



ULPGC
Universidad de
Las Palmas de
Gran Canaria

Iniciación a GitHub

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Audiovisual

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email

```
graph TD; email[idafen.santana@ulpgc.es] --- Name[idafen]; email --- Lastname[santana]; email --- Work[ulpgc]; email --- Spain[es];
```

idafen.santana@ulpgc.es

Name

Last name

Work

Spain

Materiales del curso

```
graph TD; A[Materiales del curso] --> B[https://idafensp.github.io/github/]; B --> C[Mi usuario GH]; B --> D[GH pages]; B --> E[Directorio]; C --> F[Repositorio GH]; D --> F; E --> F;
```

<https://idafensp.github.io/github/>

Mi usuario GH

GH pages

Directorio

Repositorio GH

The background is a solid blue color. On the left side, there are several overlapping, semi-transparent blue curved shapes that create a layered, organic effect. These shapes are primarily located in the left third of the image, extending from the top to the bottom.

ESTRUCTURA

Iniciación a GitHub

Día 1

- Introducción al curso
- Git
 - Conceptos y aplicaciones
 - Repositorios
 - Commit
 - Revisión de historial



Iniciación a GitHub

Día 1

- Plataforma GitHub
 - Introducción a GitHub
 - Creación de cuenta GitHub
 - Creación de un repositorio
 - Notación markdown
 - Push & Pull
- Propuesta de ejercicio



Iniciación a GitHub

Objetivo Día 1

- Saber que es Git
 - Comandos básicos
- Saber que es GitHub como plataforma
- Conceptos
 - Repositorio
 - Edición y actualizar código en GitHub
- **Práctico**



Iniciación a GitHub

Día 2

- Corrección de ejercicios
- Creación de un Proyecto colaborativo
 - Ramas y Forks
 - Pull Requests y Merges
 - Gestión de conflictos en GitHub
 - Gestión de Issues
- Conclusiones y resumen del curso



Iniciación a GitHub

Objetivo Día 2

- Concepto de Branch
 - Branch vs Fork
- Crear y cambiar de rama
- Integrar código
- Concepto de Issue
 - Documentación y gestión de issues
- **Práctico**
 - **Individual y colectivo**



The background is a solid blue color. On the left side, there are several overlapping, semi-circular or curved shapes in different shades of blue, creating a layered, organic effect. The text is positioned in the center-right area of the image.

¿PREGUNTAS?



¿GIT?
¿GITHUB?



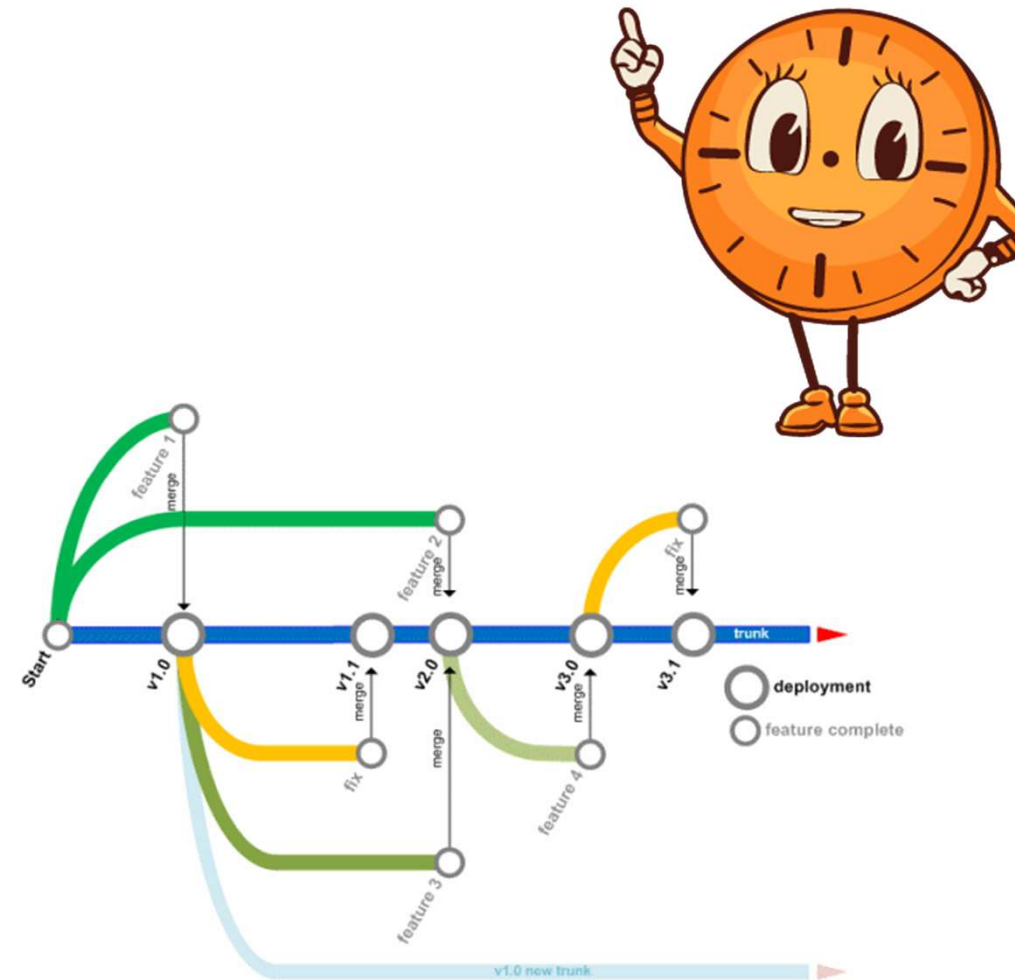
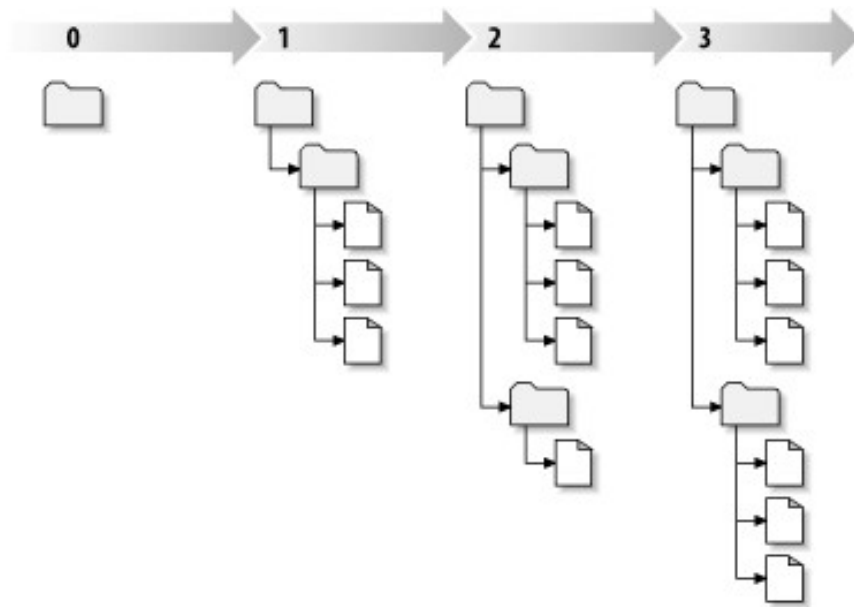
GIT

GIT es un Sistema de Control de Versiones

El **control de versiones** es un sistema que registra los **cambios** realizados sobre un archivo o conjunto de archivos a lo **largo del tiempo**, de forma que se puedan recuperar **versiones** anteriores en cualquier momento.



Control de versiones



Git

- Sistema de control de versiones distribuido
 - Sin necesidad servidor central
 - Trabajo offline
 - Trabajo independiente y coordinación posterior
 - Todas las copias de un proyecto tienen el historial completo
 - **Git registra cambios, no versiones**



Git

Conceptos básicos

- **Working directory**
Solo puede haber una versión activa
- **Repository**
Contiene todas las versiones y las relaciones entre ellas.



Git

Conceptos básicos

- **HEAD**

Puntero a la versión con la que estamos trabajando. La que tenemos en nuestro directorio de trabajo.

- **Master / Main**

Es la rama principal sobre la que debe ir creciendo el desarrollo.

