

Integración de las herramientas de “Github Education” en el aula

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Problemas de Algunos LMS (Moodle principalmente)

- Sufrimos mucho cuando la red va lenta
- Debería poder hacer múltiples cambios en local y subirlos cuando la red esté disponible
- Debería poder recuperar versiones anteriores de ficheros, tareas, cursos, etc.
- Debería permitir formas mas ricas de colaboración entre los agentes:
- entre profesores,
- entre profesores y alumnos,
- entre alumnos
- No funciona actualmente como servicio web de manera que se puedan automatizar tareas complejas
- El manejo de grupos y agrupaciones es poco flexible

Comunicados de interés para la comunidad universitaria

Incidencia en el Campus Virtual

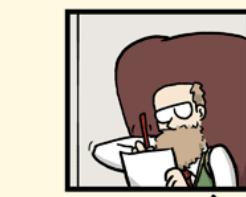
Debido a una incidencia en la infraestructura técnica que afectó al Campus Virtual y que se produjo ayer martes día 6, el contenido modificado o incorporado a las aulas virtuales pudiera no estar disponible, por lo que le recomendamos que revise las modificaciones que haya podido realizar desde ayer hasta hoy a las 09:00h (momento en el que se detectó y subsanó el problema) y si detecta alguna discrepancia actualice de nuevo la información de su aula virtual..

Sentimos las molestias que esta incidencia ha podido ocasionarles. Una vez identificada la causa, estamos trabajando para que no se repita en el futuro.

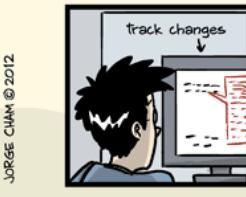
Francisco de Sande

Vicerrector de Tecnologías de la Información y Desarrollo Digital

"FINAL".doc



JORGE CHAM © 2012



¿Qué es GitHub?



GitHub es una plataforma que permite el alojamiento y desarrollo de proyectos

- Provee Control de Versiones
- Mecanismos de Colaboración

Nos permite trabajar colaborativamente en los proyectos desde cualquier sitio

Ejemplo: Elaboración de los apuntes de una asignatura

Escribe para buscar

≡ A

Twitter Facebook LinkedIn

Introduction

Angular

APIs de JS

Audio y Vídeo en JS

Babel ES6, ES7 y ES8

1. Proceso de Introducción de Nuev...

2. Babel

3. Funciones Flecha

4. Deconstrucciones

5. Operador de Dispersión

6. Iteradores

7. Nueva sintaxis en bucles for

8. Operador bind

9. Import

10. Export

11. Async y Await

12. Integración de Babel con Gulp

4. Deconstrucciones

La asignación por deconstrucción es una expresión que nos permite extraer datos de Arrays u Objetos.

Uso con objetos

Para usarlo con objetos necesitamos indicar los nombres de las claves que queramos extraer.

```
function login (username, password) {
    // Hacer cosas
    console.log(username)
    console.log(password)
}

let argv = {
    username: 'Pepe',
    password: 'Patata'
    // Y otras cosas
}

let { username, password } = argv
```

Ejemplo: Elaboración de unos apuntes (18 alumnos colaborando)

Organización GitHub
ULL-ESIT-SYTW-1617

Nombre del repositorio:
Presentaciones-todos

Ficheros
y directorios
Del proyecto

The screenshot shows a GitHub repository page for 'ULL-ESIT-SYTW-1617 / presentaciones-todos'. The top navigation bar includes links for This repository, Search, Pull requests, Issues, Gist, Unwatch (17), Star (1), Fork (15), and Settings. Below the header, it displays 'Presentaciones finales de SYTW' with a link to <https://ull-esit-sytw-1617.github.io/>. The repository has 204 commits, 2 branches, 0 releases, and 18 contributors. A summary table lists recent commits by DanielRamosAcosta, including changes to scripts, txt files, .babelrc, .editorconfig, .gitignore, README.md, book.json, gulpfile.babel.js, package.json, and plugins.json, all made between 5 and 6 months ago. At the bottom, there's a section for 'Libro de las presentaciones de SYTW curso 2016/17' with links for Book, gh-pages, and Book Gitbook.

File	Description	Time Ago
scripts	Arreglando el script y generando el índice	6 months ago
txt	Merge pull request #52 from alu0100786330/eric	5 months ago
.babelrc	Primer Commit	6 months ago
.editorconfig	Añadido el .editorconfig y arregladas unas cosas	6 months ago
.gitignore	Eliminado el fichero temporal nohup.out	6 months ago
README.md	Puesto cómo sincronizar el fork	5 months ago
book.json	removing copy-code-button porque no funciona en gitbook site	6 months ago
gulpfile.babel.js	Actualizado el index y la fecha de la gente	6 months ago
package.json	Añadido el capítulo de Nayra	5 months ago
plugins.json	Haciendo la estructura inicial	6 months ago

<https://github.com/ULL-ESIT-SYTW-1617/presentaciones-todos>

Ejemplo: Elaboración de apuntes (Estadísticas de Seguimiento)

ULL-ESIT-SYTW-1617 / presentaciones-todos

Code Issues Pull requests Projects Wiki Pulse Graphs Settings

Contributors Traffic Commits Code frequency Punch card Network Members Dependents

Owners

ULL-ESIT-SYTW-1617

tania77 DanielRamosAcosta

Nov 13, 2016 – May 15, 2017

Contributions to master, excluding merge commits

Contributions: Commits

Filters is:issue is:closed Labels Milestones New Issue

Clear current search query, filters, and sorts

4 Open ✓ 19 Closed

- Dependencia bug #29 by alu0100406122 was closed on 9 Dec 2016 setup
- Audio y Vídeo en JS escribir capítulo #28 by DanielRamosAcosta was closed on 9 Dec 2016 book
- Shopify escribir capítulo #22 by DanielRamosAcosta was closed on 17 Dec 2016 book
- React escribir capítulo #21 by DanielRamosAcosta was closed on 22 Dec 2016 book
- Polymer escribir capítulo #20 by DanielRamosAcosta was closed on 27 Nov 2016 book
- Parallax v Materialize 2 escribir capítulo #19 by DanielRamosAcosta was closed on 27 Nov 2016 book

<https://github.com/ULL-ESIT-SYTW-1617/presentaciones-todos>

GitHub Education en 6 pasos

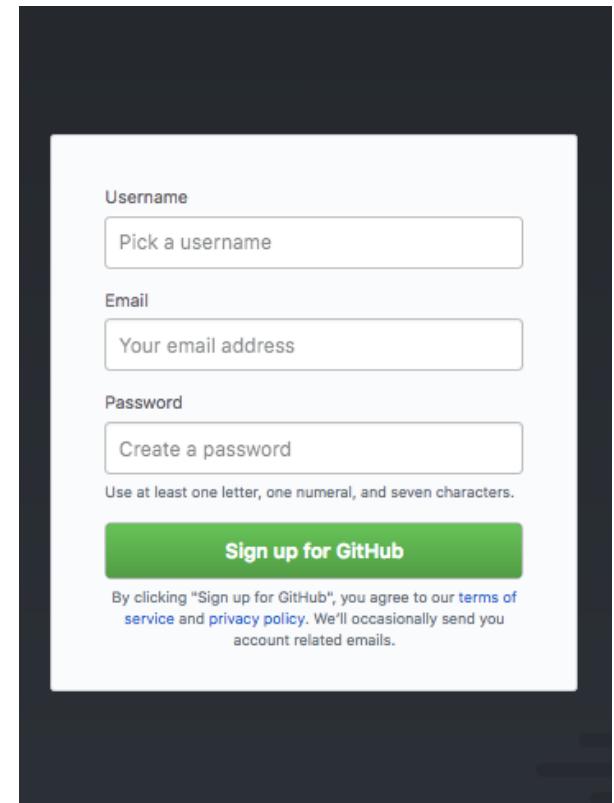
1. Tanto profesores como alumnos deben registrarse en GitHub
2. El profesor, cada curso crea una **organización** para cada clase que imparte
3. Asociada a cada organización crea un **aula** en **GitHub Classroom**
4. Solicita a GitHub **repositorios privados** para la organización
5. Crea tareas utilizando el **aula Classroom**. Cada tarea (**asignación**) tiene un enlace asociado
6. Publica el enlace a la tarea en el Campus Virtual

Registrarse en GitHub

<https://github.com>

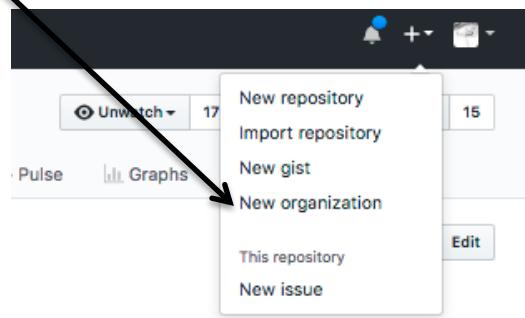
Usa el email institucional

usuario@ull.edu.es



Cada curso lectivo crea una organización para cada clase

Click!



