

Instruções de Uso do GitHub Classroom

Aquecimento (Pré-requisitos)

1. Criar conta no GitHub (<http://github.com/>), caso não tenha.

Isso é necessário por que todos os repositórios serão mantidos na plataforma GitHub

2. Solicitar a inclusão na organização de TI do curso de Engenharia de Software no GitHub (entre em contato com Soraia e Laerte, ambos conseguem adicionar).

Isso é necessário por que todo os repositórios são mantidos dentro da organização de TI do curso e não nas contas pessoais dos alunos e professores.

3. Associar sua conta no GitHub ao “GitHub Classroom” (<https://classroom.github.com/classrooms>)

É por meio da interface web desse sistema que você fará a criação dos “Classrooms” e fará a criação de assignments para os alunos. Ele é uma plataforma que roda acima do GitHub e tudo que vocês faz por meio dela, já atualiza automaticamente no GitHub (do aluno, do professor e da organização de TI do curso)

4. Baixar o “GitHub Classroom Assistant” (<https://classroom.github.com/assistant>).

“GitHub Classroom Assistant” é um aplicativo que facilita muito a etapa de correção de atividades. Após os alunos realizarem a entrega, nesse aplicativo você consegue fornecer o link do assignment e com apenas um click baixar os repositórios de todos os alunos para o seu computador. Ou seja, em vez de baixar o código de aluno por aluno, você baixa de todos de uma vez. Com esses repositórios baixados, você pode seguir com a correção.

Tarefas Principais

1. Criação dos Assignments

Isso deve ser feito pelo professor da disciplina. Uma dúvida que pode surgir é se: a) faz-se um assignment único que é atualizado ao longo do semestre, ou b) faz-se um assignment por entrega. Pela natureza do trabalho de TIS, o ideal é “a”.

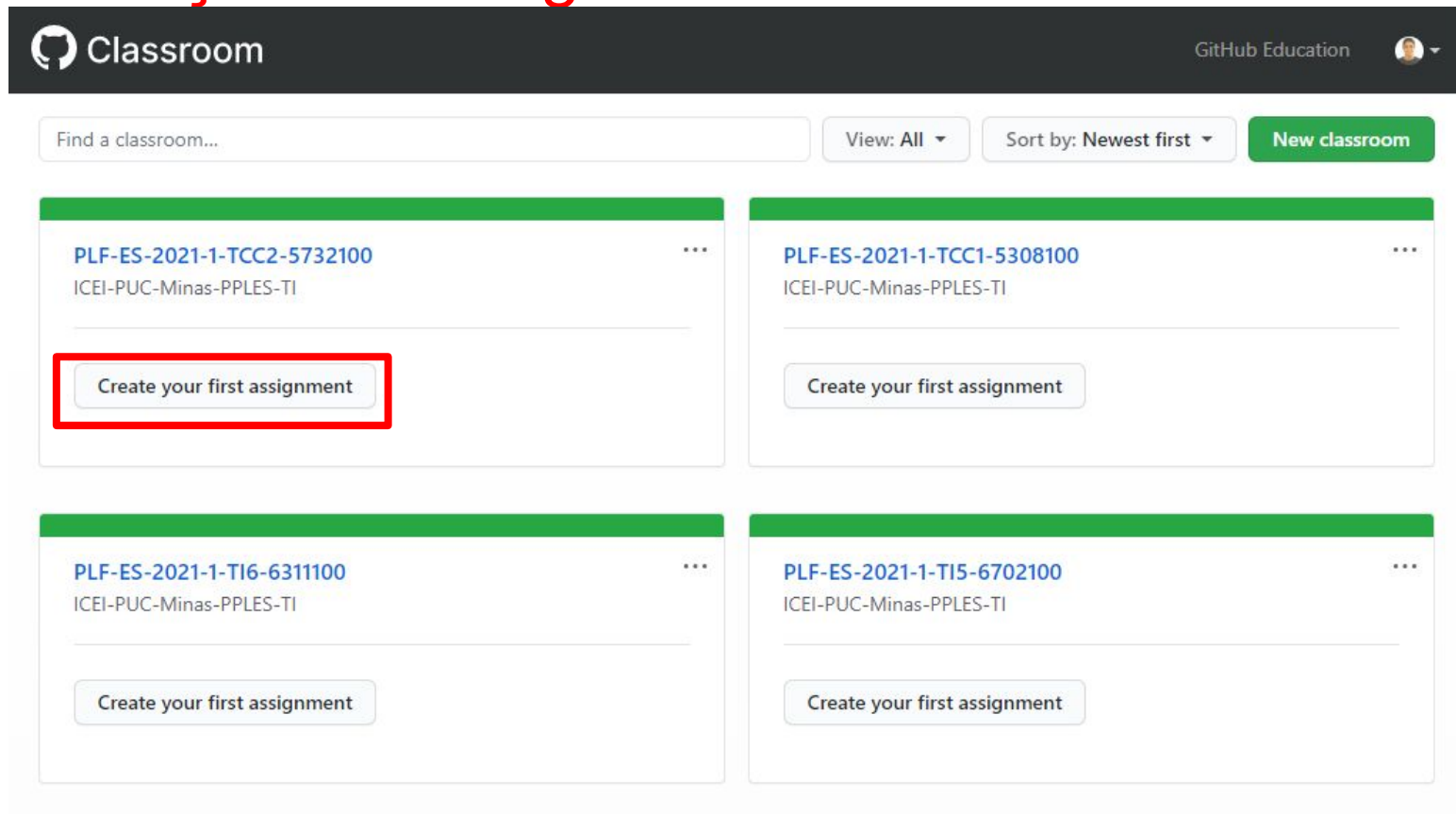
2. Aceitação do Assignment

Professor: Geração e envio do link do assignment e envio aos alunos

Aluno: vinculação por parte dos alunos dos GitHub pessoal (apenas no primeiro assignment)

Aluno: [trabalho em equipe] criação de equipes ou vinculação a equipes existentes

1 - Criação de Assignments



The screenshot displays the GitHub Classroom web interface. At the top, there is a dark header with the GitHub logo and the word "Classroom" on the left, and "GitHub Education" and a user profile icon on the right. Below the header, there is a search bar labeled "Find a classroom...", a "View: All" dropdown, a "Sort by: Newest first" dropdown, and a green "New classroom" button. The main content area shows four classroom cards arranged in a 2x2 grid. Each card has a green header bar, a blue title, a subtitle, and a "Create your first assignment" button. The first card's button is highlighted with a red rectangle.

