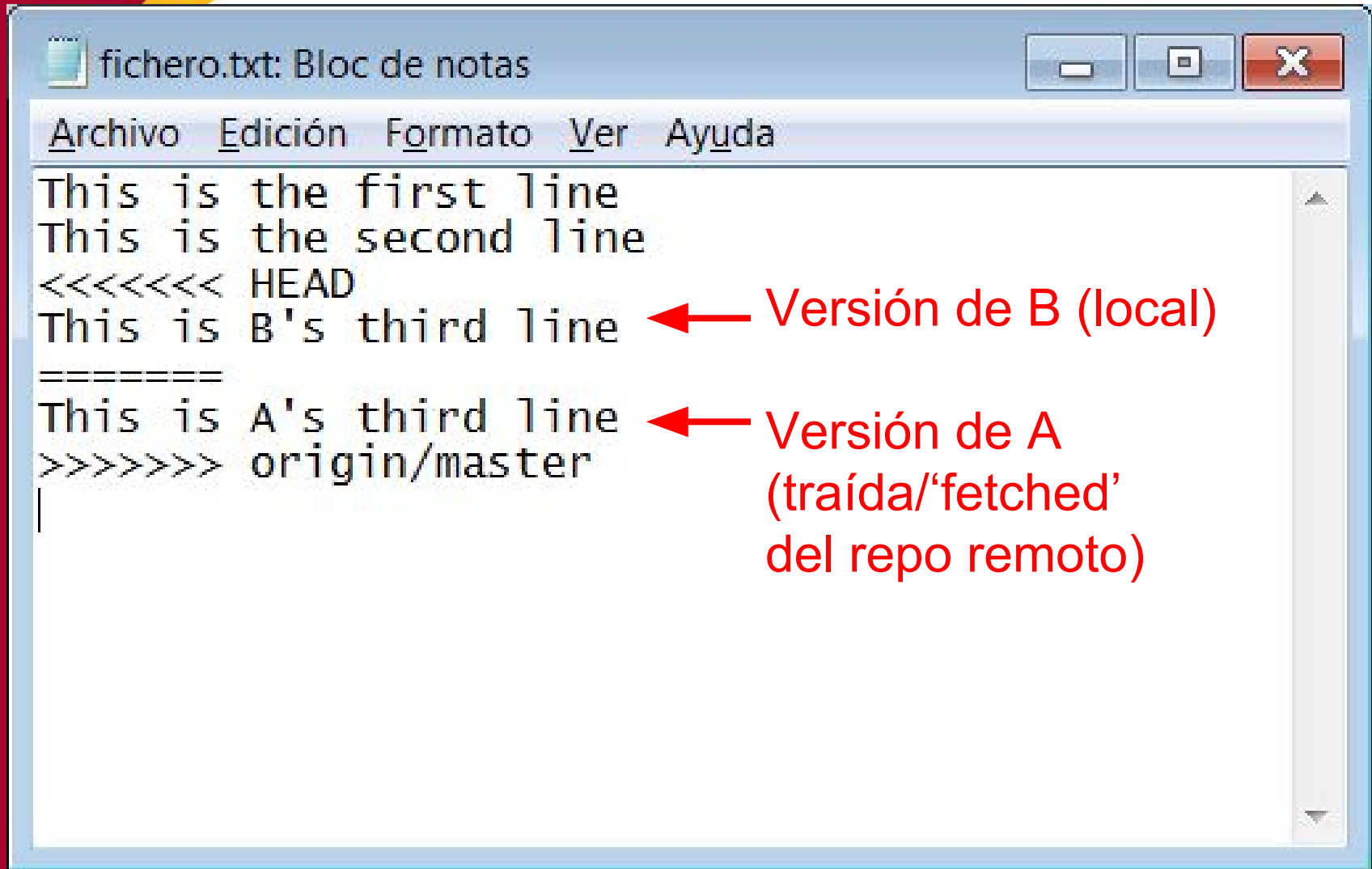
Merge branch 'master' of woden.us.es:/var/git/pi00.git

Conflicts:

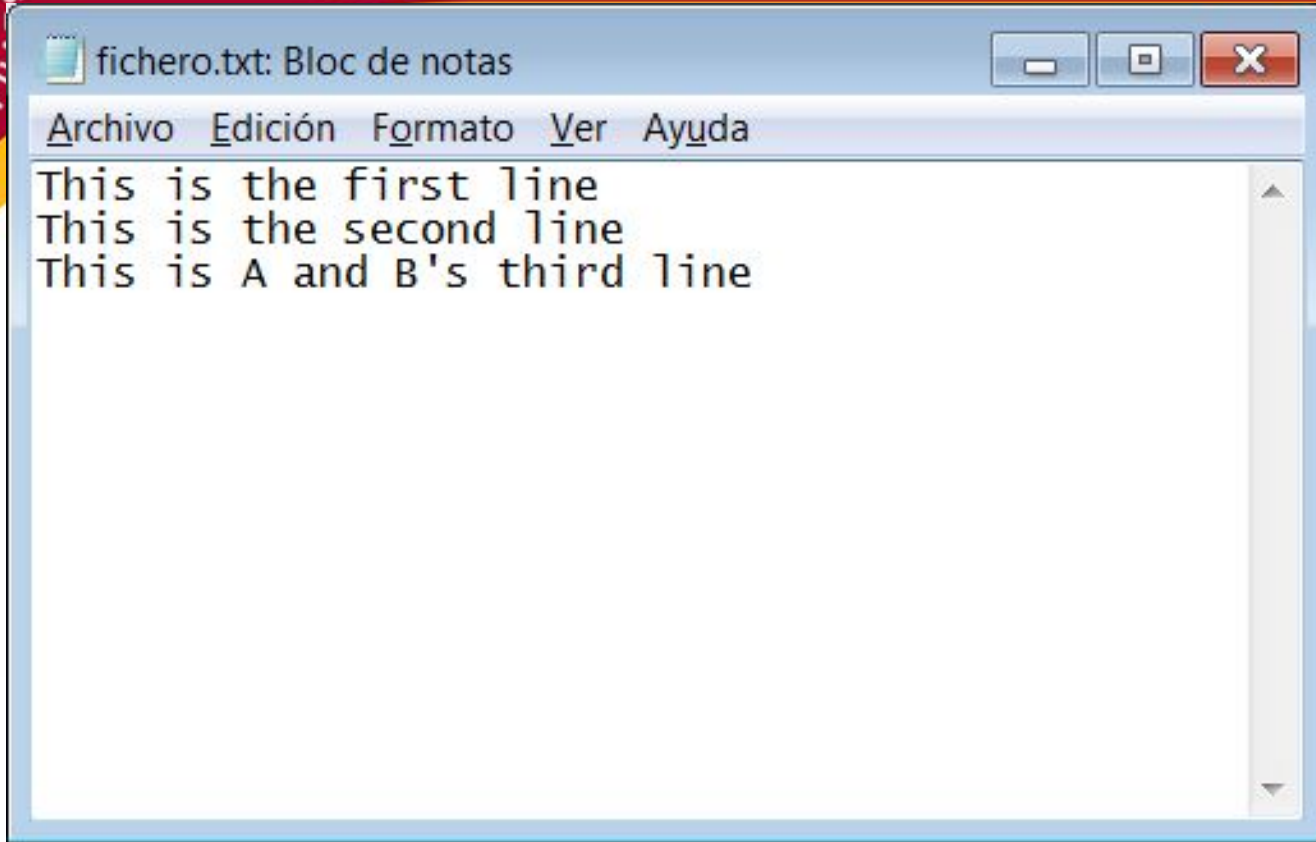
fichero.txt

Merge failed. Conflict resolution is required.

Git nos indica en qué fichero(s) y línea(s) está el conflicto

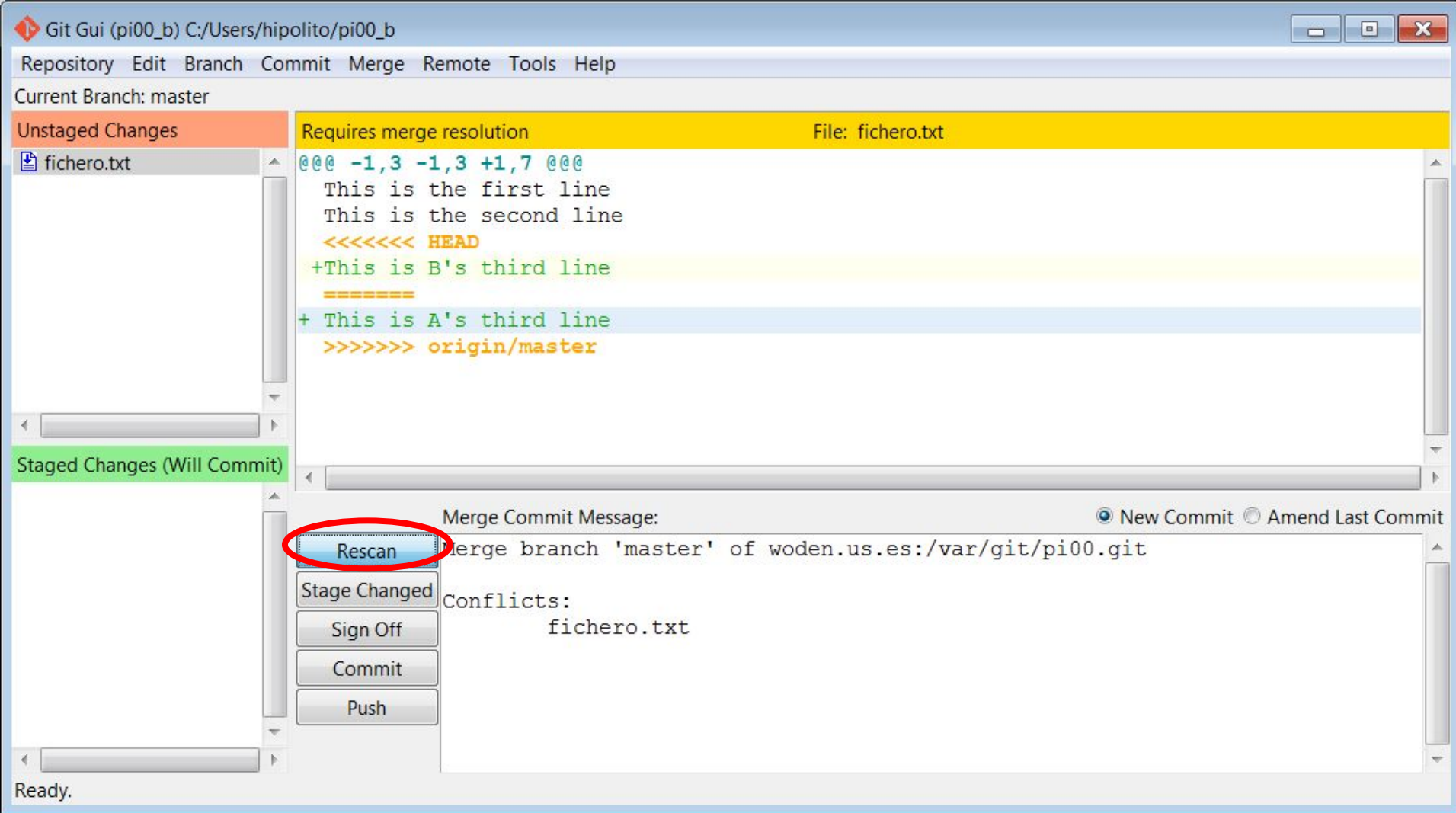


```
fichero.txt: Bloc de notas
Archivo Edición Formato Ver Ayuda
This is the first line
This is the second line
<<<<<<< HEAD
This is B's third line
=====
This is A's third line
>>>>>>> origin/master
|
```