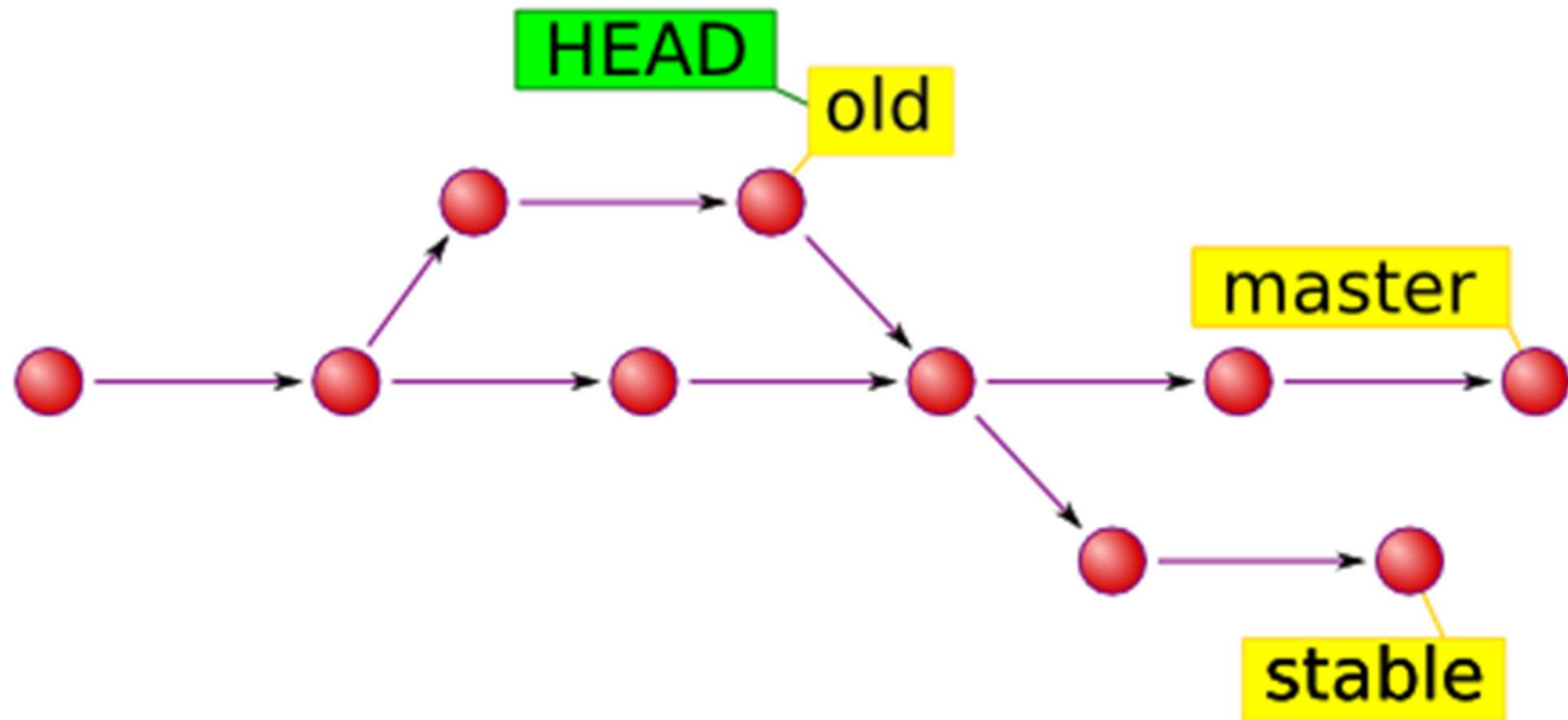
- **Branch**

Son ramas secundarias sobre las que se crean nuevas funcionalidades



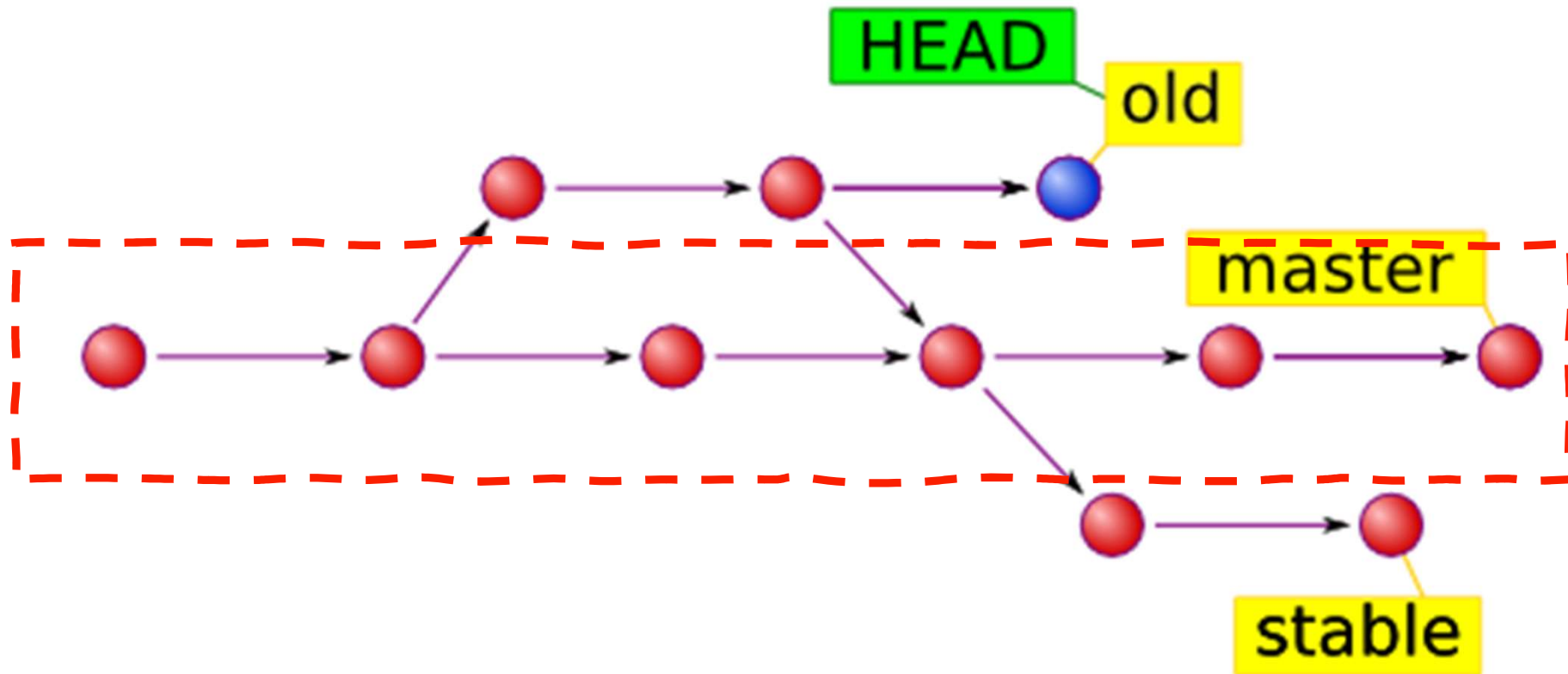
Git

HEAD y Ramas



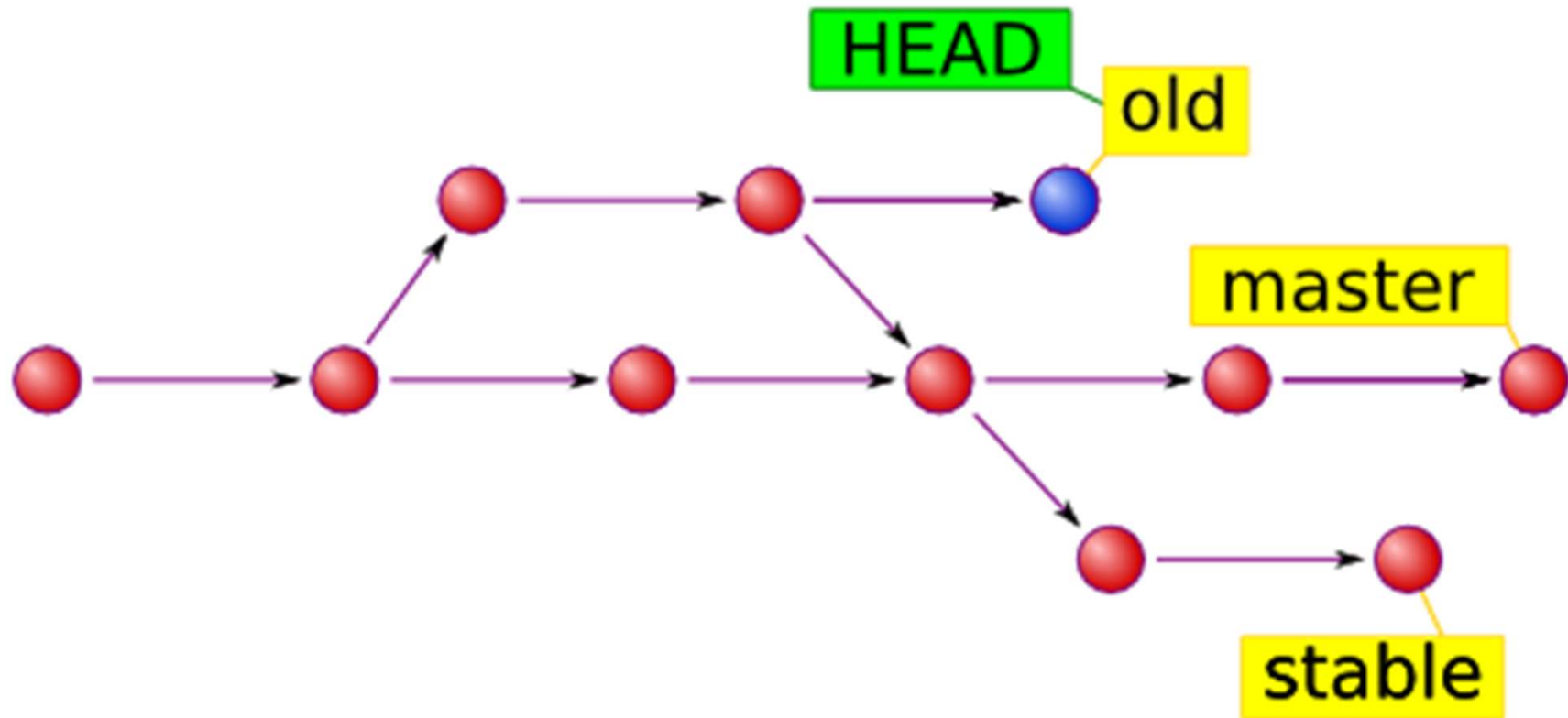
Git

HEAD y Ramas



Git