Classroom 1: PLF-ES-2021-1-TCC2-5732100
ICEI-PUC-Minas-PPLES-TI
Create your first assignment

Classroom 2: PLF-ES-2021-1-TCC1-5308100
ICEI-PUC-Minas-PPLES-TI
Create your first assignment

Classroom 3: PLF-ES-2021-1-TI6-6311100
ICEI-PUC-Minas-PPLES-TI
Create your first assignment

Classroom 4: PLF-ES-2021-1-TI5-6702100
ICEI-PUC-Minas-PPLES-TI
Create your first assignment

1 - a) Configurar o Assignment

Lembre-se que, de acordo com o nosso padrão, o nome do assignment é o nome do classroom

classroom.github.com/classrooms/76447459-plf-es-2021-1-tcc2-5732100/new_assignments/continue

Classroom

GitHub Education

Classrooms / PLF-ES-2021-1-TCC2-5732100 / New assignment

- Assignment basics
- Starter code and environment
- Grading and feedback

Let's set up the basics for your assignment.

Assignment title

PLF-ES-2021-1-TCC2-5732100

Student assignment repositories will have the prefix: plf-es-2021-1-tcc2-5732100

Deadline (optional)

Individual or group assignment

Group assignment

Name your set of teams

Teams formed on December 21st, 2020

1 -

b) escolher um repositório *template*

Você pode usar o template do curso ou algum template que tenha adaptado para o seu TI. A estrutura básica deve ser mantida. Atenção para escolher o template correto, pois isso gera muitos efeitos.

classroom.github.com/classrooms/76447459-plf-es-2021-1-tcc2-5732100/new_assignments/continue

Classroom

GitHub Education

classrooms / PLF-ES-2021-1-TCC2-5732100 / New assignment

- ✓ Assignment basics
- Starter code and environment
- Grading and feedback

Add your starter code and choose an optional online IDE.

Add a template repository to give students starter code

Your assignment will be created with empty student repositories if you don't add starter code. Changes to starter code after students have accepted the assignment will not retroactively change existing student repositories.

Note: All starter code must use a [template repository](#). Your starter code repository must be either in your organization or a public one. [Learn about transferring your repositories.](#)

ICEI-PUC-Minas-PPLES-TI/TI-ES-GenericTemplate ▾

Allow students to use an online IDE

You can automatically set up student repositories with an online IDE where students can write code, run programs, and collaborate. [Learn more.](#)

Select an online IDE ▾

1 - c) Copiar o link e enviar aos alunos

← → ↻ classmate classroom.github.com/classrooms/64739799-es-tis4-20201/assignments/es-tis4-20201-entregas

Classroom GitHub Education

Classrooms / ES-TIS4-20201 / ES-TIS4-20201-Entregas

"ES-TIS4-20201-Entregas" has been created!

ES-TIS4-20201-Entregas

Individual assignment Due in 4 days (Aug 14, 2020, 15:00)

☒ Enable assignment invitation URL <https://classroom.github.com/a/UWOPX> Delete Edit assignment

Assignment is ready
Share the invitation URL with students and visit it to view how students accept an assignment.
Got it!

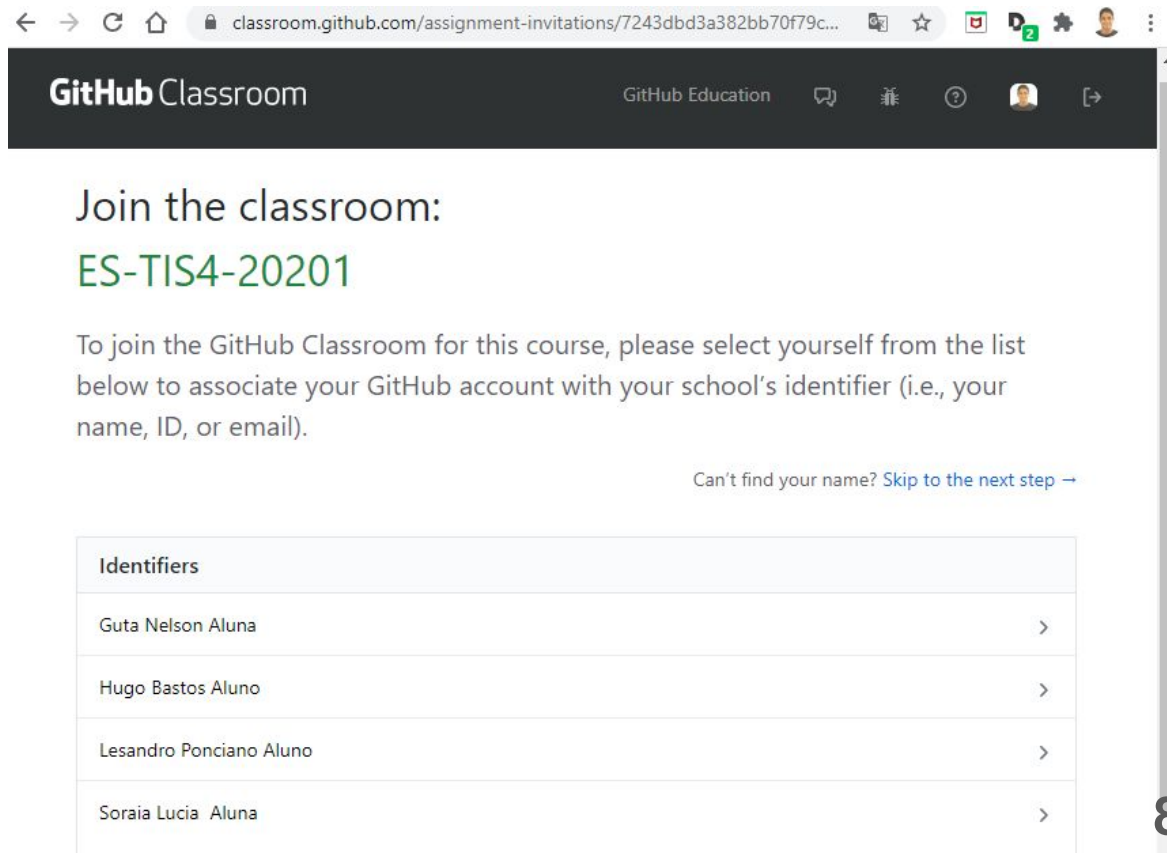
Download Repositories

Students have not accepted "ES-TIS4-20201-Entregas" yet
Share the invitation link with your students so they can accept the assignment.
Copy invitation link View my classroom