Solucionamos el conflicto:

- Decidiendo qué versión es la correcta
- Eliminando los caracteres de control (<<, >>, ==)



Pulsamos 'Rescan' para buscar cambios en el workspace



Git Gui (pi00\_b) C:/Users/hipolito/pi00\_b

Repository Edit Branch Commit Merge Remote Tools Help

Current Branch: master

Unstaged Changes

Requires merge resolution File: fichero.txt

fichero.txt

```
@@@ -1,3 -1,3 +1,3 @@@
This is the first line
This is the second line
- This is B's third line
-This is A's third line
++This is A and B's third line
```

Staged Changes (Will Commit)

Merge Commit Message:  New Commit  Amend Last Commit

Merge branch 'master' of woden.us.es:/var/git/pi00.git

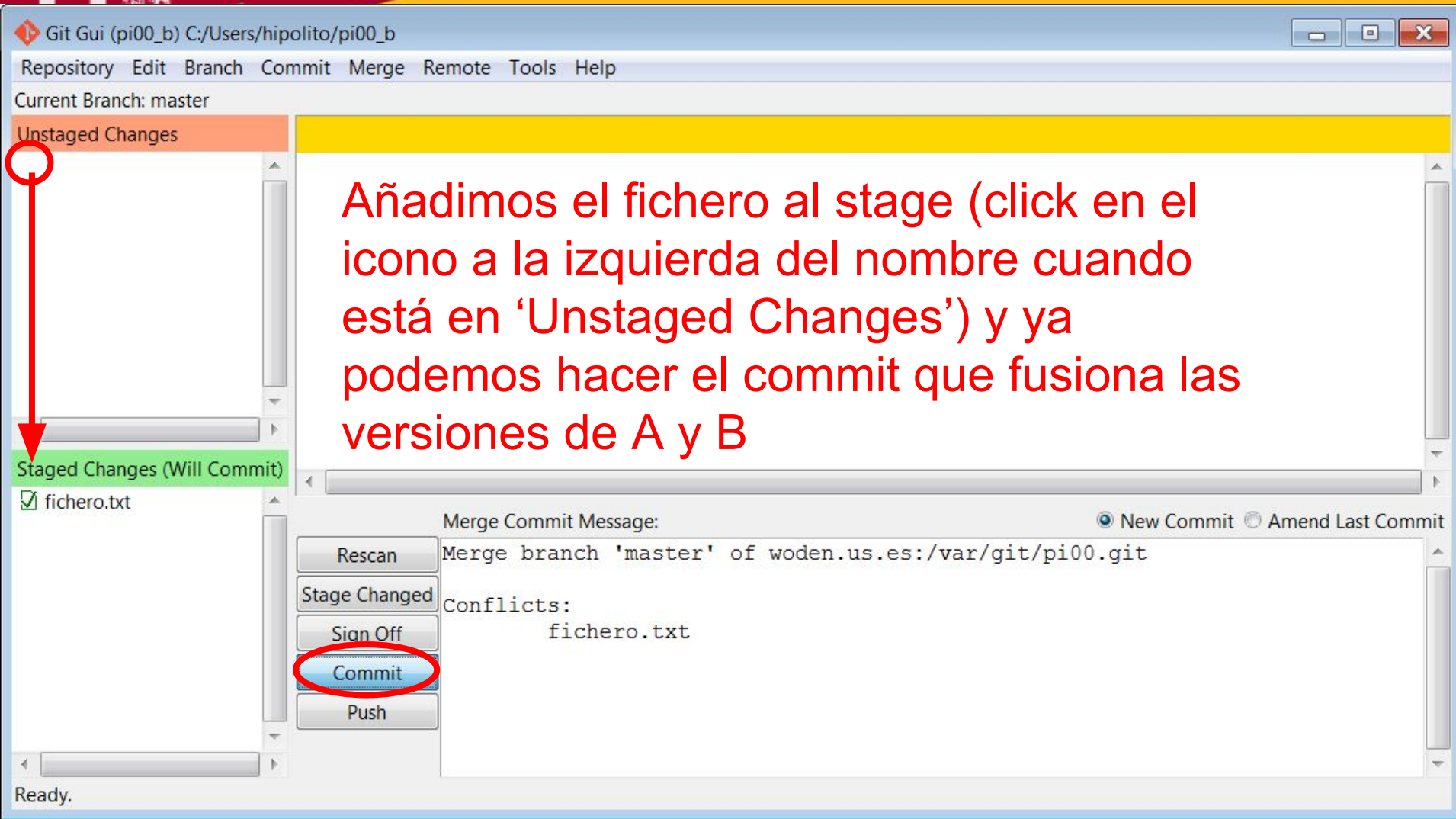
Conflicts:

fichero.txt

Rescan  
Stage Changed  
Sign Off  
Commit  
Push

Ready.