HEAD y Ramas



GitHub

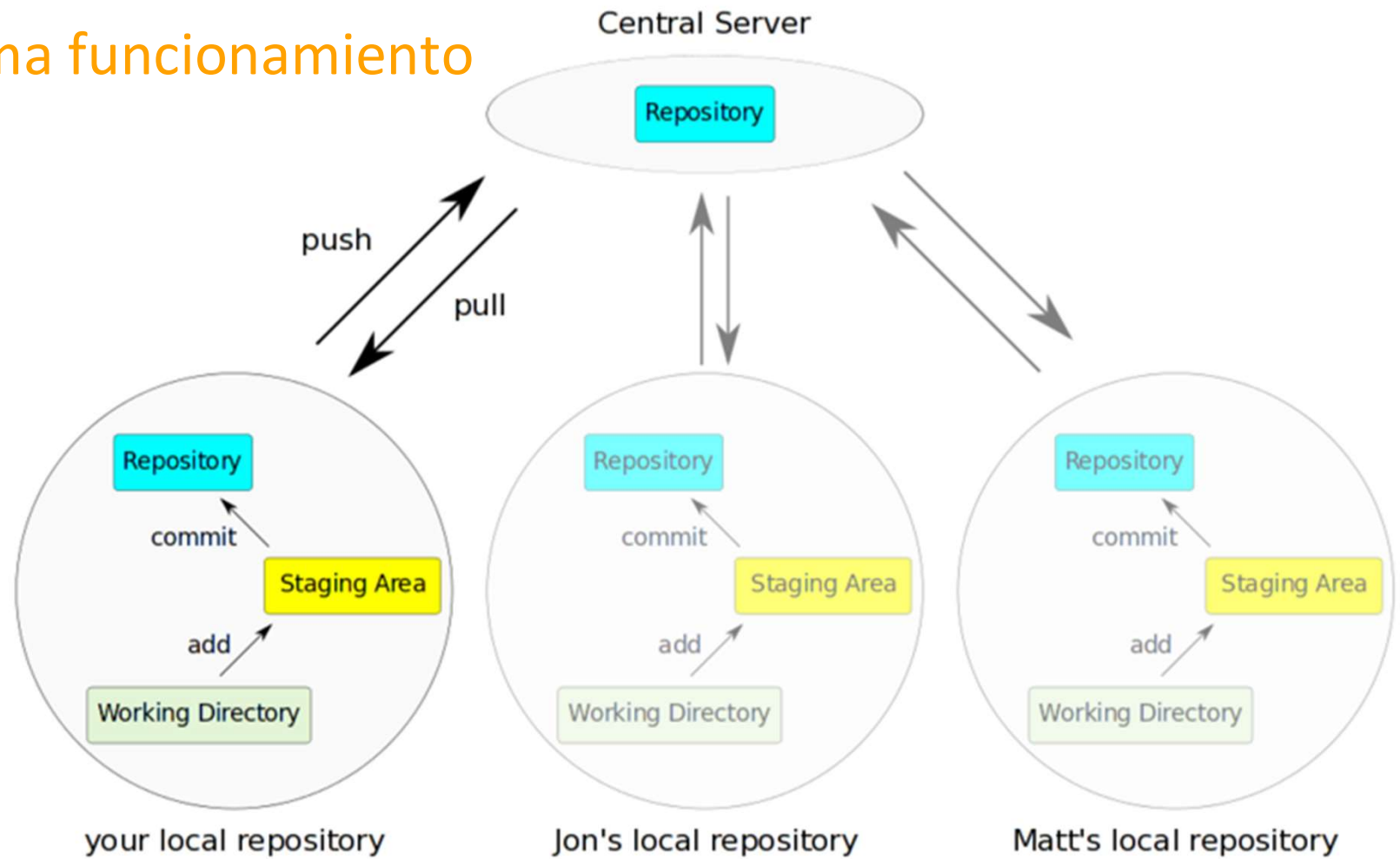
Historia

- <http://github.com>
- Desde 2008
- Plataforma online de gestion de repositories Git
- Proveedor mas popular de Git
- Git como “red social”
- Gratis y de pago
- Microsoft 2018 (\$7.500 mill.)