Sign up your team

Completed Create personal account	Step 2: Create organization
--------------------------------------	--------------------------------

Create an organization account

Organization name

The organization account will live at <https://github.com/>

Billing email

Receipts will be sent here

Choose your plan

<input checked="" type="radio"/> Free Unlimited users and public repositories	\$0
--	-----

Cada curso lectivo crea una organización para cada clase

Sign up your team

Step 1: Set up the organization	Step 2: Invite members	Step 3: Organization details
------------------------------------	---------------------------	---------------------------------

Create an organization account

Organization name

ULL-ESIT-GRADOII-ASIGNAME

Organization accounts allow your team to plan, build, review, and ship software — all while tracking bugs and discussing ideas.

Billing email

susana.rodriguez.leon@gmail.com

Receipts will be sent here

Choose your plan

Free
Unlimited users and public repositories

\$0

Team
Starts at \$25 / month which includes your first 5 users.
Unlimited public repositories
Unlimited private repositories

\$9
per user / month

Business
Includes everything in the Team plan, plus:
SAML based single sign-on (SSO)
99.95% Guaranteed uptime SLA
24/5 email support with < 8 hour response time
Need help getting started or on-premises hosting? Contact us.

\$21
per user / month

This account is owned by a business (see the [Corporate Terms of Service](#) for details)

By clicking on "Create organization" below, you are agreeing to the [Terms of Service](#) and the [Privacy Policy](#).

Create organization

Click!



Invite organization members

Step 1: Set up the organization	Step 2: Invite members	Step 3: Organization details
------------------------------------	---------------------------	---------------------------------

Search by username, full name or email address

Continue

Organization members

- See all repositories [?](#)
- Create repositories
- Organize into teams
- Review code
- Communicate via @mentions

No invites a los alumnos todavía:
quizá a los otros profesores, aunque
Podrás hacerlo en cualquier momento

Cada curso lectivo creamos una organización para cada clase

Logo
Generado
por
defecto

The screenshot shows a GitHub organization page. At the top, there's a navigation bar with links for 'This organization', 'Search', 'Pull requests', 'Issues', 'Gist', and a '+' button. Below the navigation, the organization name 'ULL-ESIT-GRADOII-ASIGNAME' is displayed next to a blue and white logo consisting of a grid of squares. Underneath the name, there are buttons for 'Repositories' (which is selected and highlighted in orange), 'People 1', 'Teams 0', 'Projects 0', and 'Settings'. A callout arrow from the text 'Logo Generado por defecto' points to the logo. Another callout arrow from the text 'No tiene equipos' points to the 'Teams 0' button. A callout arrow from the text 'La organización ha sido creada pero no tiene repositorios' points to the 'Create a new repository' button. On the right side, there's a 'People' section showing one member: 'susanarodriguezleon' with a small profile picture. Below it is a 'Invite someone' button.

El único miembro es el profesor

La organización ha sido creada pero no tiene repositorios

Crea un aula en GitHub Classroom

The screenshot shows the GitHub Classroom landing page. At the top, there's a navigation bar with 'GitHub Classroom', 'GitHub Education', and 'Sign in'. Below the header, there's a row of icons: a book, a pencil, a graduation cap, two people, a calendar, and a speech bubble. The main title 'Your course assignments on GitHub' is displayed in large white text on a green background. A subtitle explains: 'GitHub Classroom automates repository creation and access control, making it easy to distribute starter code and collect assignments on GitHub.' Below this, there's a 'See how it works' button and a prominent blue 'Sign in with your GitHub account to get started' button. A black arrow points from the text 'Click!' on the right towards the 'Sign in' button. At the bottom of the page, there are three sections: 'Create assignments', 'Invite students', and 'Review progress', each with a brief description.

Click!

GitHub Classroom

GitHub Education Sign in

See how it works

Sign in with your GitHub account to get started

Your course assignments on GitHub

GitHub Classroom automates repository creation and access control, making it easy to distribute starter code and collect assignments on GitHub.

Create assignments

Distribute assignments with starter code. Students work on assignments individually or in groups using public or private GitHub repositories.

Invite students

Students gain access to assignments using unique invitation URLs, eliminating the need to collect GitHub usernames in advance and manage access manually.

Review progress

Teachers and teaching assistants can browse submissions by assignment, making it easy to follow along with student progress.

<https://classroom.github.com>

Autorizar a Classroom a acceder a nuestra cuenta de GitHub

Authorize application

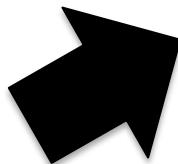
GitHub Classroom by @github would like permission to access your account

Review permissions

	Personal user data Email addresses (read-only)	
	Organization webhooks Admin access	
	Repositories Public and private	
	Delete repositories Ability to delete any admirable repository	
	Organizations and teams Admin access	

Authorize application

Click!



You're not managing any classrooms yet.

You can begin creating assignments once you have at least one classroom.

Create your first classroom

<https://classroom.github.com>

Crea un aula en GitHub Classroom

Select an organization for your new classroom

Oh, you don't have any organizations on your GitHub account

Please [create an organization on GitHub.com](#) and then come back.

Click!



💡 ProTip! Don't see your organization? You need to [grant us access](#) first.

Tienes que indicarle a GitHub que le permita a Classroom el acceso a la organización

Crea un aula en GitHub Classroom

Personal settings

Profile

Account

Emails

Notifications

Billing

SSH and GPG keys

Security

Blocked users

Repositories

Organizations

Saved replies

Authorized OAuth Apps

Authorized Integrations

Installed integrations

Developer settings

OAuth applications

...

GitHub Classroom

Last used within the last day Developed by [github](#) <https://classroom.github.com>

Permissions

- ✓ Full control of orgs and teams
- ✓ Full control of organization hooks
- ✓ Delete repositories
- ✓ Full control of private repositories
- ✓ Access user email addresses (read-only)

Revoke access

② Applications act on your behalf to access your data based on the permissions you grant them. Organizations control which applications are allowed to access their private data. Applications you authorize will always have access to public data in your organizations. [Read about third-party access](#).

Organization access

ULL-ESIT-GRADOII-ASIGNAME X

Grant access

En la configuración de tu cuenta dale permiso a Classroom para acceder a la organización

Crea un aula en GitHub Classroom

Nuestra aula ha sido creada

Select an organization for your classroom

Invite other administrators

1. Add them to your GitHub Organization

You must add them to the Organization as an Owner in order for them to have access.
You can do so at <https://github.com/orgs/ULL-ESIT-GRADOII-ASIGNNAME/people>

2. Give them this URL

After signing in, they will automatically be added to this classroom.