Vemos la versión corregida del fichero



Git Gui (pi00\_b) C:/Users/hipolito/pi00\_b

Repository Edit Branch Commit Merge Remote Tools Help

Current Branch: master

Unstaged Changes

Staged Changes (Will Commit)

fichero.txt

Rescan

Stage Changed

Sign Off

**Commit**

Push

Merge Commit Message:  New Commit  Amend Last Commit

Merge branch 'master' of woden.us.es:/var/git/pi00.git

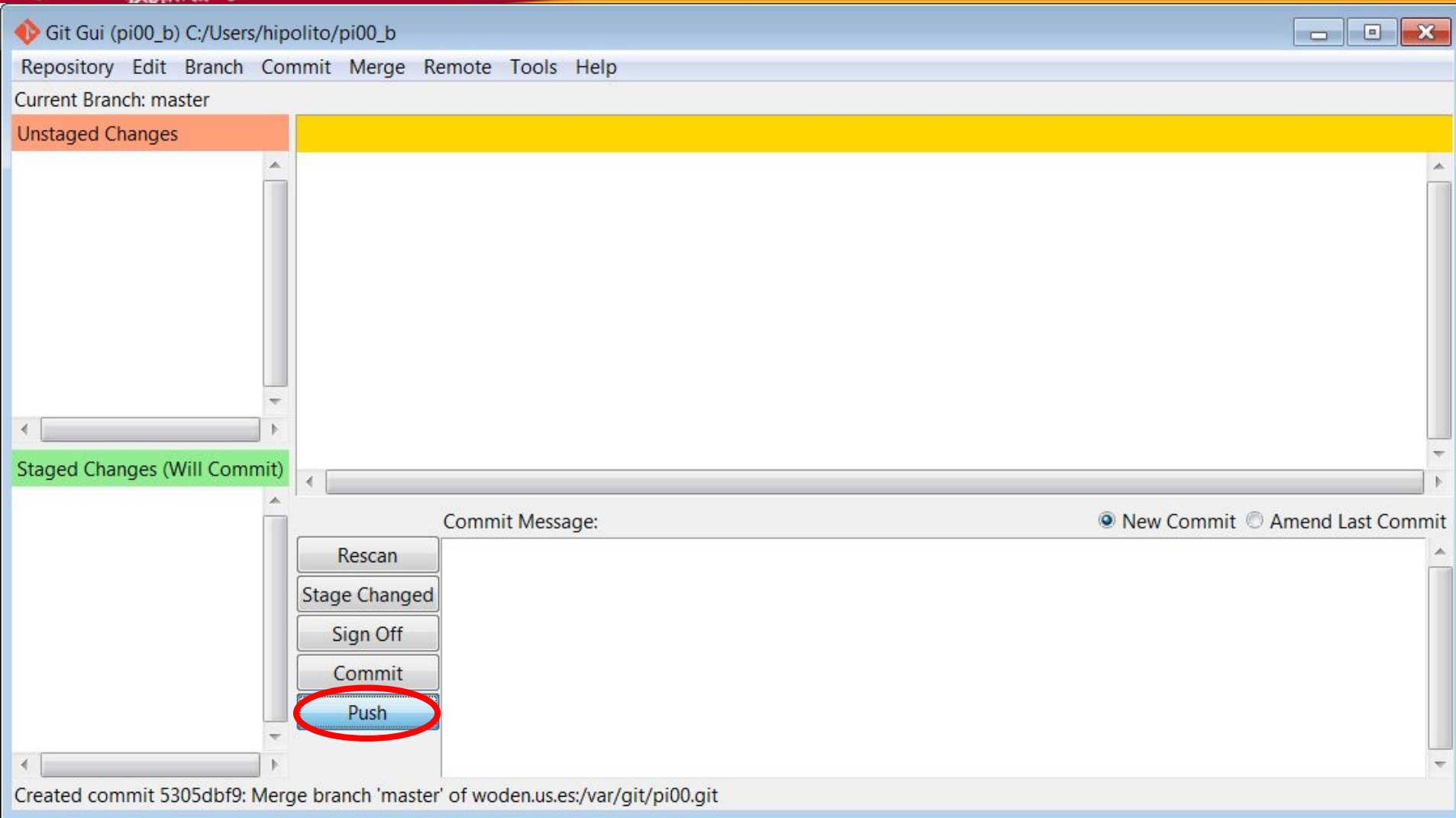
Conflicts:

fichero.txt

Ready.