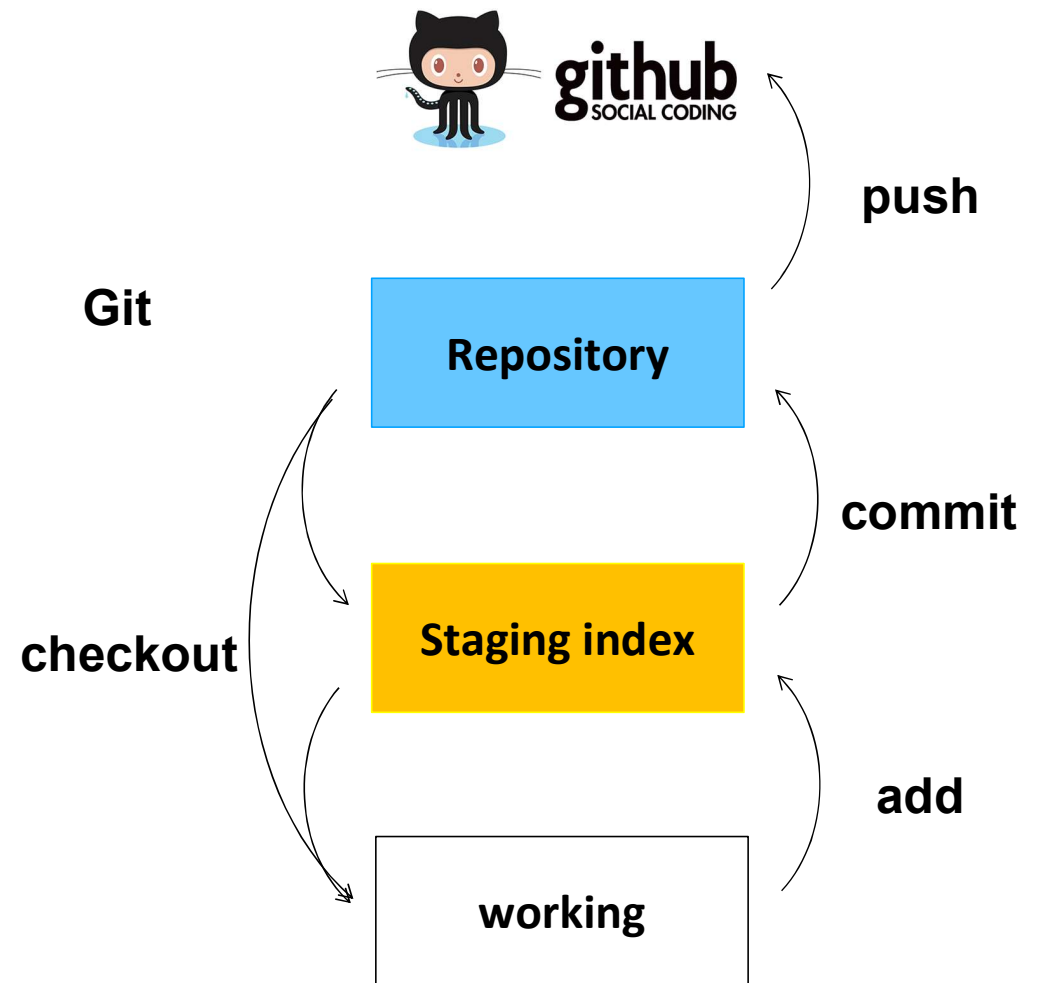
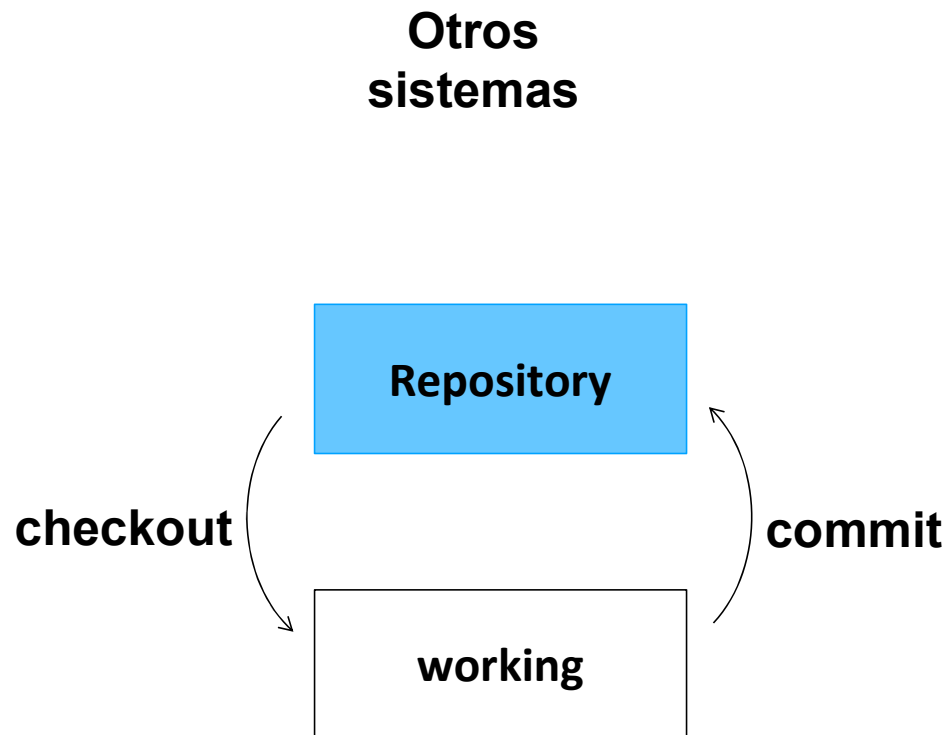
GitHub

Esquema funcionamiento



Git

Conceptos básicos



GitHub

Log4Shell

- <https://github.com/apache/logging-log4j2/pull/607/commits/2731a64d1f3e70001f6be61ba5f9b6eb55f88822>

The screenshot shows a GitHub pull request page for the repository 'apache / logging-log4j2'. The pull request is titled 'LOG4J2-3198: Log4j2 no longer formats lookups in messages by default #607' and is in a 'Closed' state. It was created by 'carterkozak' and aims to merge one commit into the 'apache:release-2.x' branch. The page displays various statistics: 111 watchers, 1.1k forks, 2.2k stars, 41 pull requests, 12 conversations, 1 commit, 14 checks, and 11 files changed. A green 'Review changes' button is visible. On the right side, there is a sidebar with a search bar and several news items, including one about a 'disclosure' and another about 'Cybersecurity'.





¿PREGUNTAS?

The background is a solid orange color. On the left side, there are several overlapping, curved shapes in lighter shades of orange, creating a layered, organic effect. The word "FORK" is centered in the middle of the image.

FORK

GitHub

Usando un repositorio común

- <https://docs.github.com/es/pull-requests/collaborating-with-pull-requests/working-with-forks/about-forks>
- **Fork:** es una copia de un repositorio. *Permiten realizar cambios en un proyecto sin afectar el repositorio original.*



GitHub

Usando un repositorio común

- Fork: vamos a crear una copia del repositorio
 - <https://docs.github.com/es/get-started/quickstart/fork-a-repo>
- Vamos al repositorio
 - <https://github.com/idafensp/gh-eii-repos>
 - Hacemos un fork

👁 Watch ▼ 39

★ Star 42

🍴 Fork 33



GitHub

Ejercicio final



- Fork del repo: <https://github.com/idafensp/gh-eii-repos>
- Esto nos crea nuestra copia <https://github.com/<USUARIO>/gh-eii-repos>
- Clone, add, commit, push (a tu fork)
 - **O en la misma interfaz de Github**
- Modificar el fichero lista.md (formato markdown)
 - Tu usuario Github y link a **tu repo** (en una línea)
 - [corsario85](https://github.com/corsario85/prueba-gh-eii)
- Hacemos un ***pull request***



GitHub

Ejercicio final



Two screenshots of a GitHub repository page for `corsario85 / gh-eii-repos`, which is a fork of `idafensp/gh-eii-repos`. The repository is public and has 0 stars, 0 forks, and 2 forks.

The top screenshot shows the repository page with the `Code` button highlighted in a red box. The `Code` button is located in the top right corner of the repository header.

The bottom screenshot shows the repository page with the `main` branch selected and the `Code` button highlighted in a red box. The `Code` button is located in the top right corner of the repository header.

The repository page includes the following sections:

- About:** Lista de repositorios de alumnos del curso de GitHub EII 2021. Apache-2.0 License.
- Releases:** No releases published. Create a new release.
- Packages:** No packages published. Publish your first package.

The repository files list shows:

| File | Commit | Time |
|-----------|----------------|------------|
| LICENSE | Initial commit | 2 days ago |
| README.md | Initial commit | 2 days ago |
| lista.md | otro | 2 days ago |

The README.md file contains the text: `gh-eii-repos` and `Lista de repositorios de alumnos del curso de GitHub EII 2021`.



GitHub

Ejercicio final





corsario85 / gh-eii-repos Public Watch

forked from idafensp/gh-eii-repos

[Code](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

main gh-eii-repos / lista.md Go to file ...

corsario85 Añadiendo lista corsario85 Latest commit 0455a1d now [History](#)

2 contributors  

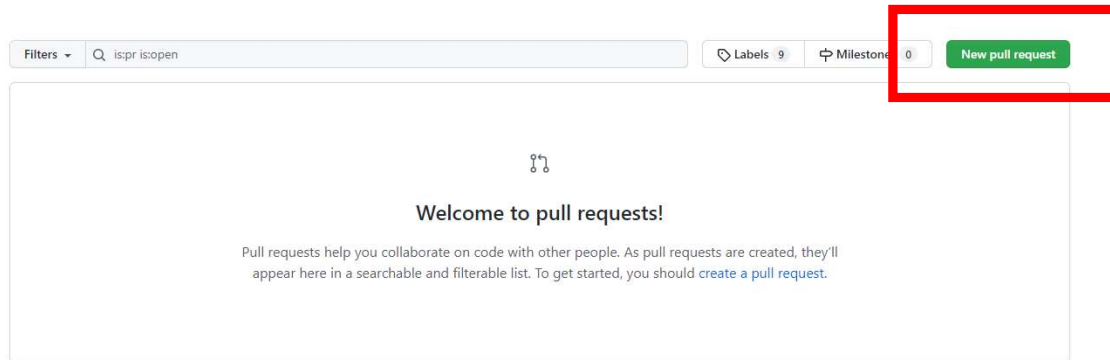
1 lines (1 sloc) | 58 Bytes Code Raw Blame Download Edit Trash