2 - Aceitação do Assignment em Grupo

Ao abrir o link

1. Se o aluno não estiver logado na conta GitHub dele será necessário logar
2. Aparecerá a lista com os nomes dos alunos da turma
3. O aluno deverá escolher o seu nome e se vincular



The screenshot shows a web browser window with the URL `classroom.github.com/assignment-invitations/7243dbd3a382bb70f79c...`. The page header is "GitHub Classroom" with "GitHub Education" and navigation icons. The main content area says "Join the classroom:" followed by the identifier `ES-TIS4-20201` in green. Below this, it instructs the user to select themselves from a list to associate their GitHub account with their school's identifier. A link "Can't find your name? Skip to the next step →" is provided. A table titled "Identifiers" lists four names: Guta Nelson Aluna, Hugo Bastos Aluno, Lesandro Ponciano Aluno, and Soraia Lucia Aluna, each with a right-pointing chevron icon.

Join the classroom:

`ES-TIS4-20201`

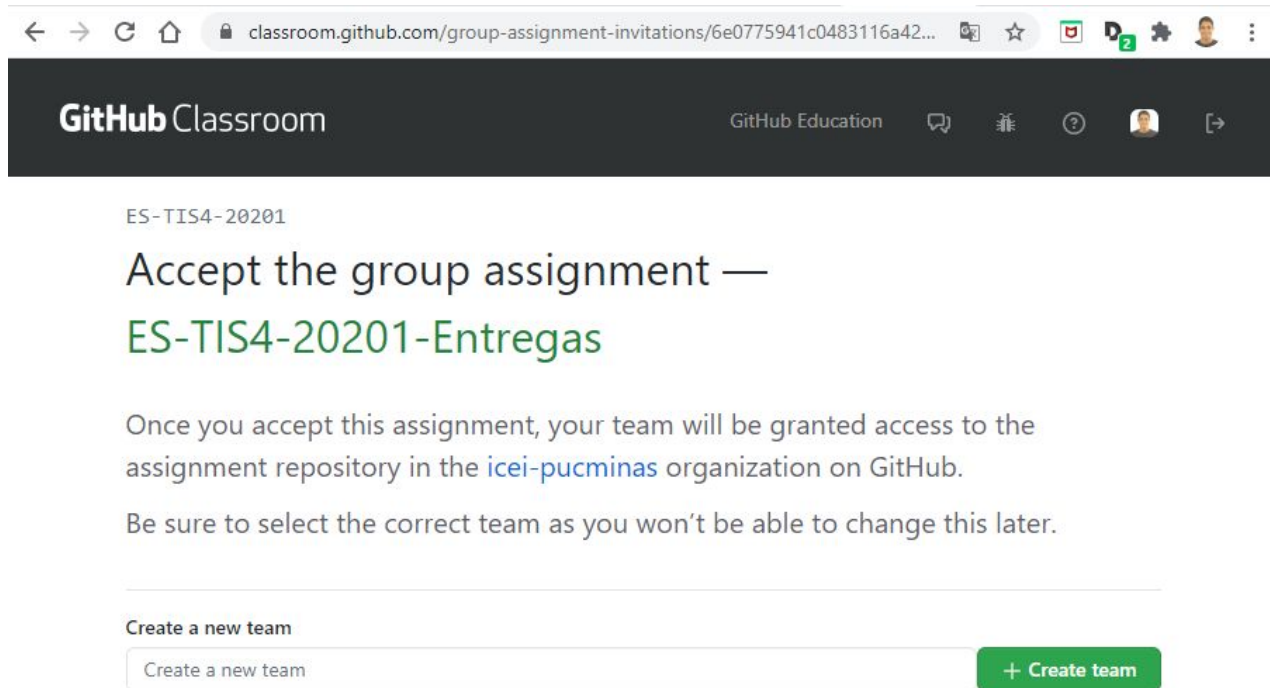
To join the GitHub Classroom for this course, please select yourself from the list below to associate your GitHub account with your school's identifier (i.e., your name, ID, or email).

[Can't find your name? Skip to the next step →](#)

Identifiers
Guta Nelson Aluna >
Hugo Bastos Aluno >
Lesandro Ponciano Aluno >
Soraia Lucia Aluna >