Añadimos el fichero al stage (click en el icono a la izquierda del nombre cuando está en 'Unstaged Changes') y ya podemos hacer el commit que fusiona las versiones de A y B





Y ya podemos empujar este nuevo commit al repositorio remoto

# Contenido

- Áreas de git
- Clonar el repositorio
- Configurar git
- Añadir ficheros al stage
- Creando commits
- Push
- Pull = Fetch from origin + Merge local
- Resolución de conflictos
- Revertir errores usando checkout

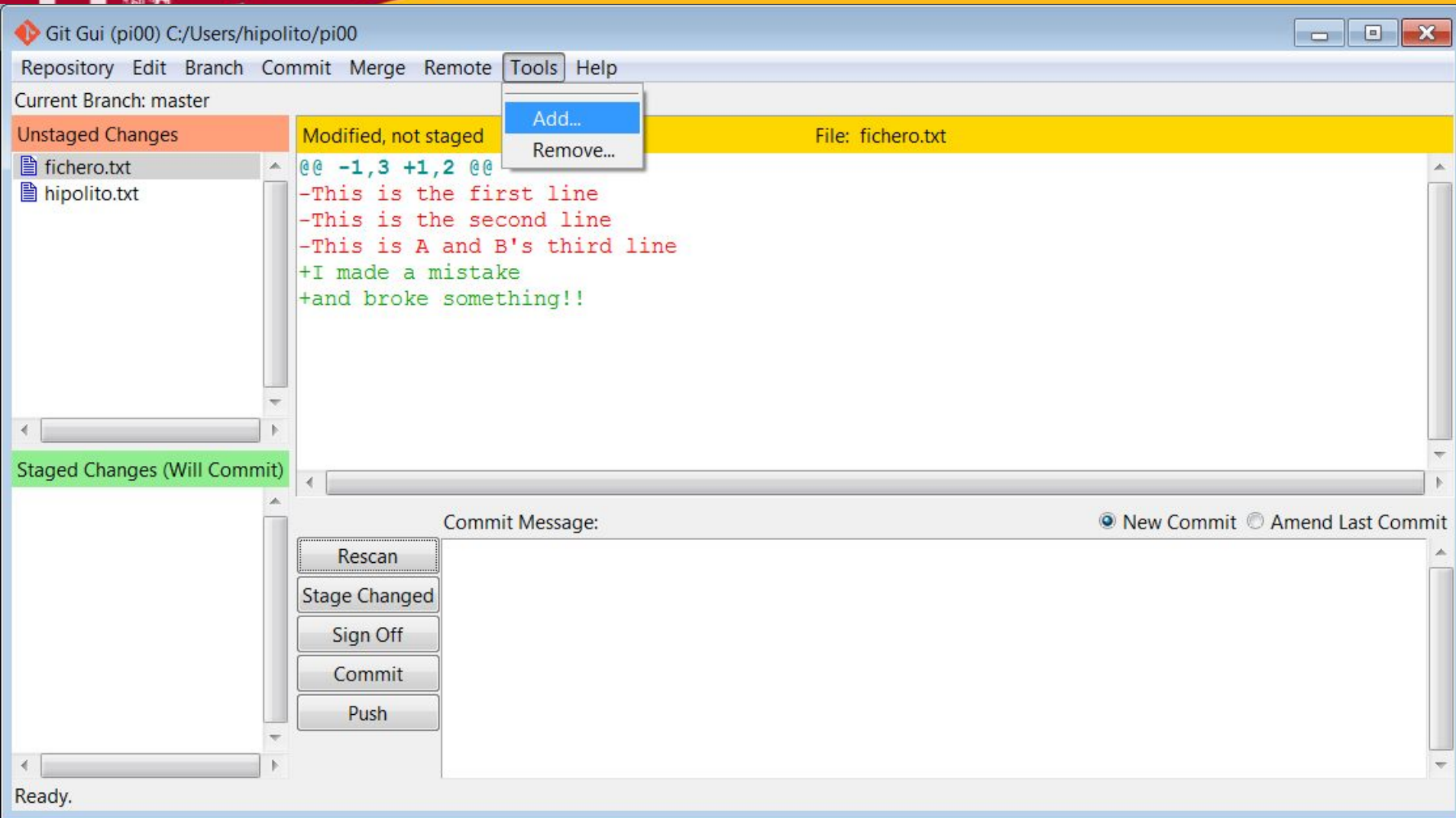
# Revertir errores usando checkout

A screenshot of the Git GUI application window. The title bar reads 'Git Gui (pi00) C:/Users/hipolito/pi00'. The menu bar includes 'Repository', 'Edit', 'Branch', 'Commit', 'Merge', 'Remote', 'Tools', and 'Help'. Below the menu bar, it says 'Current Branch: master'. The main area is divided into two sections: 'Unstaged Changes' and 'Staged Changes (Will Commit)'. The 'Unstaged Changes' section shows a list of files: 'fichero.txt' and 'hipolito.txt'. The 'Staged Changes' section is currently empty. In the center, a diff view for 'fichero.txt' shows the following changes:

```
@@ -1,3 +1,2 @@  
-This is the first line  
-This is the second line  
-This is A and B's third line  
+I made a mistake  
+and broke something!!
```

Below the diff view, there is a 'Commit Message:' field with radio buttons for 'New Commit' (selected) and 'Amend Last Commit'. To the left of the message field are several buttons: 'Rescan', 'Stage Changed', 'Sign Off', 'Commit', and 'Push'. At the bottom left, it says 'Ready.'.