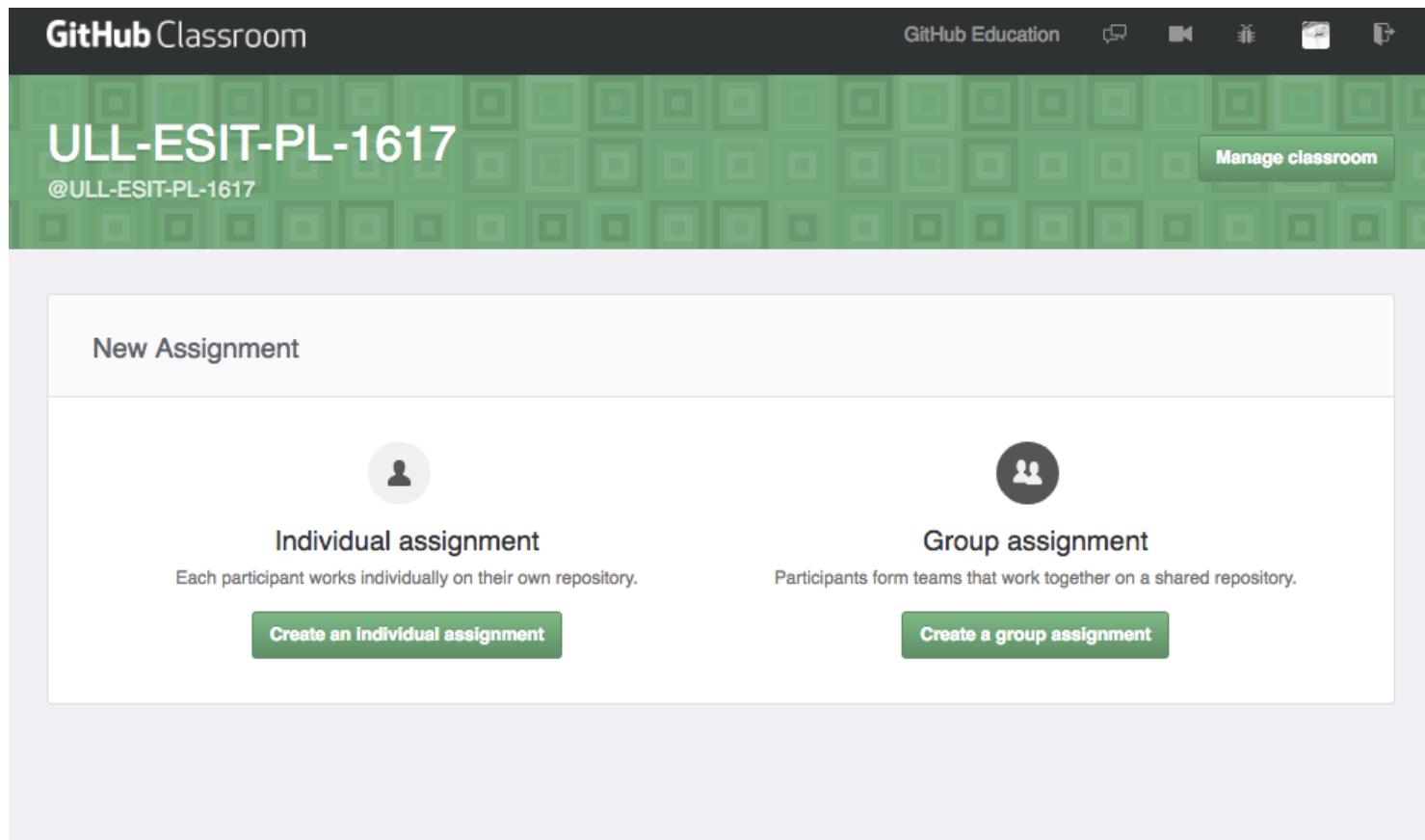
<https://classroom.github.com/classrooms/28709604-ull-esit-gradoii-asignname>

This organization doesn't have any assignments yet.

Click!

Ahora podemos añadir a otros profesores y crear nuevas asignaciones para los alumnos

Creando asignaciones en el aula



The screenshot shows the GitHub Classroom interface. At the top, it displays "GitHub Classroom" and "GitHub Education" along with various icons. Below this, the class name "ULL-ESIT-PL-1617" and its handle "@ULL-ESIT-PL-1617" are shown. A green "Manage classroom" button is visible. The main area is titled "New Assignment". It features two options: "Individual assignment" (represented by a single person icon) and "Group assignment" (represented by a group of people icon). Under each option, a brief description and a green "Create an individual assignment" or "Create a group assignment" button are provided. The background has a green square pattern.

Las asignaciones pueden ser individuales o en equipo

Creando una asignación en equipo

The screenshot shows the GitHub Classroom interface for creating a new group assignment. The title bar indicates the classroom name is "ULL-ESIT-PL-1617" and the user handle is "@ULL-ESIT-PL-1617". The main form has the following fields and options:

- Your assignment title:** A text input field with a placeholder icon.
- Your assignment repository prefix:** A text input field with a placeholder icon.
- Unlimited free private repositories:** A note explaining that if not applied for, unlimited free private repositories are available for this organization.
- Assignment submission type:** Radio buttons for "Public" (selected) and "Private".
- Repository permissions:** A checkbox for "Give students Admin permissions on their repository".
- Starter code repository search:** A text input field with a placeholder "Search repositories".

Titulo de la tarea

Prefiero darles
A los estudiantes
Permisos de
Administración
Sobre el repositorio
Que se les creará

Repo con el código
de partida

GitHub Classroom

ULL-ESIT-PL-1617

@ULL-ESIT-PL-1617

Manage classroom

New assignment

Assignments

Assignment Type	Description	URL	Action
Group	Tareas Iniciales Group assignment for Grupos de PL 16/17	https://classroom.github.com	Copy invitation link
Group	Primeros pasos en NodeJS Group assignment for Grupos de PL 16/17	https://classroom.github.com	Copy invitation link
Individual	Evaluacion Tareas Iniciales Individual assignment	https://classroom.github.com	Copy invitation link
Individual	Evalua Despliegue en Heroku Individual assignment	https://classroom.github.com	Copy invitation link
Group	Estudiar las Rutas en ExpressJS Group assignment for Grupos de PL 16/17	https://classroom.github.com	Copy invitation link
Individual	Evalua Rutas en ExpressJS Individual assignment	https://classroom.github.com	Copy invitation link

Las Asignaciones Tienen una URL asociada

Publicamos la URL de la asignación en el Campus Virtual

24 de abril - 30 de abril

PEGs

Apuntes de PEG.js

- [Introducción a los PEGs](#)
- [PEGJS](#)
- [La Calculadora Simple](#)

Repositorios

- [Ejemplos en PEGjs 0.10.0](#)
- [Descripción de la Práctica "Práctica: Analizador Usando PEG.js"](#)
- [Puede encontrar su asignación en GitHub en este enlace.](#)
- [Práctica: Analizador Usando PEG](#)

- [Práctica: Evaluar PEG](#)

Actualizando Taller en 24 de abril - 30 de abril ⓘ

▶ Expandir todo

▼ General

Nombre del taller*

Práctica: Analizador Usando PEG

Descripción

* [Descripción de la Práctica "Práctica: Analizador Usando PEG.js"](<https://casianorodriguezleon.gitbooks.io/ull-esit-1617/content/practicas/practicapegparser.html>)
* Puede encontrar su asignación en GitHub en este enlace] (<https://classroom.github.com/group-assignment-invitations/87f326e2212ec0a6ff8627ca5a6c76fb2>)

Formado Markdown

Muestra la descripción en la



Publicamos el enlace que provee Classroom
En el aula virtual de la asignatura

Vista de un alumno aceptando una asignación

- Tan pronto el alumno hace **click** en el enlace publicado en el campus virtual se le lleva a una página en la que se le pide aceptar la asignación
- Si acepta por primera vez es automáticamente añadido como miembro a la organización de la asignatura

The screenshot shows a GitHub assignment acceptance dialog. At the top, it displays the organization name 'ULL-ESIT-PL-1617' and its handle '@ULL-ESIT-PL-1617'. Below this, there is a large button with a user icon and the text 'Accept the Analizador Usando PEG assignment'. A black arrow points from the top-left towards this button. Below the button, there is explanatory text: 'Accepting this assignment will give your team access to the assignment repository in the @ULL-ESIT-PL-1617 organization on GitHub.' and 'Please be certain that the team you are selecting is the correct team as you cannot change this later'. Underneath, there is a section titled 'Join an existing team' with four listed teams: 'Airam-Jorge-Kevin 3 students', 'Guillermo-Eduardo-Óscar-Sergio 4 students', 'nicolas-ibrahim-david 4 students', and 'Oscar-Angel-Norberto 3 students'. Each team entry includes small profile icons and a 'Join' button.

Alumno aceptando una asignación

- Si la asignación fue configurada como tarea de equipo y es la primera vez que esto ocurre:
 - El primer alumno crea el equipo y le da nombre
 - Los restantes miembros que lleguen después se unen a ese equipo
- Los profesores siempre pueden cambiar los equipos, añadir y/o suprimir miembros a la organización, a los equipos, etc.
- Cuando se crea un asignación es posible reutilizar un anterior conjunto de equipos o crear uno nuevo

Nombre
De la
asignación

Vista del profesor de una asignación

The screenshot shows a list of five groups under the heading "Conjunto de equipos". Each group has a thumbnail icon and a name. To the right of each group is a blue link starting with "ULL-ESIT-PL-1617/analizador-usando-peg-...". Arrows from the left margin point to the first group's name and the first group's link.