corsario85



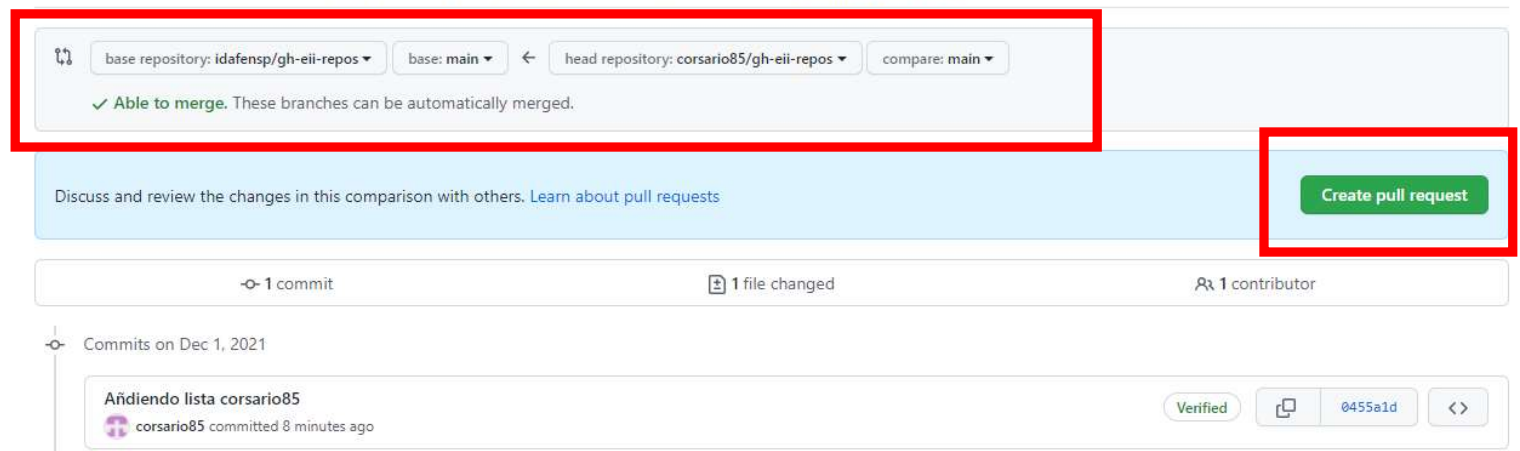
GitHub

Ejercicio final



Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).



GitHub

Ejercicio final



Añdiendo lista corsario85 #1

Open corsario85 wants to merge 1 commit into `idafensp:main` from `corsario85:main`

Conversation 0 Commits 1 Checks 0 Files changed 1

corsario85 commented now

No description provided.

Añdiendo lista corsario85 Verified 0455a1d

Add more commits by pushing to the `main` branch on `corsario85/gh-eii-repos`.

This branch has no conflicts with the base branch
Only those with [write access](#) to this repository can merge pull requests.

Write Preview

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Close pull request Comment

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).



GitHub

Ejercicio final



idafensp / gh-eii-repos Public

Unwatch 1

Code Issues **Pull requests 1** Actions Projects Wiki Security Insights Settings

Label issues and pull requests for new contributors
Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#) [Dismiss](#)

Filters is:pr is:open Labels 9 Milestones 0 [New pull request](#)

☐ 1 Open ✓ 0 Closed

Author Label Projects Milestones Reviews Assignee Sort

☐ **Añdiendo lista corsario85**
#1 opened 1 minute ago by corsario85

ProTip! Exclude your own issues with `-author:idafensp`.




GitHub

Ejercicio final

Añdiendo lista corsario85 #1

 Open corsario85 wants to merge 1 commit into idafensp:main from corsario85:main 

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1





corsario85 commented 3 minutes ago

First-time GitHub contributor



No description provided.

  Añdiendo lista corsario85

Verified

0455a1d

Add more commits by pushing to the `main` branch on `corsario85/gh-eii-repos`.



Continuous integration has not been set up

[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.



This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).




Write

Preview

H B I       @  

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

 Close pull request

Comment



GitHub

Resultados

Update lista.md #15

 **Open** albbamartin wants to merge 1 commit into `idafensp:main` from `albbamartin:patch-1` 

 Conversation 0  Commits 1  Checks 0  Files changed 1



albbamartin commented yesterday

First-time contributor



No description provided.

  Update lista.md

Verified

9b3d20a

Add more commits by pushing to the `patch-1` branch on `albbamartin/gh-eii-repos`.



This branch has conflicts that must be resolved

Use the [web editor](#) or the [command line](#) to resolve conflicts.

Conflicting files

lista.md

Resolve conflicts

Merge pull request



You can also open this in [GitHub Desktop](#) or view [command line instructions](#).



GitHub

Ejercicio final

Update lista.md #15

Resolving conflicts between `albbamartin:patch-1` and `idafensp:main` and committing changes → `albbamartin:patch-1`



| 1 conflicting file | lista.md |
|--|---|
| <div> <div>lista.md</div> <div>lista.md</div> </div> | <pre> 1 [corsario85](https://github.com/corsario85/prueba-gh-eii) 2 [XxMARRExX](https://github.com/XxMARRExX/gh-eii-repos) 3 [OscarRicoRo](https://github.com/OscarRicoRo/github-eii) 4 [KrishT97](https://github.com/KrishT97/gh-eii-repos) 5 [JuanCarlosAcostaPeraba](https://github.com/JuanCarlosAcostaPeraba/github-taller-iniciacion) 6 [HéctorWood](https://github.com/ImBlackWoody/gh-eii-repos.git) 7 [o-love](https://github.com/o-love/github-workshop-december-2021) 8 [JoelClemente](https://github.com/JoelClemente/githubdial) 9 [AmbarJade](https://github.com/AmbarJade/Prueba-2) 10 [carlillous](https://github.com/carlillous/prueba-gh-eii) 11 [Alvaro00000000](https://github.com/Alvaro00000000/prueba-gh-eii) 12 [SullivanMG](https://github.com/SullivanMG/prueba-curso) 13 <<<<<< patch-1 14 [albbamartin](https://github.com/albbamartin/gh-eii-repos) 15 ===== 16 [DanielMG](https://github.com/DanielMG/github1) 17 >>>>>> main 18 </pre> |





GitHub

Ejercicio final



Update lista.md #15

 **Open** albbamartin wants to merge 1 commit into `idafensp:main` from `albbamartin:patch-1` 


Conversation 0 Commits 1 Checks 0 Files changed 1


 albbamartin commented yesterday First-time contributor  ...


No description provided.

  Update lista.md Verified 9b3d20a

Add more commits by pushing to the `patch-1` branch on `albbamartin/gh-eii-repos`.

 **Continuous integration has not been set up**
GitHub Actions and [several other apps](#) can be used to automatically catch bugs and enforce style.

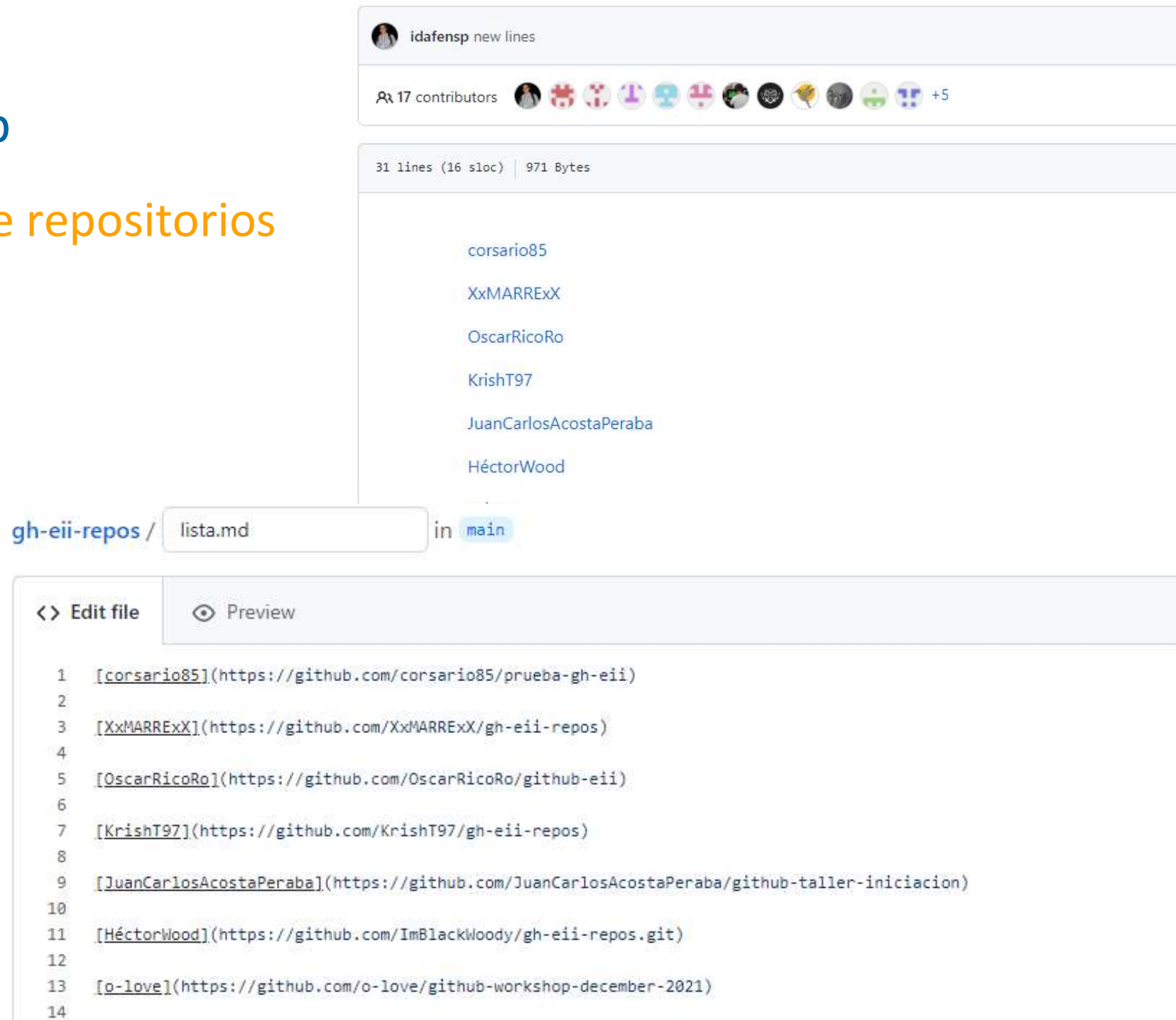
 **This branch has no conflicts with the base branch**
Merging can be performed automatically.