# Revertir errores usando checkout



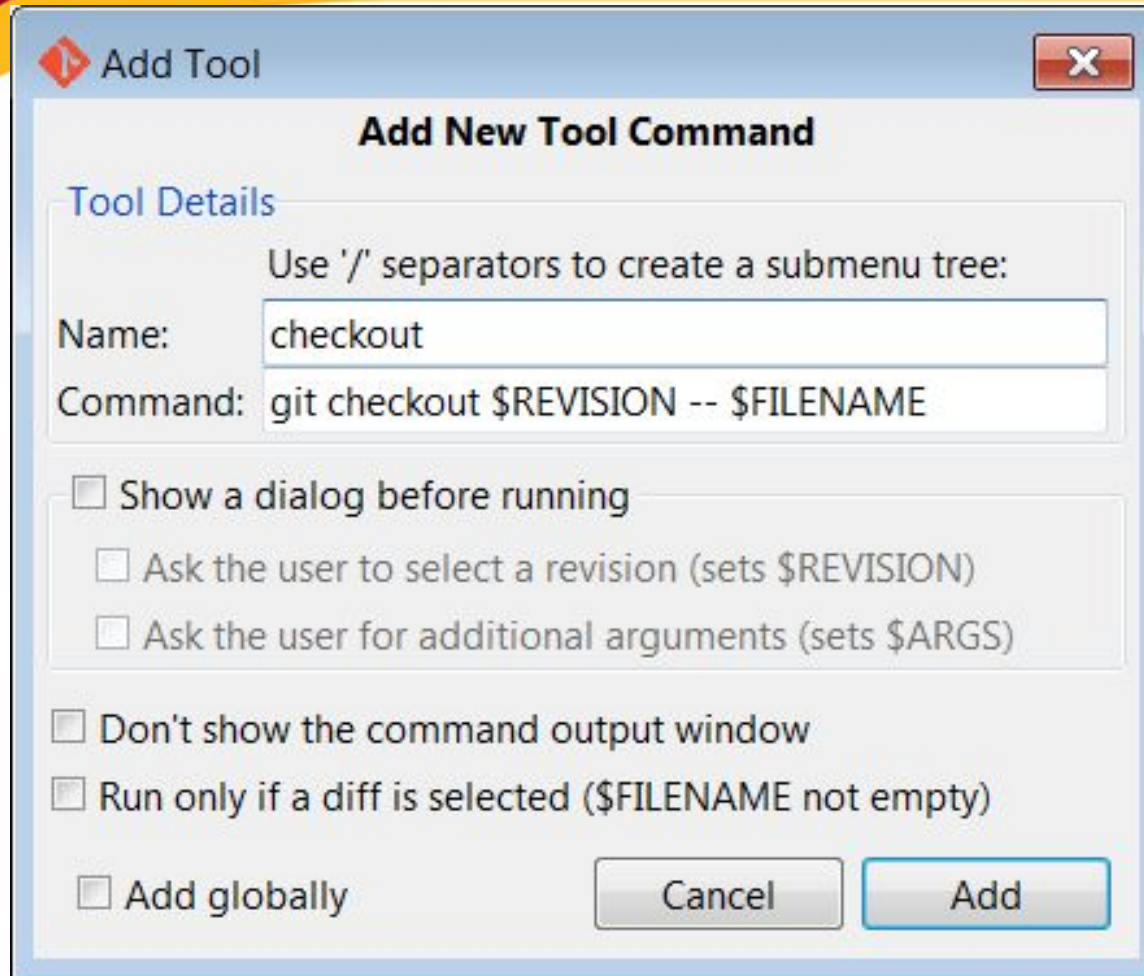
The screenshot shows the Git GUI interface for a repository located at C:/Users/hipolito/pi00. The current branch is master. The interface is divided into several sections:

- Unstaged Changes:** A list on the left shows files 'fichero.txt' and 'hipolito.txt'. The main area displays a diff for 'fichero.txt' with the following content:

```
@@ -1,3 +1,2 @@  
-This is the first line  
-This is the second line  
-This is A and B's third line  
+I made a mistake  
+and broke something!!
```
- Staged Changes (Will Commit):** This section is currently empty.
- Commit Message:** A text area for entering a commit message, with radio buttons for 'New Commit' (selected) and 'Amend Last Commit'.
- Buttons:** A vertical stack of buttons on the left includes 'Rescan', 'Stage Changed', 'Sign Off', 'Commit', and 'Push'.
- Tools Menu:** A 'Tools' menu is open, showing 'Add...' and 'Remove...' options.