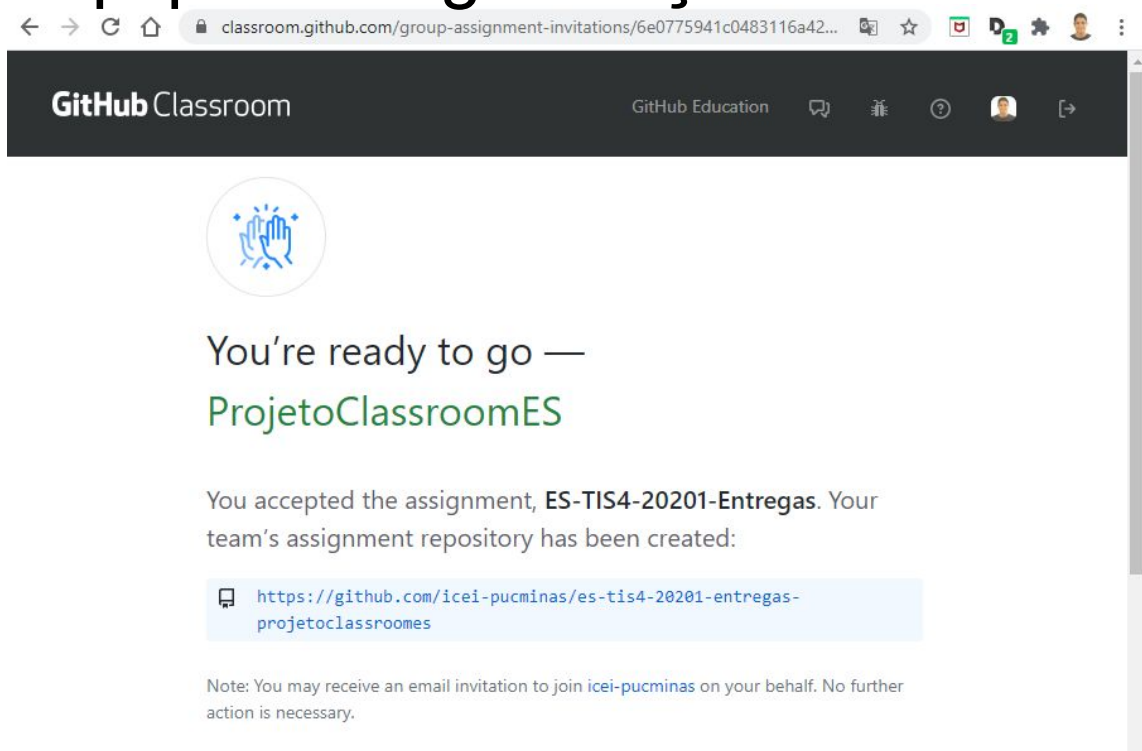
2 - a) Criação da equipe (nome do projeto de TI)

É importante que
nome seja curto
(até 2 palavras)



The screenshot shows the GitHub Classroom web interface. At the top, the browser address bar displays the URL: `classroom.github.com/group-assignment-invitations/6e0775941c0483116a42...`. The page header includes the "GitHub Classroom" logo, a "GitHub Education" link, and several utility icons. The main content area displays the assignment ID "ES-TIS4-20201" and the title "Accept the group assignment — ES-TIS4-20201-Entregas". Below the title, a message states: "Once you accept this assignment, your team will be granted access to the assignment repository in the icei-pucminas organization on GitHub. Be sure to select the correct team as you won't be able to change this later." At the bottom, there is a section titled "Create a new team" which contains a text input field with the placeholder "Create a new team" and a green button labeled "+ Create team".

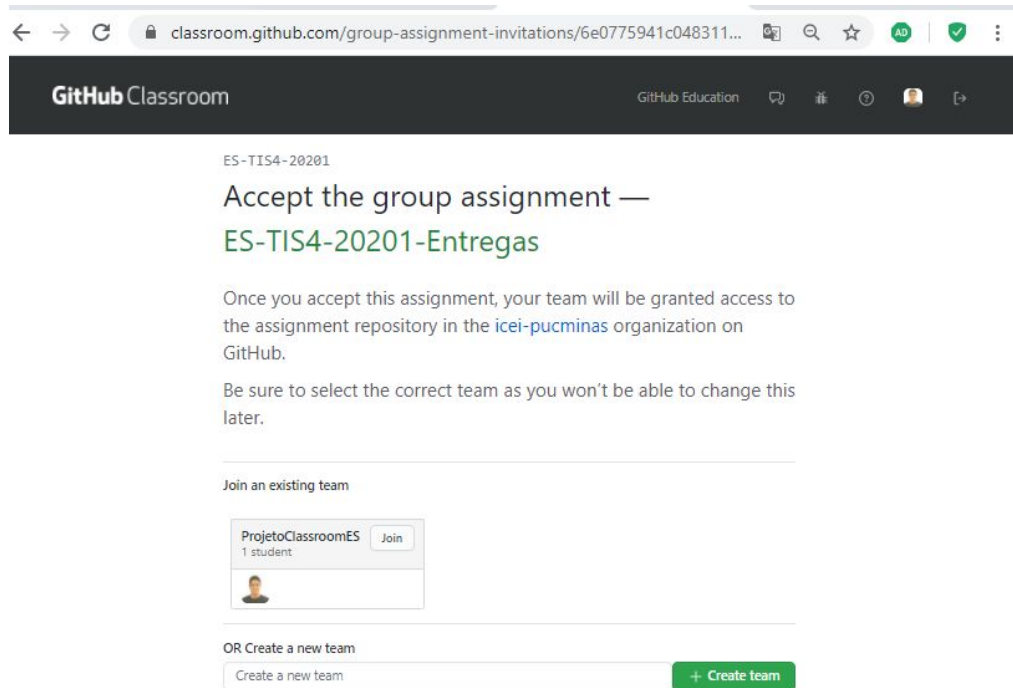
2 - b) O aluno é informado do seu repositório e equipe na organização de TI do Curso



Após isso, todas as atividades do aluno ocorrem no repositório criado.

O aluno não pode renomear o repositório criado pelo github classroom.

2 - c) Outros alunos já encontrarão a equipe criada e poderão se juntar a ela ou criar uma nova