 **Merge pull request** You can also [open this in GitHub Desktop](#) or [view command line instructions](#).



GitHub

Lista de repositorios



The screenshot displays a GitHub repository page for 'gh-eii-repos'. At the top, a commit by 'idafensp' is shown with the message 'new lines'. Below this, a list of 17 contributors is displayed. The main content area shows a file named 'lista.md' with 31 lines (16 sloc) and 971 Bytes. The file content lists several GitHub repositories and their URLs. The bottom of the image shows the 'Edit file' and 'Preview' tabs, with the 'Preview' tab selected, displaying the rendered markdown content.

idafensp new lines

17 contributors

31 lines (16 sloc) 971 Bytes

[corsario85](#)

[XxMARRExX](#)

[OscarRicoRo](#)

[KrishT97](#)

[JuanCarlosAcostaPeraba](#)

[HéctorWood](#)

gh-eii-repos / lista.md in main

<> Edit file Preview

```
1 [corsario85](https://github.com/corsario85/prueba-gh-eii)
2
3 [XxMARRExX](https://github.com/XxMARRExX/gh-eii-repos)
4
5 [OscarRicoRo](https://github.com/OscarRicoRo/github-eii)
6
7 [KrishT97](https://github.com/KrishT97/gh-eii-repos)
8
9 [JuanCarlosAcostaPeraba](https://github.com/JuanCarlosAcostaPeraba/github-taller-iniciacion)
10
11 [HéctorWood](https://github.com/ImBlackWoody/gh-eii-repos.git)
12
13 [o-love](https://github.com/o-love/github-workshop-december-2021)
14
```



The background is a solid blue color. On the left side, there are several overlapping, semi-transparent blue curved shapes that create a layered, organic effect. These shapes are lighter in color than the main background blue.

¿PREGUNTAS?

The background is a solid blue color. On the left side, there are several overlapping, semi-transparent blue shapes that resemble stylized waves or abstract organic forms. These shapes are in various shades of blue, creating a layered effect.

CALENTAMIENTO/REPASO

GitHub

Nuestro repositorio

- Vamos a actualizar **nuestro repo** (cada uno el suyo)
- Iniciamos sesión en GH y abrimos el Shell (e.g. Gitbash)
 - [Clonamos si hace falta]
 - Vamos al directorio del repositorio (i.e. working directory)
 - Comprobamos historial y estado
 - Añadimos un nuevo fichero *bye.py*
 - *print("bye bye world")*
 - Add, commit, push



Bash (CLI)

Comandos útiles

- **pwd** en que directorio estoy, muestra la ruta
- **cd** cambia el directorio
 - *cd gh-repo*
 - *cd .. (sube un directorio)*
- **ls** lista de elementos en un directorio
 - *ls -l (en formato lista)*
 - *ls -a (muestra los archivos ocultos)*
- **mv** mover un fichero
 - *mv hello.py.txt hello.py (renombrar un fichero)*



GitHub

Nuestro repositorio

- Vamos a actualizar **nuestro repo** (cada uno el suyo)
- Iniciamos sesión en GH y abrimos el Shell (e.g. Gitbash)
 - [Clonamos si hace falta]
 - Vamos al directorio del repositorio (i.e. working directory)
 - Comprobamos historial y estado
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 - `print("bye bye world")`
 - Add, commit, push



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¿PREGUNTAS?

The background is a solid orange color. On the left side, there are several overlapping, curved shapes in lighter shades of orange, creating a layered, organic effect. The word "BRANCHING" is centered in the middle of the image.

BRANCHING

Git

Conceptos básicos

- **HEAD**

Puntero a la versión con la que estamos trabajando. La que tenemos en nuestro directorio de trabajo.

- **Master / Main**

Es la **rama** principal sobre la que debe ir creciendo el desarrollo.

- **Branch**

Son ramas secundarias sobre las que se crean nuevas funcionalidades



Git

Branch

- **Puntero a un commit**
 - Parte de un histórico de commits
- Todo repositorio tiene al menos una rama (main)
- **HEAD** nos indica en que rama estamos
 - Cambiar de rama es mover el HEAD
- *git branch*
- *git checkout*
- *git merge*



Git

Branch

- git branch
 - Inspeccionar y crear ramas
- git checkout
 - Cambiar la rama activa
- git merge
 - Combinar una rama con la rama activa
- Ejemplo interactivo de Branching
 - <https://learngitbranching.js.org/>





¿PREGUNTAS?

BRANCH vs. FORK

GitHub

Branch vs. Fork

- Fork es una copia del proyecto
 - Concepto de GitHub (o GitLab), no de Git
 - Equivalente en Git a copiar y pegar el directorio de código
- Fork cuando queremos lanzar un nuevo proyecto con la misma base, pero divergente
 - Un fork puede volver (*pull request*)
- **Branch cuando queremos añadir nuevos elementos al proyecto, para luego converger**



The image features a solid blue background. On the left side, there are several overlapping circles of varying shades of blue, creating a layered, abstract effect. Centered horizontally and slightly above the vertical midpoint is the text "GITHUB BRANCHING" in a bold, orange, sans-serif font.

GITHUB BRANCHING

GitHub

Branch

- Vamos a trabajar en **nuestro proyecto**
- Debemos tenerlo clonado en nuestro ordenador
 - Gitbash
 - Vamos al working directory
- Comprobamos cuantas ramas hay
 - *git branch*



GitHub

Branch

- Creamos una nueva rama, llamada *curso*
 - *git branch curso*
- Cambiamos a la rama *curso*
 - *git checkout curso*
- Cambiamos el fichero README y hacemos add y commit en *curso*
 - Comprobamos las diferencias entre ramas
 - *git diff curso main*



GitHub

Branch

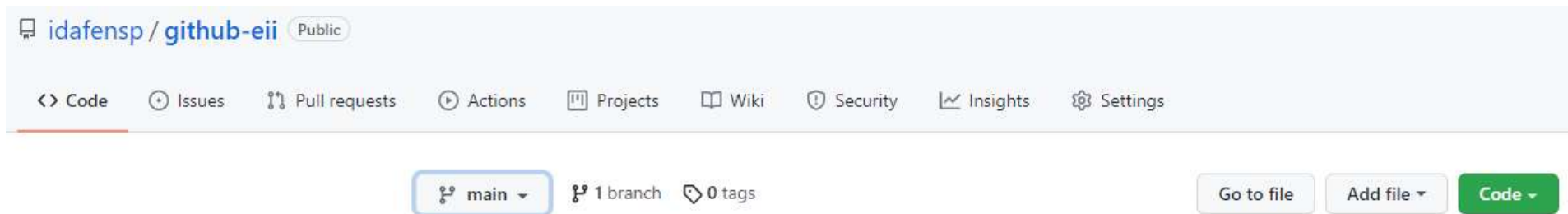
- Incorporamos los cambios **de *curso* en la rama *main***
 - *git checkout main (me voy a la rama main)*
 - *git merge curso (desde main incorporo los cambios)*
- Subimos los cambios a GitHub
 - *git push*
- Compruebo los cambios en GitHub
 - No debería haber una rama nueva



GitHub

Branch

- No hemos subido nada a nuestra nueva rama (*curso*)
 - Todos los cambios han convergido en local a *main*



GitHub

Branch

- Vamos a la rama curso
 - Creamos un nuevo fichero o modificamos README
- Add y commit
- Push en curso
 - Sin cambiar de rama
 - *git push*
 - ¿Error?
 - *git push --set-upstream origin curso*