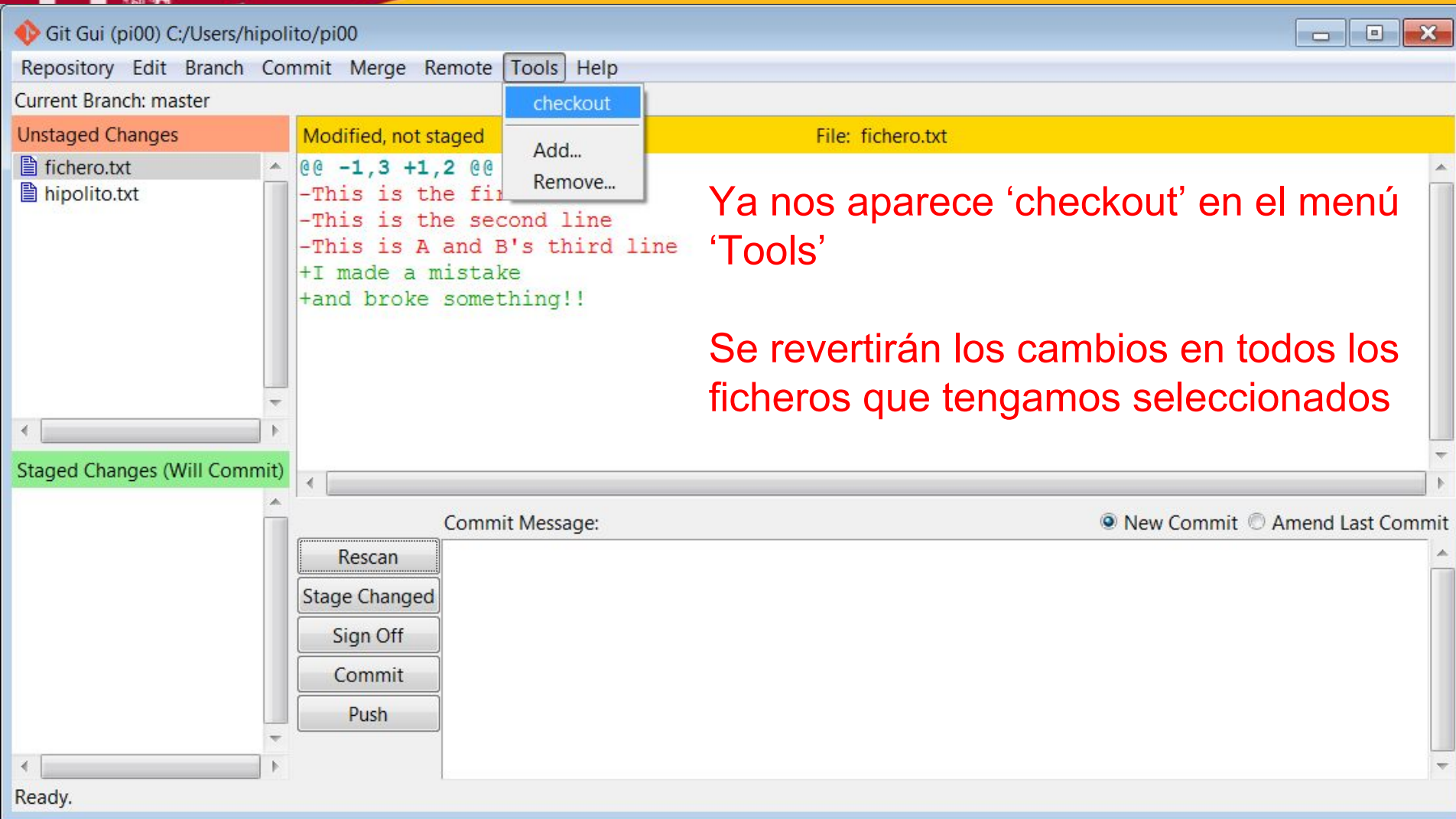
The status bar at the bottom left indicates 'Ready.'.

# Revertir errores usando checkout



(Sólo tenemos que añadir el comando si no lo tenemos de antes)

# Revertir errores usando checkout



The screenshot shows the Git GUI interface. The 'Tools' menu is open, and the 'checkout' option is highlighted. The main window displays the file 'fichero.txt' with the following content:

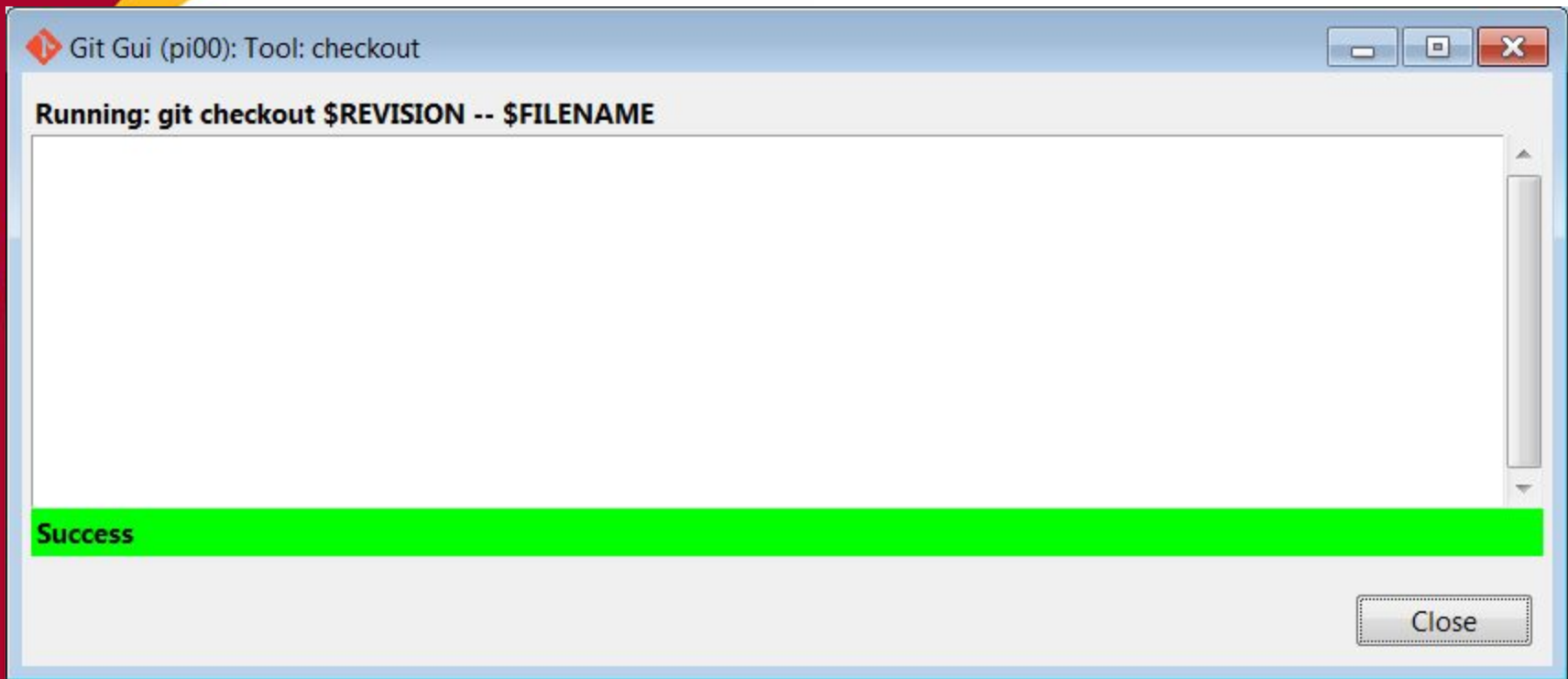
```
@@ -1,3 +1,2 @@  
-This is the first line  
-This is the second line  
-This is A and B's third line  
+I made a mistake  
+and broke something!!
```