3 - Sincronização dos Alunos no Classroom

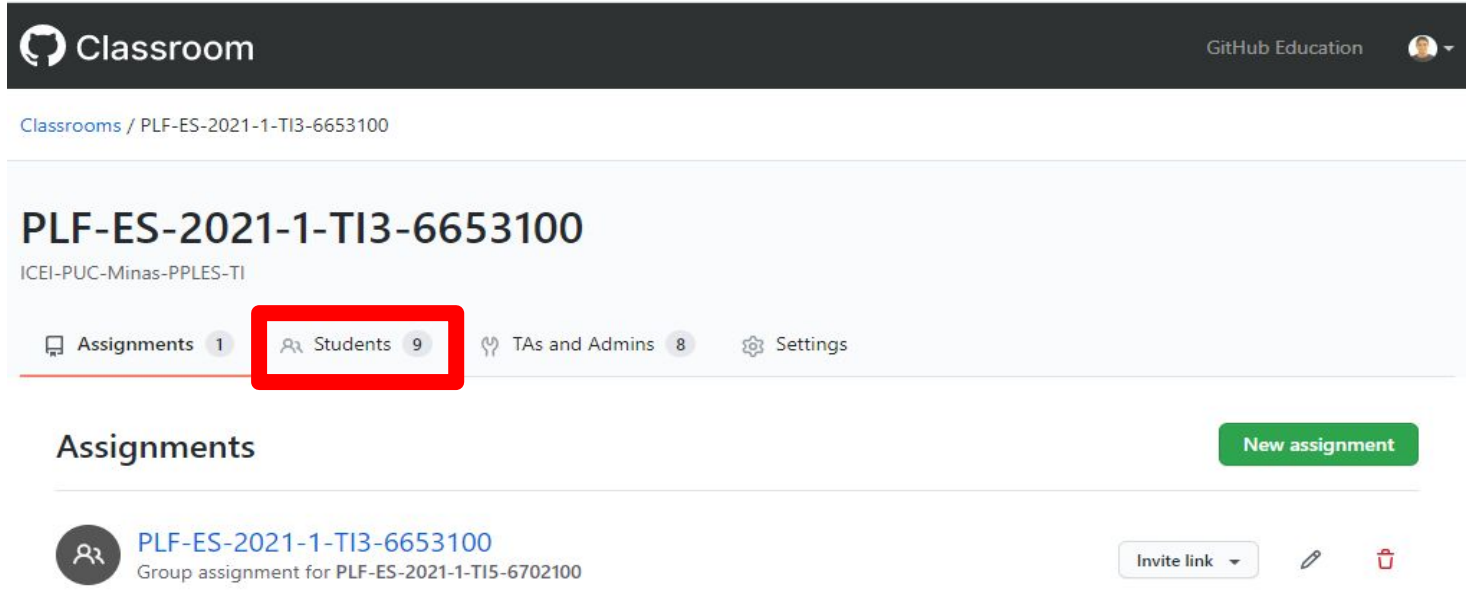
Criação dos Classrooms

Isso é ser feito pelo curso. O professor receberá o classroom configurado e com os alunos cadastrados.

Sincronização dos Alunos

*Na criação dos classrooms, os nomes dos alunos são obtidos diretamente do Canvas. Caso ocorra remoção de algum aluno da turma ou inclusão de novos alunos, o professor pode fazer a sincronização com o Canvas
A seguir são indicados os passos para essa sincronização.*

3 - a) Acessar o classroom da turma e clicar no menu **Students**



The screenshot shows the GitHub Classroom interface for a class named "PLF-ES-2021-1-TI3-6653100". The interface includes a top navigation bar with the "Classroom" logo and "GitHub Education" text. Below the header, the class name and ID are displayed. A horizontal menu contains several options: "Assignments" (1), "Students" (9), "TAs and Admins" (8), and "Settings". The "Students" option is highlighted with a red rectangular box. Below the menu, the "Assignments" section is visible, featuring a "New assignment" button. At the bottom, there is a section for the class assignment, including a group icon, the class name, and an "Invite link" button.