Nombre de la asignación	Conjunto de equipos	Link de la asignación
Analizador Usando PEG	Airam-Jorge-Kevin	ULL-ESIT-PL-1617/analizador-usando-peg-airam-jorge-kevin
	nicolas-ibrahim-david	ULL-ESIT-PL-1617/analizador-usando-peg-nicolas-ibrahim-david
	Guillermo-Eduardo-Óscar-Sergio	ULL-ESIT-PL-1617/analizador-usando-peg-guillermo-eduardo-oscar-sergio
	Oscar-Angel-Norberto	ULL-ESIT-PL-1617/analizador-usando-peg-oscar-angel-norberto
	victor-pamela-jesus	ULL-ESIT-PL-1617/analizador-usando-peg-victor-pamela-jesus

Para cada equipo se crea un repositorio que es clonado a partir del que el profesor estableció en la asignación

Vista del profesor de las aulas

Nº de asignaciones individuales y de equipo En el aula

Podemos tener tantas aulas como necesitemos

El nombre del aula classroom Lo hago coincidir con el nombre De la organización

Vista del profesor de la Organización

The screenshot shows a GitHub organization dashboard for 'ULL-ESIT-PL-1617'. At the top left is a black box with 'PL' and '1617'. To its right is the organization name 'ULL-ESIT-PL-1617' and a link 'http://campusvirtual.ull.es'. Below this is a navigation bar with 'Repositories' (selected), 'People 46', 'Teams 28', 'Projects 1', and 'Settings'. A large arrow points from the text 'Configuración de la Organización' to the 'Settings' button. The main area displays repository cards for 'asignación', 'proyecto-pl-pedro-tarun-joaquin-abian' (private), 'evaluar-analisis-de-ambito-alu0100841565' (private), and 'evaluar-analisis-de-ambito-alu0100894325' (private). Each card includes a thumbnail, the repository name, 'Private' status, creation details ('created by GitHub Classroom'), language ('JavaScript'), and last update ('Updated 5 hours ago'). To the right are sections for 'Top languages' (JavaScript, HTML, Shell, CSS) and 'People' (46 members shown as icons). A green 'New' button is located above the people section.

Configuración de la Organización

Los alumnos Trabajan dentro De la organización. Todos los trabajos Del curso en un sitio

Podemos controlar Quien hizo qué Con gran detalle

Cada Alumno una web, cada Repo una web, cada Organización una web

The screenshot shows a web browser window with the URL <https://mdbgalvan.github.io>. The page is titled "Páginas WEBs para Prácticas" and specifies "Estudio: Grado en Informática" and "Alumna: María D. Batista Galván". The logo of the University of La Laguna (ULL) and the School of Computer Science (ETSII) are visible. The page has a yellow background with a large "INDICE" section containing a list of practicals:

- Introducción
- Procesadores de Lenguajes – PL
- Interfaces Inteligentes – II
- Sistemas de Interacción Persona Computador - HCI

Below the index, there is a section titled "• Introducción" which contains text about the practicals and their organization by subject. There is also a section titled "• Procesadores de Lenguajes" with a link to a specific practical.

Ejemplo de alumna: <https://mdbgalvan.github.io> Curso 2013/2014

Academic Discounts

<https://help.github.com/articles/applying-for-an-academic-research-discount/>

The screenshot shows a web browser displaying the GitHub Help article titled 'Applying for an academic research discount'. The URL in the address bar is <https://help.github.com/articles/applying-for-an-academic-research-discount/>. The page header includes the GitHub logo and a 'Version ▾' dropdown. The main content starts with a heading 'Teaching and learning with GitHub Education / Applying for an academic research di...'. Below it is the title 'Applying for an academic research discount'. A text block explains that academic researchers can apply for free 'Team plan' for organization accounts and 'Developer plan' for personal user accounts. It advises checking if the learning community is partnered with GitHub Education schools. A section titled 'To apply for an academic research discount, you must:' lists two requirements: having a personal user account and providing verifiable school-issued email or documents. It also notes that organization plans require organization accounts. The article concludes with information about automatic upgrades and reapplying after discounts expire.

GitHub Help Version ▾

Teaching and learning with GitHub Education / Applying for an academic research di...

Applying for an academic research discount

As an academic researcher, you can apply for a free [Team plan](#) for your organization account and a free [Developer plan](#) for your personal user account.

Before applying for an individual discount, check if your learning community is already partnered with us as a GitHub Education school. For more information, see "[About GitHub Education](#)."

To apply for an academic research discount, you must:

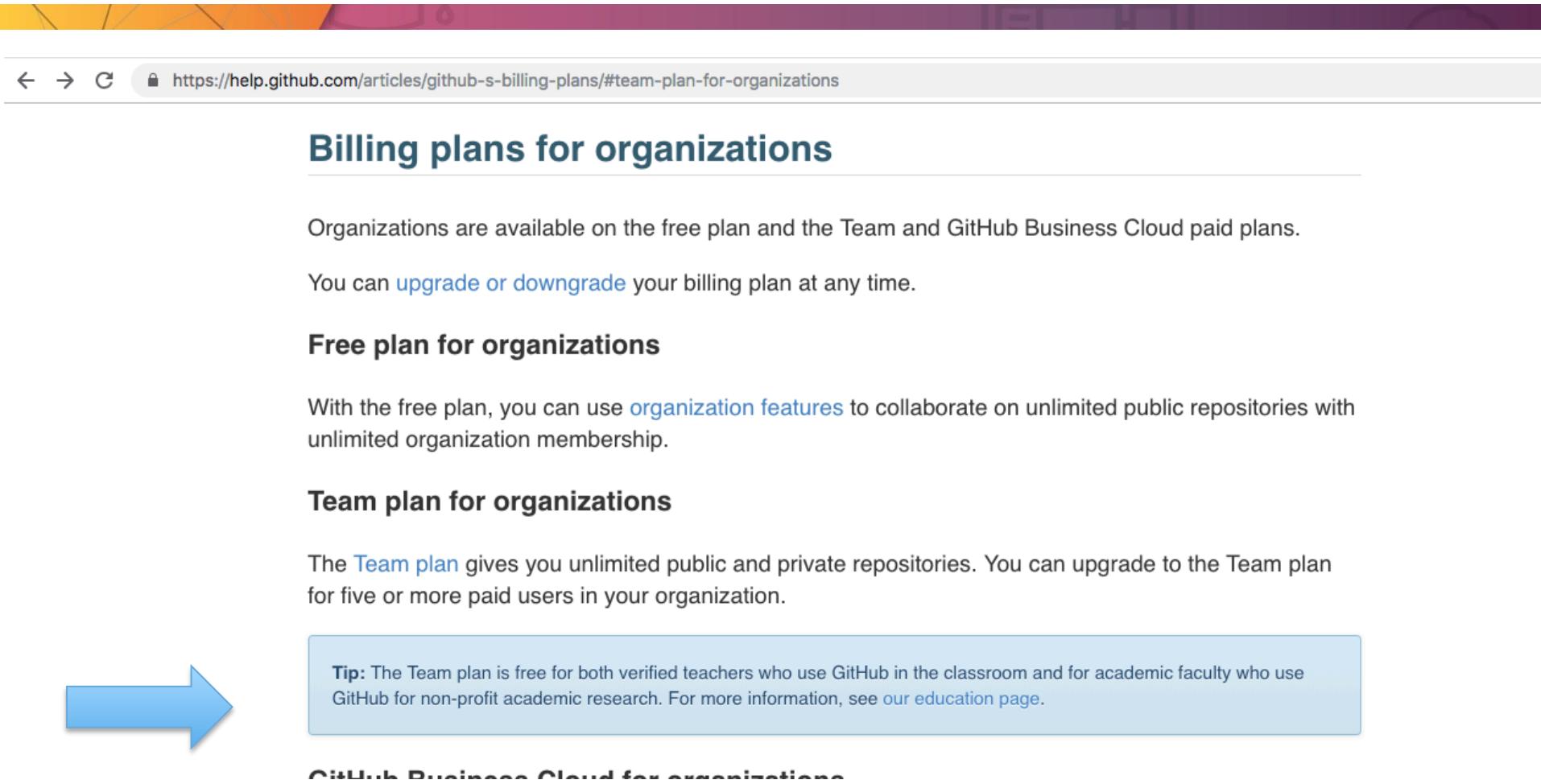
- » Have a [personal user account](#)
- » Have a verifiable school-issued email address or share documents that prove your school affiliation

If you're applying for a free Team plan for an organization you must also have an [organization account](#), which you can set up on the free plan.

If your discount request is approved, your organization will be automatically upgraded to the Team plan.

After your discount expires, you may reapply for a discount if you're still eligible.