The interface also shows the 'Unstaged Changes' list with 'fichero.txt' and 'hipolito.txt', and the 'Staged Changes (Will Commit)' section. The 'Commit Message' field is empty, and the 'New Commit' radio button is selected.

Ya nos aparece 'checkout' en el menú 'Tools'

Se revertirán los cambios en todos los ficheros que tengamos seleccionados



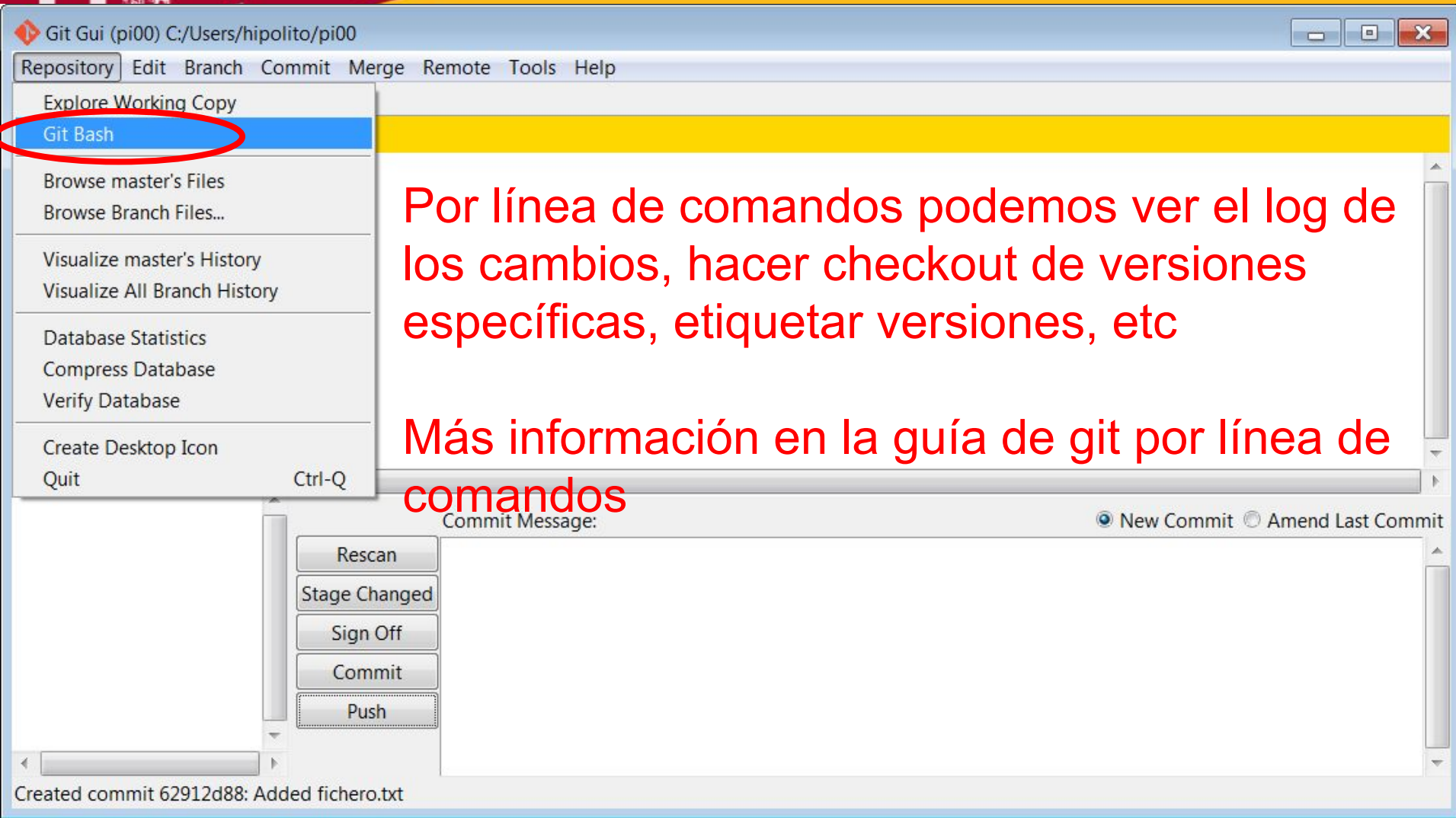


Tras esto, los ficheros que hayamos 'checked out' estarán igual que la versión del repo

# Para profundizar



# Para profundizar



Por línea de comandos podemos ver el log de los cambios, hacer checkout de versiones específicas, etiquetar versiones, etc

Más información en la guía de git por línea de comandos

**Valor... y al repo!**