Classroom

GitHub Education

Classrooms / PLF-ES-2021-1-TI3-6653100


PLF-ES-2021-1-TI3-6653100

ICEI-PUC-Minas-PPLES-TI

Assignments 1 **Students 9** TAs and Admins 8 Settings

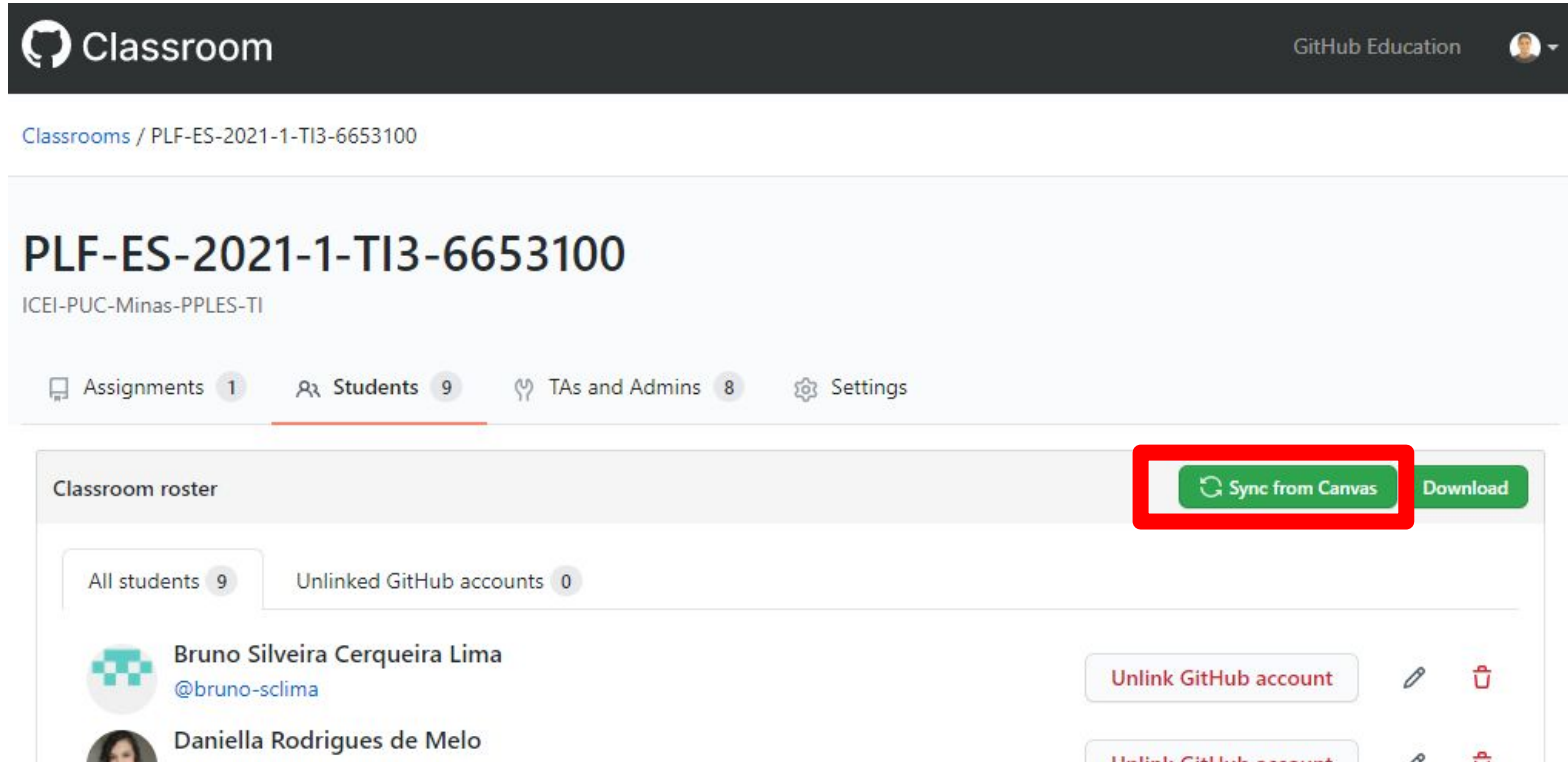
Assignments

New assignment

 **PLF-ES-2021-1-TI3-6653100**
Group assignment for PLF-ES-2021-1-TI5-6702100

Invite link

3 - b) Acima da lista de estudantes clicar no botão **verde** “Sync from Canvas”



The screenshot shows the GitHub Classroom interface. At the top is a dark header with the Classroom logo and 'GitHub Education' text. Below this is a breadcrumb trail 'Classrooms / PLF-ES-2021-1-TI3-6653100'. The main section has the class ID 'PLF-ES-2021-1-TI3-6653100' and the institution 'ICEI-PUC-Minas-PPLES-TI'. A navigation bar contains 'Assignments 1', 'Students 9' (which is underlined), 'TAs and Admins 8', and 'Settings'. Below the navigation bar is a 'Classroom roster' section. In the top right of this section, there are two green buttons: 'Sync from Canvas' and 'Download'. The 'Sync from Canvas' button is highlighted with a red rectangle. Below the buttons, there are two tabs: 'All students 9' and 'Unlinked GitHub accounts 0'. The 'All students' tab is active, showing a list of students. The first student is Bruno Silveira Cerqueira Lima with the handle @bruno-sclima. The second student is Daniella Rodrigues de Melo. To the right of each student's name are icons for 'Unlink GitHub account', edit, and delete.

Classroom

GitHub Education

Classrooms / PLF-ES-2021-1-TI3-6653100

PLF-ES-2021-1-TI3-6653100

ICEI-PUC-Minas-PPLES-TI

Assignments 1 Students 9 TAs and Admins 8 Settings

Classroom roster

Sync from Canvas Download

All students 9 Unlinked GitHub accounts 0

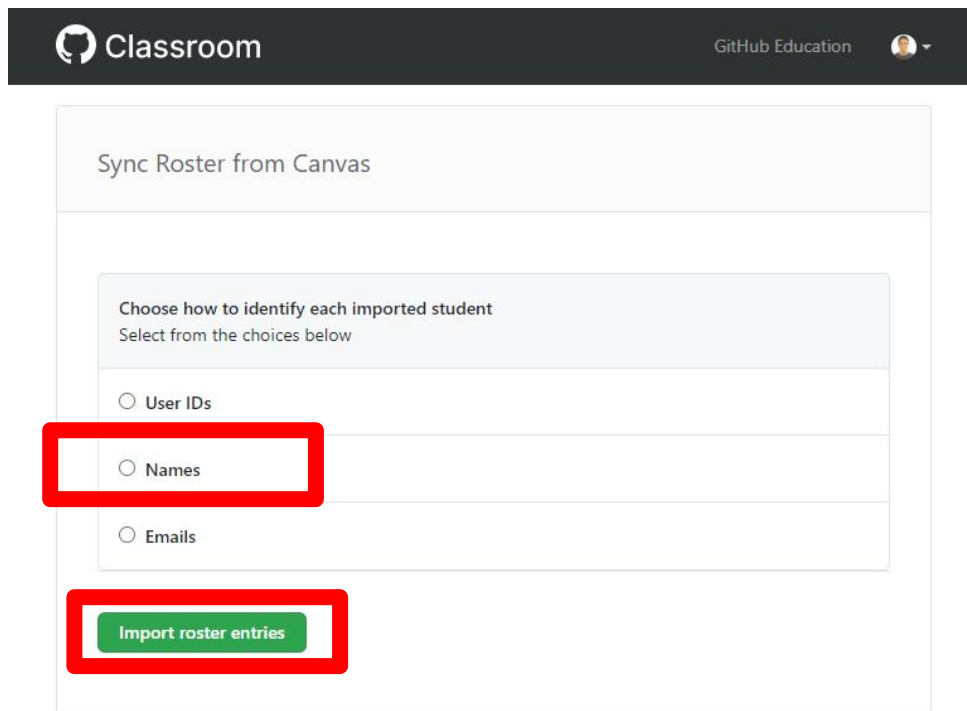
Bruno Silveira Cerqueira Lima
@bruno-sclima

Daniella Rodrigues de Melo

Unlink GitHub account

3 - c) Importar Nomes

Se não estiver sincronizado, aparecerá uma tela como a indicada abaixo, selecione “Names” e clique no botão **verde** “Import roster entries”