GitHub

Branch

- Ahora si tenemos una rama nueva

The screenshot shows the GitHub repository page for `idafensp / github-eii` (Public). The repository has 2 branches and 0 tags. The `main` branch is selected. A dialog box titled "Switch branches/tags" is open, showing a search bar "Find or create a branch..." and a list of branches: `main` (checked, default) and `curso`. A "View all branches" link is at the bottom of the list. The commit history on the right shows 7 commits, with the latest commit `e2839da` made 26 minutes ago.

| Commit Hash | Commit Message | Time Ago |
|-------------|---------------------------|----------------|
| e2839da | | 26 minutes ago |
| | Initial commit | 19 days ago |
| | Initial commit | 19 days ago |
| | new comment | 26 minutes ago |
| | Modificamos mensaje hello | 13 days ago |



GitHub

Branch

- Main vs. Curso

The screenshot shows the GitHub repository 'github-eii' on the 'main' branch. The repository has 2 branches and 0 tags. The commit history shows a new comment on README.md 27 minutes ago. The README.md file is displayed, showing the title 'github-eii' and the content 'Repositorio de ejemplo curso iniciación a Github EII 2021' and 'Le hago un cambio desde la nueva rama curso'.

main 2 branches 0 tags

Go to file Add file Code

Ifpadel new comment e2839da 27 minutes ago 7 commits

| | | |
|------------|---------------------------|----------------|
| .gitignore | Initial commit | 19 days ago |
| LICENSE | Initial commit | 19 days ago |
| README.md | new comment | 27 minutes ago |
| hello.py | Modificamos mensaje hello | 13 days ago |

README.md

github-eii

Repositorio de ejemplo curso iniciación a Github EII 2021

Le hago un cambio desde la nueva rama curso

The screenshot shows the GitHub repository 'github-eii' on the 'curso' branch. The repository has 2 branches and 0 tags. A red box highlights the message 'This branch is 1 commit ahead of main.' and the 'Contribute' button. The commit history shows a new file added 21 minutes ago. The README.md file is displayed, showing the title 'github-eii' and the content 'Repositorio de ejemplo curso iniciación a Github EII 2021' and 'Le hago un cambio desde la nueva rama curso'.

curso 2 branches 0 tags

Go to file Add file Code

This branch is 1 commit ahead of main. Contribute

Ifpadel add new file 85ed949 21 minutes ago 8 commits

| | | |
|------------|---------------------------|----------------|
| .gitignore | Initial commit | 19 days ago |
| LICENSE | Initial commit | 19 days ago |
| README.md | new comment | 28 minutes ago |
| hello.py | Modificamos mensaje hello | 13 days ago |
| new.py | add new file | 21 minutes ago |

README.md

github-eii

Repositorio de ejemplo curso iniciación a Github EII 2021

Le hago un cambio desde la nueva rama curso



GitHub

Branch

- Pull request Curso -> Main

The screenshot shows a GitHub repository page for a branch named 'curso'. At the top, there are buttons for 'Go to file', 'Add file', and 'Code'. Below these, a message states 'This branch is 1 commit ahead of main.' A 'Contribute' dropdown menu is open, showing a message: 'This branch is 1 commit ahead of main. Open a pull request to contribute your changes upstream.' with buttons for 'Compare' and 'Open pull request'. The 'Open pull request' button is highlighted with a red box. Below the notification, a table lists the files in the repository:

| File | Commit Message | Time |
|------------|---------------------------|----------------|
| .gitignore | Initial commit | |
| LICENSE | Initial commit | |
| README.md | new comment | |
| hello.py | Modificamos mensaje hello | 13 days ago |
| new.py | add new file | 23 minutes ago |



The background is a solid blue color. On the left side, there are several overlapping, semi-transparent blue curved shapes that create a layered, organic effect. These shapes are lighter in color than the main background blue.

¿PREGUNTAS?

GESTIÓN DE CONFLICTOS

GitHub

Conflictos de cambios

- ¿Qué pasas si hay dos cambios diferentes en dos ramas, en la misma línea de un fichero?
 - Al intentar hacer el merge tendremos un **conflicto**
 - Git nos lo indicará en el fichero en cuestión

```
Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main)
$ git merge tests
Auto-merging conflict.py
CONFLICT (content): Merge conflict in conflict.py
Automatic merge failed; fix conflicts and then commit the result.

Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main|MERGING)
$ cat conflict.py
<<<<<<< HEAD
print("This is a conflict")
=====
print("Hay conflicto")
>>>>>> tests
```



GitHub

Conflictos de cambios

- Soluciones
 - Modificar el fichero para dejar el contenido que quiero y commit del fichero
 - Abortar el merge *git merge --abort*
 - Herramientas merge externas
- Buenas prácticas
 - Merge a menudo
 - Hacer commits pequeños y directos al problema
 - Actualizar tu rama de trabajo frecuentemente



GitHub

Conflictos de cambios

- Creamos una rama *test*
 - *git branch test*
- Nos movemos a la rama *test*
 - *git checkout test*
- Todo junto: *git checkout -b test*



GitHub

Conflictos de cambios

- Modificamos el *hello.py* (test)
 - `print("Morning world!")`
 - `Git add + commit`
- Cambiamos a rama *main*
- Modificamos el *hello.py* (main)
 - `print("Buenos dias mundo!")`
 - `Git add + commit`
- `git diff main test`



```
Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main)
$ git diff main test
diff --git a/hello.py b/hello.py
index 98a0ecc..b538eb0 100644
--- a/hello.py
+++ b/hello.py
@@ -1,1 @@
- print("Buenos dias mundo!")
+ print("Morning world!")
```



GitHub

Conflictos de cambios



- Merge de cambios
 - Tenemos 2 ramas con dos commits divergentes
 - Esto nos debería generar un conflicto
- Desde *main*
 - *git merge test*

```
Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main)
$ git merge test
Auto-merging hello.py
CONFLICT (content): Merge conflict in hello.py
Automatic merge failed; fix conflicts and then commit the result.

Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main|MERGING)
$ cat hello.py
<<<<<<< HEAD
print("Buenos dias mundo!")
=====
print("Morning world!")
>>>>>>> test
```



GitHub

Conflictos de cambios

- Modificamos el fichero *hello.py*
 - Nos quedamos con los cambios que queremos en main
- Git add + commit hello.py



```
Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main|MERGING)
$ git add hello.py
```

```
Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main|MERGING)
$ git commit -m "solve merge issue"
[main 94d1926] solve merge issue
```

```
Idafen Santana Perez@DESKTOP-P6T8IPR MINGW64 ~/Desktop/test-gh/github-eii (main)
$ git merge test
Already up to date.
```





¿PREGUNTAS?



ISSUES

GitHub

Issues

- Forma de comunicarse mediante comentarios en GitHub
 - Una función para "rastrear ideas, mejoras, tareas o errores".
- **Discusión**, seguimiento del progreso
 - En torno al código
- Repositorio público: cualquier persona con un nombre de usuario puede crear y comentar problemas.
- Repositorio privado: solo los usuarios con permiso pueden crear y comentar problemas, o verlos



GitHub

Issues

- <https://docs.github.com/es/issues/tracking-your-work-with-issues/creating-an-issue>

The screenshot shows the GitHub repository page for `idafensp / github-eii`. The repository is public. The navigation bar includes links for Code, Issues (highlighted with a red box), Pull requests, Actions, Projects, Wiki, Security, and Insights. Below the navigation bar, there is a notification box that says "Label issues and pull requests for new contributors" with a "Dismiss" button. The main content area shows filters for "is:issue is:open" and a "New issue" button (highlighted with a red box). The repository has 1 Unwatch, 1 Fork, and 0 Stars. The Issues section shows 0 Open and 0 Closed issues.



GitHub

Issues

- Título, contenido
- Asignar y etiquetar issue

Este repositorio no tiene sentido

Write Preview

H B I

El código esta mal estructurado, parece un ejemplo de un curso de la Ell

- [] @idafensp revisa la estructura y mejora el readme
- [] @corsario85 revisa tu último commit

Attach files by dragging & dropping, selecting or pasting them.

Styling with Markdown is supported

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Submit new issue

Assignees

idafensp

Labels

Projects

None yet

Milestone

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

Helpful resources

[GitHub Community Guidelines](#)



GitHub

Issues

- Gestión de issues

<> Code **Issues 1** Pull requests Actions Projects Wiki Security Insights ...