<https://help.github.com/articles/github-s-billing-plans/#team-plan-for-organizations>



The screenshot shows a web browser displaying the GitHub help article about billing plans. The URL in the address bar is <https://help.github.com/articles/github-s-billing-plans/#team-plan-for-organizations>. The main heading is "Billing plans for organizations". Below it, a sub-section titled "Free plan for organizations" is described as allowing collaboration on unlimited public repositories with unlimited organization membership. Another section, "Team plan for organizations", is described as giving unlimited public and private repositories for up to five paid users. A blue callout box contains a tip about the Team plan being free for verified teachers and academic faculty. A large blue arrow points from the left towards the "GitHub Business Cloud for organizations" link at the bottom.

← → C <https://help.github.com/articles/github-s-billing-plans/#team-plan-for-organizations>

Billing plans for organizations

Organizations are available on the free plan and the Team and GitHub Business Cloud paid plans.

You can [upgrade or downgrade](#) your billing plan at any time.

Free plan for organizations

With the free plan, you can use [organization features](#) to collaborate on unlimited public repositories with unlimited organization membership.

Team plan for organizations

The [Team plan](#) gives you unlimited public and private repositories. You can upgrade to the Team plan for five or more paid users in your organization.

Tip: The Team plan is free for both verified teachers who use GitHub in the classroom and for academic faculty who use GitHub for non-profit academic research. For more information, see [our education page](#).

[GitHub Business Cloud for organizations](#)

Solicitamos repositorios privados a GitHub

https://education.github.com/discount_requests/new

A chalkboard with a green background. On the left, there's a drawing of laboratory glassware: a round-bottom flask on a stand, a condenser tube, and an Erlenmeyer flask. In the center, the text "TEACH AND LEARN BETTER, TOGETHER" is written in white chalk. Below it, a green button with white text says "Request a discount". An arrow points from the word "Click!" to this button. On the right side of the chalkboard, there's a cartoon illustration of a scientist wearing a lab coat, safety goggles, and a respirator mask. The scientist is holding a test tube and pouring liquid from one flask into another. At the bottom of the chalkboard, there's some faint text: "STUDENT DEVELOPER PACK" and "EDUCATION.GITHUB.COM".

Request a discount

Discounted and free plans are available for educational use

https://education.github.com/discount_requests/new

Step 1

Tell us what you need

Step 2

Tell us about you

You have submitted 8 requests:

- Jan 30, 2017 for @ULL-ESIT-DSI-1617 – Approved
- Jan 30, 2017 for @ULL-ESIT-PL-1617 – Approved
- Dec 8, 2016 for @ULL-ESIT-GRADOII-TFG – Approved
- Nov 29, 2016 for @ULL-PFPDI-GITBOOK-1617 – Approved
- Sep 6, 2016 for @ULL-ESIT-SYTW-1617 – Approved
- Feb 5, 2016 for @ULL-ESIT-GRADOII-DSI – Approved
- Feb 5, 2016 for @ULL-ESIT-GRADOII-PL – Approved

Solicita repositorios privados

<p>Which best describes you?</p> <p><input type="radio"/> Student <input checked="" type="radio"/> Teacher</p> <p><input type="radio"/> Researcher <input type="radio"/> Administrator/staff</p> <p><input type="radio"/> Other</p> <p>What are you looking to get a discount for? ?</p> <p><input type="radio"/> Individual account <input checked="" type="radio"/> Organization account</p>	<p style="margin: 0;">Step 1</p> <p style="margin: 0;">Tell us what you need</p> <p style="margin: 0;">Step 2</p> <p style="margin: 0;">What's the organization?</p> <p style="margin: 0;">Step 3</p> <p style="margin: 0;">What's it for?</p> <p style="margin: 0;">Step 4</p> <p style="margin: 0;">Tell us about you</p>
<p>Which GitHub organization is this for?</p> <p style="margin: 0;"><input type="text" value="ULL-ESIT-GRADOII-DSI"/></p> <p>If the organization doesn't exist yet, go create it, then refresh this page. Feel free to create it on the Open Source plan, and you will be automatically upgraded if your request is approved.</p> <p>Which best describes what this organization will be used for?</p> <p><input checked="" type="radio"/> Classroom <input type="radio"/> Student group</p> <p><input type="radio"/> Research group <input type="radio"/> Other</p>	
<p>Next</p>	

Solicita repositorios privados

Step 1 Tell us what you need Step 2 What's the organization? Step 3 What's it for? Step 4 Tell us about you

Tell us more about your class.

Class name
ULL-ESIT-GRADOII-DSI

Class URL
<https://campusvirtual.ull.es/1617>

The link to the entry in the course: [GitHub Education <edu-noreply@github.com>](#) para crguezl

How many private reposito
500

Next

Mail de respuesta →

Name
Casiano Rodriguez-Leon

Verify academic status
Select your school-issued email address:
orguezl@ull.edu.es

If your school-issued email address isn't listed, please [add and verify it](#), then refresh this page.

Upload Validation
Drop file here or click to upload.

Please upload an image of your school ID or other proof of affiliation. Please make sure that at least one date that demonstrates your current academic status is clearly visible.

hool name

w do you plan to use GitHub in your class?

Tardan poco en contestar afirmativamente concediendo un número ilimitado de repos privados

GitHub Education Community

Es seguro | <https://education.github.community>

GitHub Education Community

Welcome to the GitHub Education Community, a supportive environment for educators to collaborate with each other, and with GitHubbers directly. We invite you to tell your story, ask questions, and share resources about technology education.

Get to know your fellow community members and [introduce yourself](#).

[all categories](#) ▾ [Categories](#) Unread (2) Latest New Top [+ New Topic](#)

Category	Topics	Latest
Teachers Discussions about teaching technology. Topics need not be GitHub-specific.	3 / month 1 unread	I need your help to write an email that may bring my school to GitHub 3 1d ● GitHub Classroom
GitHub Classroom This category is for discussion about GitHub Classroom + support from other educators using Classroom in their courses.	3 / month 1 unread	Teachers! Introduce yourself here 466 2d ● Teachers
Students Learning to code? Start here!	2 / month	GitHub Classroom: plagiarism & cheating detection 6 3d ● GitHub Classroom
Miscellaneous Topics that don't need a category, or don't fit into any other existing category	1 / month	Students! Introduce yourself here 56 3d ● Students
		Build your own classroom HQ 2 7d ● Teachers

*Hay una comunidad de usuarios que puede ayudarte
Con los problemas que surjan*

Ghedsh: <https://github.com/ULL-ESIT-GRADOII-TFG/ghedsh>

```
~ ghedsh
Configuration files created in /Users/carlos/.ghedsh
Username: alu0100816167
Password:
Successful login as alu0100816167
Starting ghedsh CLI

MMM. .MM
MMMMMMMMMMMMMMMMMM
MMMMMMMMMMMMMMMMMM
MMMMMMMMMMMMMMMMMM | GitHub Education Shell
MMMMMMMMMMMMMMMMMM |_
MMMM:::- -:-----:--:MMMM | /
MM:~ 00:~:~ 00~:~MM
.. MMMMM:..00::+:::00::MMMM .. .MM:::::_._:::MM.
. MM;:::::;MMMM
-MM      MMMMM
^ M+      MMMMM
  MMMMM MM MM MM
    MM MM MM MM
    MM MM MM MM
.~~MM~MM~MM~MM~~.
~~~MM:~MM~~MM~:MM~~~
~~~~==~~==~~==~~==
~~~~==~~==~~==~~~
```

```
alu0100816167> ULL-ESIT-GRADOII-TFG> cd repo ghedsh
alu0100816167> ULL-ESIT-GRADOII-TFG> ghedsh> new_issue
```

```
alu0100816167> ULL-ESIT-GRADOII-TFG> people
Fetching ULL-ESIT-GRADOII-TFG people ( ● ) ... done!
+-----+
| Github ID | Role |
+-----+
| alu0100505023 | member
| alu0100769579 | member
| alu0100816167 | member
| berkanrhdz | member
| Cicko | member
| crguezl | member
| EleDiaz | member
| jjlabrador | member
| Losnen | member
| sokartema | member
```

```
alu0100816167> ULL-ESIT-GRADOII-TFG> invite_member_from_file /template/add_members.json
```

Ghedsh: <https://github.com/ULL-ESIT-GRADOII-TFG/ghedsh>

```
alu0100816167> ULL-ESIT-GRADOII-TFG> repos /^tfg/i
Fetching ULL-ESIT-GRADOII-TFG repositories ( ● ) ... done!
tfgrberkan
tfgrberkan-software
TFG-Eleazar-18
tfgrideas
TFG-Memoria-Eleazar-17
tfgrmemorias
TFG-SyTW
TFG-ULL-CloudTDF-alberto-ruiz
alu0100816167> ULL-ESIT-GRADOII-TFG> teams
Fetching ULL-ESIT-GRADOII-TFG teams ( ● ) ... done!
2018
arreglar-memoria-gitbook
berkan
carlos-armas
chuchu
clemente
jazer
jjlabrador
TFG Cicko
TFG de Eleazar
repositories listed.
```

Ghedsh: clone

```
alu0100816167> clone /aeda/i /Desktop/clone-example
Cloning into 'AEDA_2016_Prct1'...
remote: Counting objects: 37, done.
remote: Total 37 (delta 0), reused 0 (delta 0), pack-reused 37
Unpacking objects: 100% (37/37), done.