Classroom

GitHub Education

Sync Roster from Canvas

Choose how to identify each imported student
Select from the choices below

☐ User IDs

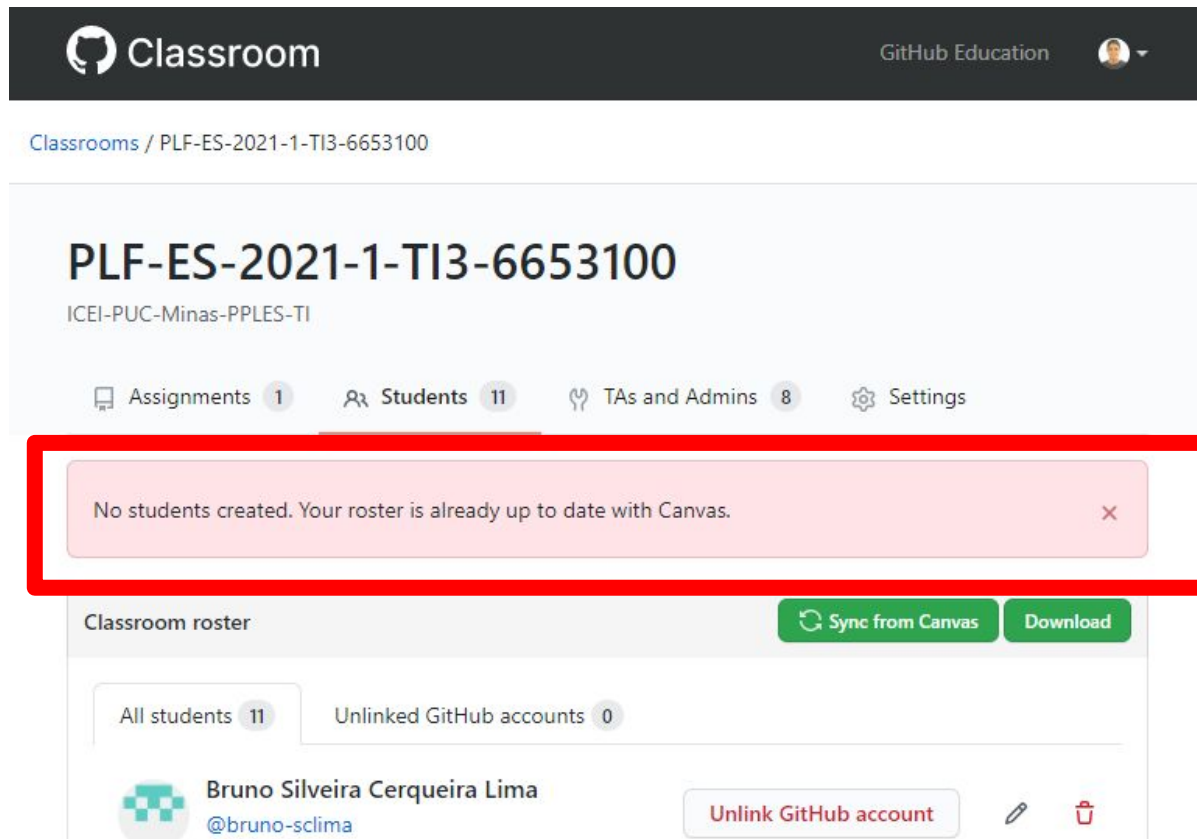
☒ Names

☐ Emails

Import roster entries

3 - d) Quando já está sincronizado

Se você clicar em sincronizar, mas já estiver sincronizado, aparecerá a mensagem como a indicada ao lado.



The screenshot shows the GitHub Classroom interface for a specific classroom. At the top, there's a dark header with the GitHub logo, the word "Classroom", "GitHub Education", and a user profile icon. Below this, the breadcrumb "Classrooms / PLF-ES-2021-1-TI3-6653100" is visible. The main section displays the classroom ID "PLF-ES-2021-1-TI3-6653100" and the institution "ICEI-PUC-Minas-PPLES-TI". A navigation bar includes links for "Assignments 1", "Students 11", "TAs and Admins 8", and "Settings". A red rectangular box highlights a pink message box that reads: "No students created. Your roster is already up to date with Canvas." Below this, the "Classroom roster" section has buttons for "Sync from Canvas" and "Download". It shows "All students 11" and "Unlinked GitHub accounts 0". At the bottom, a student profile for "Bruno Silveira Cerqueira Lima" (@bruno-sclima) is shown with an "Unlink GitHub account" button and edit/delete icons.

4 - Preenchimento dos Arquivos CITATION.cff

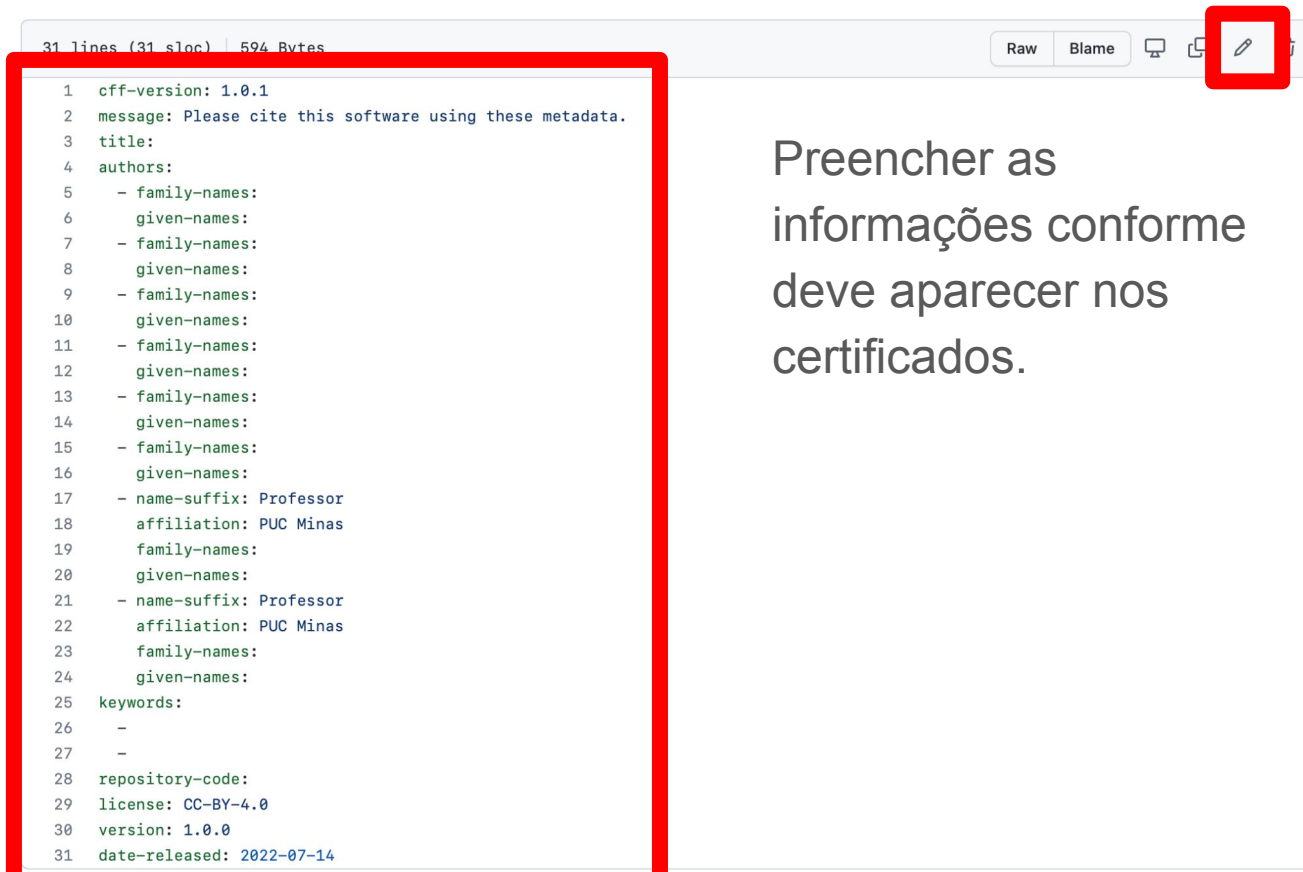
Repositórios criados a partir do Template do Curso