Label issues and pull requests for new contributors [Dismiss](#)

Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#)

Filters Labels 9 Milestones 0 [New issue](#)

1 Open ✓ 0 Closed

| <input type="checkbox"/> | Author ▾ | Label ▾ | Projects ▾ | Milestones ▾ | Assignee ▾ | Sort ▾ |
|--------------------------|-----------------------------------|---|------------|--------------|------------|--------|
| <input type="checkbox"/> | Este repositorio no tiene sentido | bug documentation enhancement | | | | |
| | #2 opened now by idafensp 2 tasks | | | | | |



GitHub

Issues

- Gestión de issues

The screenshot displays the GitHub interface for an issue in a repository named "Este repositorio no tiene sentido #2". The top navigation bar includes links for Code, Issues (1), Pull requests, Actions, Projects, Wiki, Security, Insights, and a menu icon. The issue title is "Este repositorio no tiene sentido #2", and it is marked as "Open" with 2 tasks. The issue was opened by "idafensp" 2 minutes ago and has 0 comments.

The main content area shows a comment by "idafensp" (Owner) from 2 minutes ago. The comment text is "El código esta mal estructurado, parece un ejemplo de un curso de la EII". Below the comment, there are two tasks listed: "@idafensp revisa la estructura y mejora el readme" and "@corsario85 revisa tu último commit".

On the right side, there are sections for Assignees (idafensp), Labels (bug, documentation, enhancement), Projects (None yet), Milestone (No milestone), Linked pull requests (Successfully merging a pull request may close this issue), and Notifications (Unsubscribe). The "Close issue" button is highlighted with a red box.



GitHub

Manejando Issues en commits

- Podemos hacer referencia a una Issue en un commit
 - Toda issue tiene un número (id)
 - #X hace referencia a la issue X
 - *git commit -m "Corregimos parte de la issue #3"*



GitHub

Manejando Issues en commits

- Podemos incluso cerrar issues desde el commit
 - fixes #xxx
 - fixed #xxx
 - fix #xxx
 - closes #xxx
 - close #xxx
 - closed #xxx
- GH Issues 2.0 <https://github.blog/2011-04-09-issues-2-0-the-next-generation/>



GitHub

Issues



- Abrimos una Issue en nuestro proyecto GitHub
 - E.g. “Falta nombre de autor en el README”
- Anotamos el número de Issue
- Cambiamos algo en nuestro proyecto, relacionado con la issue
 - E.g: añadimos el nombre del autor/a en el README
- Add + Commit + Push
 - `git commit -m “Fix #X”` (X es el número de Issue)
- Comprobamos que la Issue se cierra en GH



GitHub

Issues

- Referenciando líneas de código

The screenshot shows the GitHub interface for a file named `main.py` in the repository `github-eii`. The file content is as follows:

```
1 def hola(name):  
2     print("Hola {}".format(name))  
3  
4 hola("Idafen")
```

Three red boxes highlight the process of referencing a line of code:

- The first box highlights line 2 of the code.
- The second box highlights the three-dot menu icon to the left of line 2.
- The third box highlights the context menu that appears after clicking the icon, with the option **Reference in new issue** highlighted in blue.

The context menu options are:

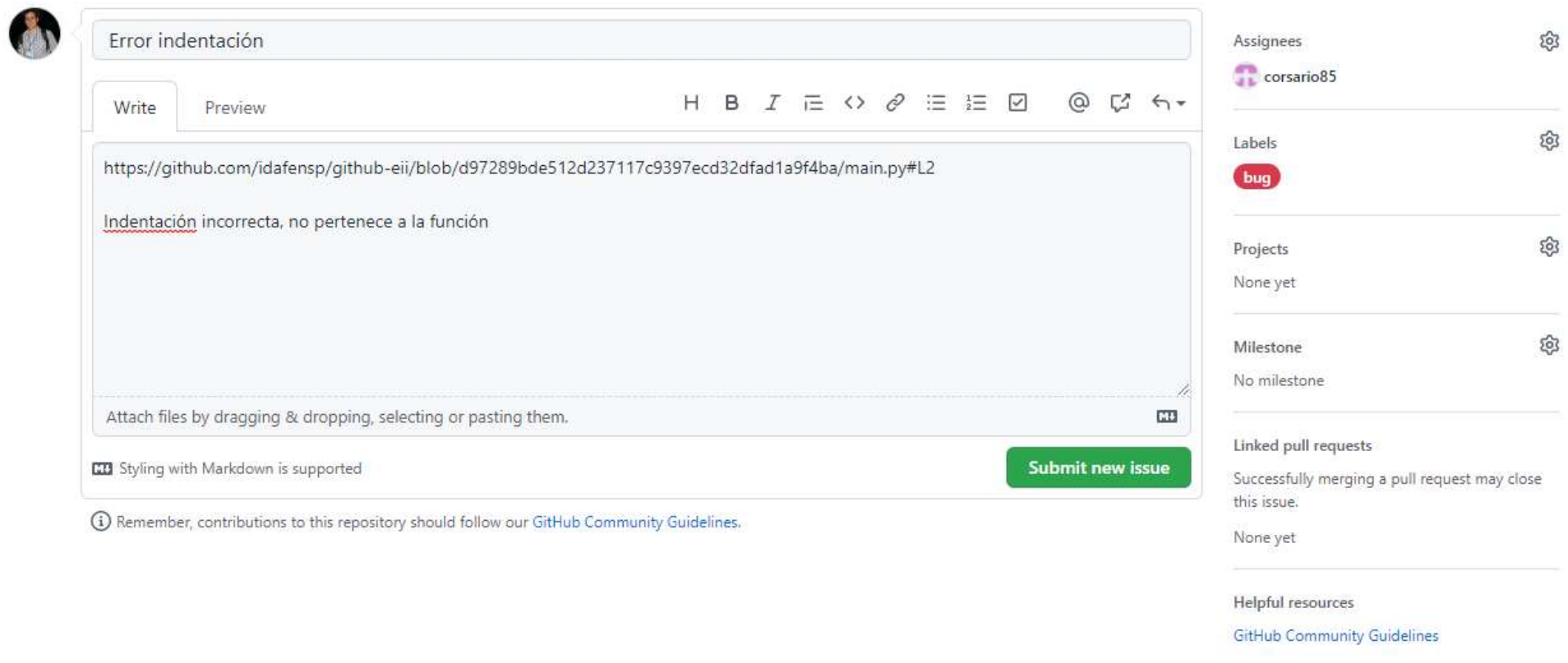
- Copy line
- Copy permalink
- View git blame
- Reference in new issue**

The footer of the page includes the GitHub logo and navigation links: Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About.

GitHub

Issues

- Referenciando líneas de código



The screenshot shows the GitHub 'New issue' form. The title is 'Error indentación'. The body contains a URL to a blob in a repository and a message about incorrect indentation. The form includes a rich text editor with a toolbar, a file upload area, and a 'Submit new issue' button. On the right, there are sections for Assignees (corsario85), Labels (bug), Projects (None yet), Milestone (No milestone), Linked pull requests, and Helpful resources (GitHub Community Guidelines).

Error indentación

Write Preview

<https://github.com/idafensp/github-eii/blob/d97289bde512d237117c9397ecd32dfad1a9f4ba/main.py#L2>

Indentación incorrecta, no pertenece a la función


Attach files by dragging & dropping, selecting or pasting them.

Styling with Markdown is supported


Submit new issue

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Assignees

 corsario85

Labels

 bug

Projects

None yet

Milestone

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

Helpful resources

[GitHub Community Guidelines](#)






GitHub

Issues

- Referenciando líneas de código

Error indentación #3



 **Open** idafensp opened this issue now · 0 comments



 idafensp commented now Owner  

[github-eii/main.py](#)
Line 2 in d97289b

```
2   print("Hola {}".format(name))
```

Indentación incorrecta, no pertenece a la función

  idafensp added the **bug** label now

  idafensp assigned corsario85 now



GitHub

Issues

- A la caza del error
 - <https://github.com/idafensp/github-eii>
- Fichero *hunt.py*
 - Intentar buscar problemas en el código
 - Reportarlos como issues
 - Intentar referenciar las líneas de código
 - Un issue por cada error
 - Asignar a *idadensp*, etiquetar como corresponda





PREGUNTAS

Iniciación a GitHub

Objetivo Día 2

- Concepto de Branch
 - Branch vs Fork
- Crear y cambiar de rama
- Integrar código
- Concepto de Issue
 - Documentación y gestión de issues
- **Práctico**
 - **Individual y colectivo**



Iniciación a GitHub

Futuro

- Git y GitHub son plataformas muy amplias
 - **Learn by doing**
- Busquen proyectos existentes en los que colaborar
 - Pidan ser colaboradores
 - Demostrar capacidad de trabajo con un fork
- Flujos de trabajo Git
- Construir un CV con GitHub
- **Curso de GitHub avanzado**





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¡Gracias!



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Iniciación a GitHub

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10/12/2021