Cloning into 'AEDA_2016_Prct2'...
remote: Counting objects: 27, done.
remote: Total 27 (delta 0), reused 0 (delta 0), pack-reused 27
Unpacking objects: 100% (27/27), done.

Cloning into 'AEDA_2016_Prct3'...
remote: Counting objects: 25, done.
remote: Total 25 (delta 0), reused 0 (delta 0), pack-reused 25
Unpacking objects: 100% (25/25), done.

Cloned into /Users/carlos/Desktop/clone-example
```

Ghedsh: new_eval

<https://ull-esit-gradoii-tfg.github.io/carlos-armas-tfg/memoria/cap3.html>

```
alu0100816167> ULL-ESIT-GRADOII-TFG> new_eval example-eval-repo /assignment-*/*  
Initialized empty Git repository in /Users/carlos/example-eval-repo/.git/  
Cloning into '/Users/carlos/example-eval-repo/assignment-example-1'...  
remote: Counting objects: 3, done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
Receiving objects: 100% (3/3), done.  
Cloning into '/Users/carlos/example-eval-repo/assignment-example-2'...  
remote: Counting objects: 3, done.  
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0  
Receiving objects: 100% (3/3), done.  
Cloning into '/Users/carlos/example-eval-repo/assignment-example-3'...
```



alu0100816167 First commit

assignment-example-1 @ 912c98b

assignment-example-2 @ 18947e7

assignment-example-3 @ 84b7adc

.gitmodules

Ghedsh: foreach

<https://ull-esit-gradoii-tfg.github.io/carlos-armas-tfg/memoria/cap3.html>

```
alu0100816167> ULL-ESIT-GRADOII-TFG> example-eval-repo> foreach npm install
Entering 'assignment-example-1'
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN hello_browser_npm@1.0.0 No repository field.

audited 3 packages in 1.59s
found 0 vulnerabilities

Entering 'assignment-example-2'
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN hello_browser_npm@1.0.0 No description
npm WARN hello_browser_npm@1.0.0 No repository field.

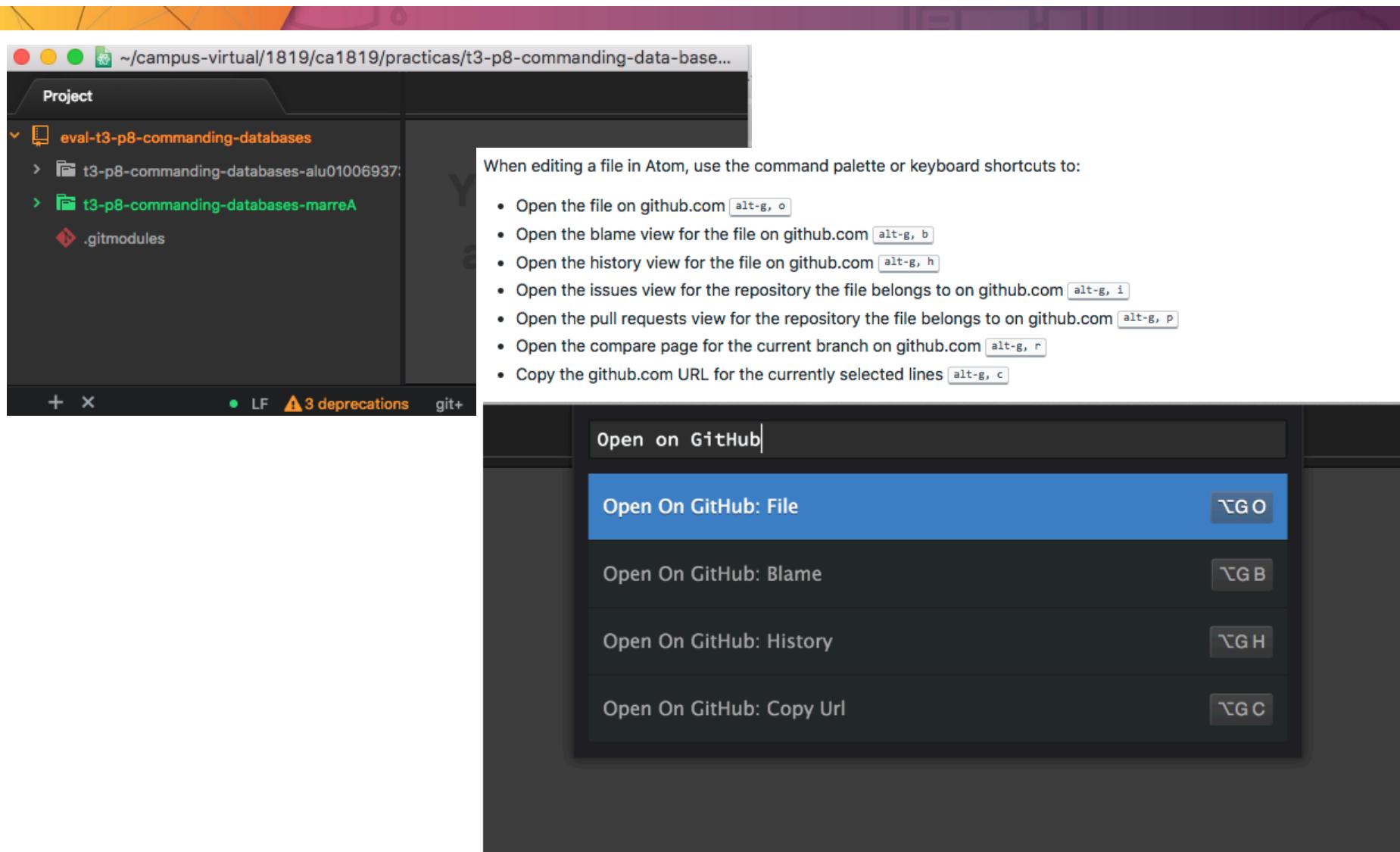
audited 3 packages in 1.777s
found 0 vulnerabilities

Entering 'assignment-example-3'
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN hello_browser_npm@1.0.0 No description
npm WARN hello_browser_npm@1.0.0 No repository field.

audited 3 packages in 1.381s
found 0 vulnerabilities
```

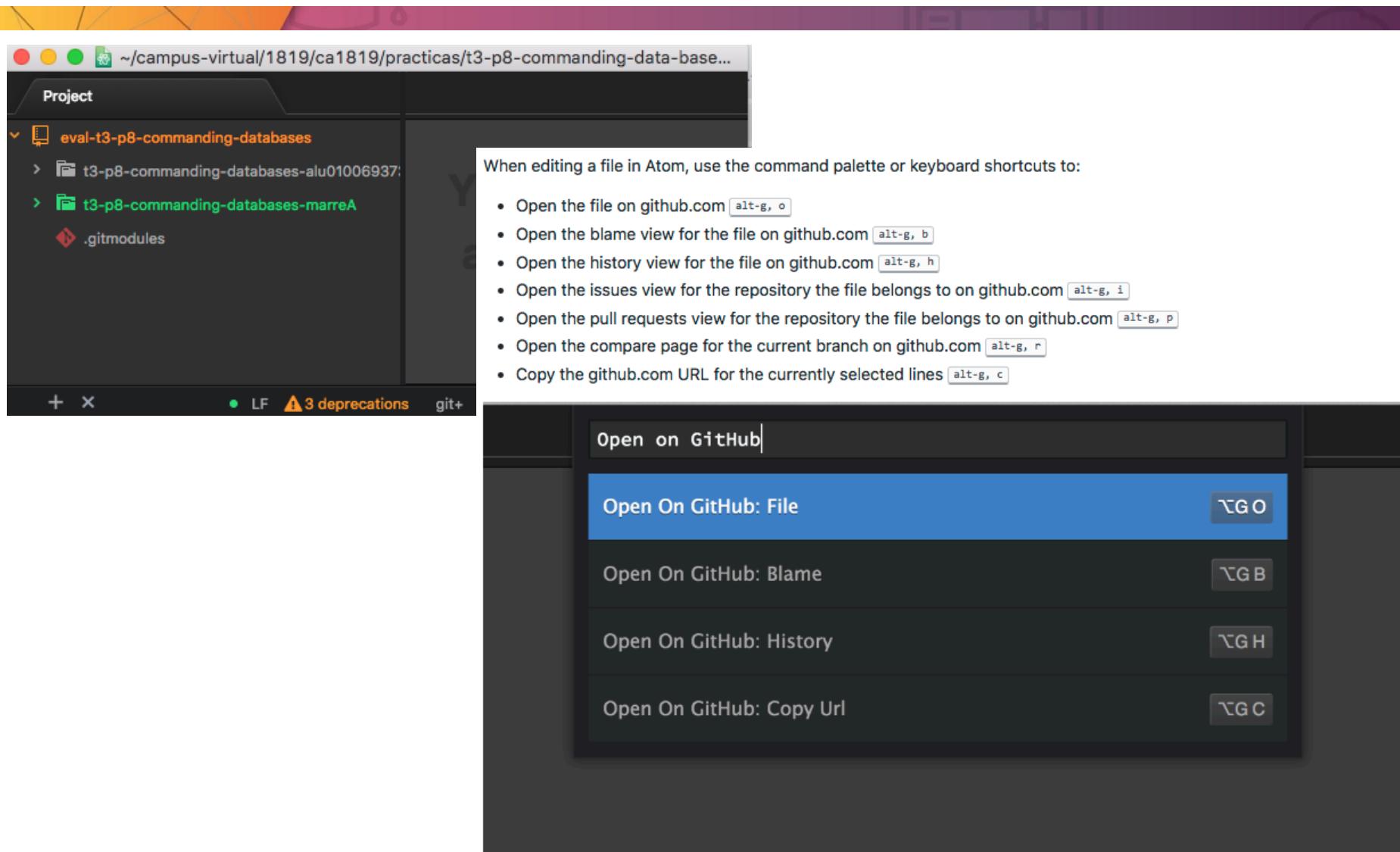
Atom plugin: open-on-github

<https://ull-esit-gradoii-tfg.github.io/carlos-armas-tfg/memoria/cap3.html>



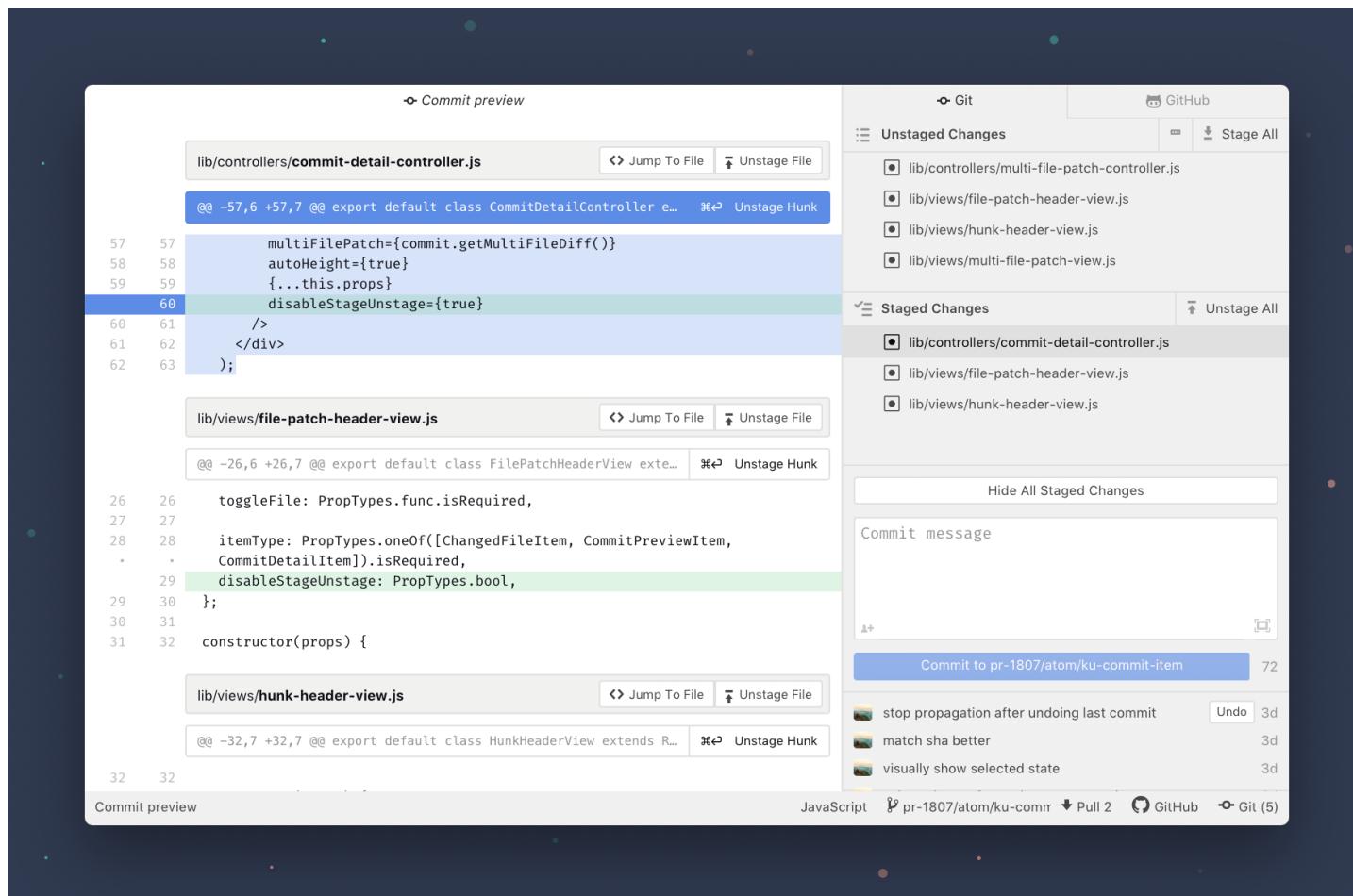
Atom plugin: open-on-github

<https://github.com/atom/open-on-github>



Atom plugin: github

<https://github.com/atom/github>



Desktop app: <https://github.com/ULL-ESIT-GRADOII-TFG/tfg-berkan-software>

The image displays the AutoCheck desktop application interface, which integrates with Travis CI for continuous integration of student projects.

Orgs: Shows a list of organizations (Orgs) with their names and links. Organizations listed include etsii2, Lenguajes-Paradigmas-Programacion-ULL, ULL-ETSI-GRADO-SYTW-1314, ULL-ESIT-GRADOII-PL, etsiull, SYTW, and ULL-ESIT-GRADOII-DSI.

Repositories: Shows a list of repositories (Repos) with their organization, name, build status, and link. Repositories listed include egg-2, egg-2-alu0100973914, egg-2-alu0100845808, egg-2-PanchoMen, egg-2-PanchoMen, egg-2-12534, egg-2-12534, egg-2-angelibgreta, and egg-2-angelibgreta. All builds are marked as passing.

Assignments: Shows a list of assignments (Assignments) with their organization, name, and link. Assignments listed include egg-4 and egg-2.

Travis CI Integration: A screenshot of the Travis CI interface for the repository [ULL-ESIT-PL-1718 / egg-2-alu0100973914](https://travis-ci.com/ULL-ESIT-PL-1718/egg-2-alu0100973914). The build status is "passed". The build log shows the following output:

```
1 Worker information
2 mode of '/usr/local/clang-5.0.0/bin' changed from 0777 (rwxrwxrwx) to 0775 (rwxrwxr-x)
3 Build system information
4 049 removed '/etc/apt/sources.list.d/basho_riak.list'
5 Network connectivity confirmed
```

Desktop app: <https://github.com/education/classroom-assistant>

The screenshot illustrates the workflow of the GitHub Classroom Assistant desktop application:

- Step 1: Enter Assignment URL**
 - A user enters the URL <http://classroom.github.com/classrooms/> into the "Enter Assignment URL" field of the "Select Assignment" dialog.
 - An arrow points from the URL bar of a browser window above to the URL input field.
- Step 2: Choose Repositories**
 - The user clicks the "Next: Choose Repositories" button.
 - An arrow points from the "Next: Choose Repositories" button in the first dialog to the "Next: Choose Repositories" button in the second dialog.
- Step 3: Assignment Selection**
 - The user selects two assignments: "marreA" and "Iván García".
 - An arrow points from the list of selected users in the middle dialog to the "2/2 Assignments Selected" confirmation in the bottom dialog.
- Step 4: Download Progress**
 - The user specifies an archive destination of "/tmp".
 - An arrow points from the "Archive Destination" field in the middle dialog to the "Download Progress" bar in the bottom dialog.
- Step 5: Download Completion**
 - The application shows download progress for two users: "marreA" and "Iván García", both at 100% completion.
 - An arrow points from the "Download Progress" bar in the bottom dialog to the "Finished Cloning" status in the bottom right corner.
- Step 6: Terminal Output**
 - A terminal window at the bottom shows the command `ls -ltr ~/tmp/t3-p9-developing-re` and its output, confirming the cloned repositories.

TFG 18/19. Atom Plugin: GitHub Classroom 1



Screenshot of the Atom code editor interface showing a GitHub Classroom integration.

The left sidebar shows a project structure with several repositories:

- eval-t3-p8-commanding-databases**: Contains files like `index.js`, `README.md`, and `.gitignore`.
- t3-p8-commanding-databases-alu0100693737**: Contains files like `esclu`, `index.js`, and `.gitignore`.
- t3-p8-commanding-databases-marrero**: Contains files like `esclu`, `index.js`, and `.gitignore`.
- t1-p7-transforming-data-and-testing-cont**: Contains files like `.gitignore`, `.gitmodules`, `gulpfile.js`, and `package-lock.json`.
- results**
- t1-p7-transforming-data-and-testing-cont**: Contains files like `.gitignore`, `.gitmodules`, `gulpfile.js`, and `package-lock.json`.
- packege.json**
- README.md**
- .gitmodules**

The main editor area displays the contents of `index.js`:

```
1 # Commanding databases
2
3 ## Autor
4
5 - [Iván García] (https://alu0100693737.github.io/) -- @alu0100693737
6
7
8 ## Tecnologías empleadas
9
10 - [Node.js] (https://nodejs.org/es/)
11
12 - [Gulp.js] (https://gulpjs.com/)
13
14 - [Mocha.js] (https://mochajs.org/)
15
16 - [Chai.js] (https://www.chaijs.com/)
17
18 - [Asciidoctor] (https://asciidoctor.org/)
19
20
21
22
23 $ ./esclu
24
25 - Usage: esclu [options] <command> [...]
26
```

The right sidebar shows a list of GitHub Classrooms:

- DSI** **ULL-DSI-1516** @ULL-ESIT-GRADOII-DSI
- ULL-ESIT-GRADOII-PL-15-16**
- ULL-ETSII-GRADO-SYTW** @ULL-ESIT-II-GRADO-SYTW-1314
- SYTW** **ULL-ESIT-SYTW-1617** @ULL-ESIT-SYTW-1617
- DSI** **ULL-ESIT-DSI-1617** @ULL-ESIT-DSI-1617
- PL** **ULL-ESIT-PL-1617** @ULL-ESIT-PL-1617
- LPP** **ULL-ESIT-LPP-1617** @ULL-ESIT-LPP-1617

TFG Atom Plugin: GitHub Classroom 2

The screenshot shows the Atom code editor interface with several tabs open:

- Project
- eval-t3-p8-commanding-databases (selected)
- t3-p8-commanding-databases-alu0100693737
- escu
- index.js
- README.md
- t3-p8-commanding-databases-marreA
- results
- t1-p7-transforming-data-and-testing-cont
- .gitignore
- .gitmodules
- gulpfile.js
- package-lock.json
- package.json
- README.md
- .gitmodules

The index.js file content is as follows:

```
1 # Commanding databases
2
3 ## Autor
4
5 - [Iván García] (https://alu0100693737.github.io/) -- @alu0100693737
6
7
8 ## Tecnologías empleadas
9
10 - [Node.js] (https://nodejs.org/es/)
11
12 - [Gulp.js] (https://gulpjs.com/)
13
14 - [Mocha.js] (https://mochajs.org/)
15
16 - [Chai.js] (https://www.chaijs.com/)
17
18 - [Asciidoctor] (https://asciidoctor.org/)
19
20
21
22
23 $ ./esclu
24
25 - Usage: esclu [options] <command> [...]
```

To the right of the Atom window, there is a sidebar titled "ULL-MII-CA-1819" which lists GitHub Classroom assignments:

- 01-high-order-function (Individual assignment) <https://classroom.> [Copy invitation link](#)
- 05 NJSTRW CRM (Individual assignment) <https://classroom.> [Copy invitation link](#)
- Networking with Sockets (Group assignment for Teams formed on October 2nd, 2018) <https://classroom.> [Copy invitation link](#)
- OOP: The Secret Life of Objects. Lying Out a Table (Group assignment for Teams formed on October 2nd, 2018) <https://classroom.> [Copy invitation link](#)
- Wrangling the File System (Node JS is The Right Way) (Group assignment for Teams formed on October 2nd, 2018) <https://classroom.> [Copy invitation link](#)
- t1-p6-modulos-npm (Individual assignment) <https://classroom.> [Copy invitation link](#)
- t1-p7-transforming-data-and-testing-continuously (Individual assignment) <https://classroom.> [Copy invitation link](#)

TFG Atom Plugin: GitHub Classroom 3

The screenshot shows the Atom code editor integrated with GitHub Classroom. On the left, the Atom interface displays a project structure with several repositories, including 'eval-t3-p8-commanding-databases' and 't3-p8-commanding-databases-marreA'. The 'index.js' file from the second repository is open, showing code related to 'esclu' and various testing frameworks like Node.js, Gulp.js, Mocha.js, Chai.js, and Asciidoctor.

On the right, a separate window for 'ULL-MII-CA-1819' shows an assignment titled 't1-p7-transforming-data-and-testing-continuously'. It lists two students: 'marreA' (27 commits) and 'alu0100693737' (5 commits), each with a 'View repository' button.

Key elements visible include:

- Atom Project View:** Shows the project structure and the content of the 'index.js' file.
- GitHub Classroom Assignment:** Titled 't1-p7-transforming-data-and-testing-continuously', it includes student profiles and commit counts.
- Buttons:** 'Download Repositories', 'Assignment settings', 'Give this to your students' (with a link and 'Copy invitation link' button), and 'View repository' buttons for each student.

Conclusiones, Necesidades, Mejoras

- Necesidad de Integración de GitHub, Classroom, etc. con las plataformas educativas existentes como Moodle (Véase [ghedsh](#))
- El desarrollo de herramientas que permitan un mejor aprovechamiento e integración de servicios como los que provee GitHub en el contexto de la enseñanza (por ejemplo uso de los servicios de integración continua como Travis para los procesos de evaluación del alumno)
- Conveniencia de difundir la formación en las metodologías, técnicas y herramientas asociadas al control de versiones y a los servicios de gestión de repositorios entre la comunidad educativa
- Fomentar el desarrollo de buenas prácticas para la mejor explotación de este tipo de herramientas (mejores flujos de trabajo)

Referencias/Enlaces

1. [CURSO OCW ULL: INTEGRACIÓN DE LAS HERRAMIENTAS "GITHUB EDUCATION" EN EL AULA](#)
2. [Vídeo preparando una tutoría con un alumno usando git, github \(YouTube\)](#)
3. [GitHub ClassRoom: Instrucciones](#)
4. [GitHub Classroom — Getting Started \(Video\)](#)
5. [GitHub Classroom — How to set up individual assignments \(Video\)](#)
6. [GitHub Classroom — How to set up group assignments \(Video\)](#)
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8. [The Emergence of GitHub as a Collaborative Platform for Education \(Motivation and Dynamics of the Open Classroom CSCW 2015, March 14-18, 2015, Vancouver, BC, Canada\)](#)
9. [GitHub in the classroom: not just for group projects \(Journal of Computing Sciences in Colleges. Volume 28 Issue 4, April 2013\)](#)
10. [GitHub como herramienta docente \(Actas de las XXI Jornadas de la Enseñanza Universitaria de la Informática. 2015\)](#)
11. [A GitHub Garage for a Digital Humanities Course \(New Directions for Computing Education: Embedding Computing Across Disciplines, 2017, Springer\)](#)
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¡Muchas gracias!

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