*Cada grupo deverá editar o arquivo CITATION.cff, preenchendo as informações do trabalho (4-a). **Os professores são responsáveis por verificar a consistência das informações.***

Demais Repositórios

*Os alunos devem criar um novo arquivo, na raiz do projeto, chamado CITATION.cff (4-b). O arquivo deve conter a estrutura padrão do curso (detalhes a seguir), com as respectivas informações. **Os professores são responsáveis por verificar a consistência das informações.***

4 - a) Edição dos Arquivos CITATION.cff

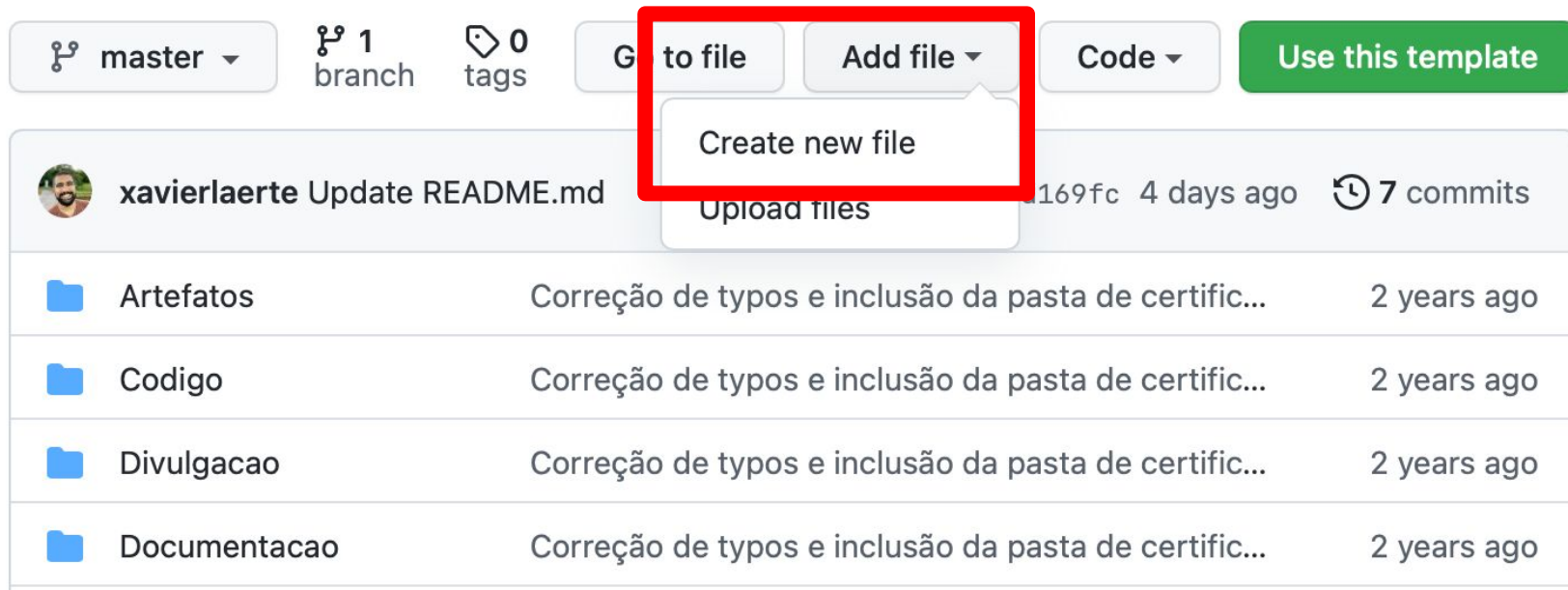


The screenshot shows a code editor window for a CITATION.cff file. The top bar indicates '31 lines (31 sloc)' and '594 Bytes'. On the right, there are buttons for 'Raw', 'Blame', and icons for a terminal, copy, and edit. The edit icon, represented by a pencil, is highlighted with a red square. The left pane, also highlighted with a red border, contains the following code:

```
1  cff-version: 1.0.1
2  message: Please cite this software using these metadata.
3  title:
4  authors:
5    - family-names:
6      given-names:
7    - family-names:
8      given-names:
9    - family-names:
10     given-names:
11    - family-names:
12     given-names:
13    - family-names:
14     given-names:
15    - family-names:
16     given-names:
17    - name-suffix: Professor
18      affiliation: PUC Minas
19      family-names:
20        given-names:
21    - name-suffix: Professor
22      affiliation: PUC Minas
23      family-names:
24        given-names:
25  keywords:
26    -
27    -
28  repository-code:
29  license: CC-BY-4.0
30  version: 1.0.0
31  date-released: 2022-07-14
```

Preencher as
informações conforme
deve aparecer nos
certificados.

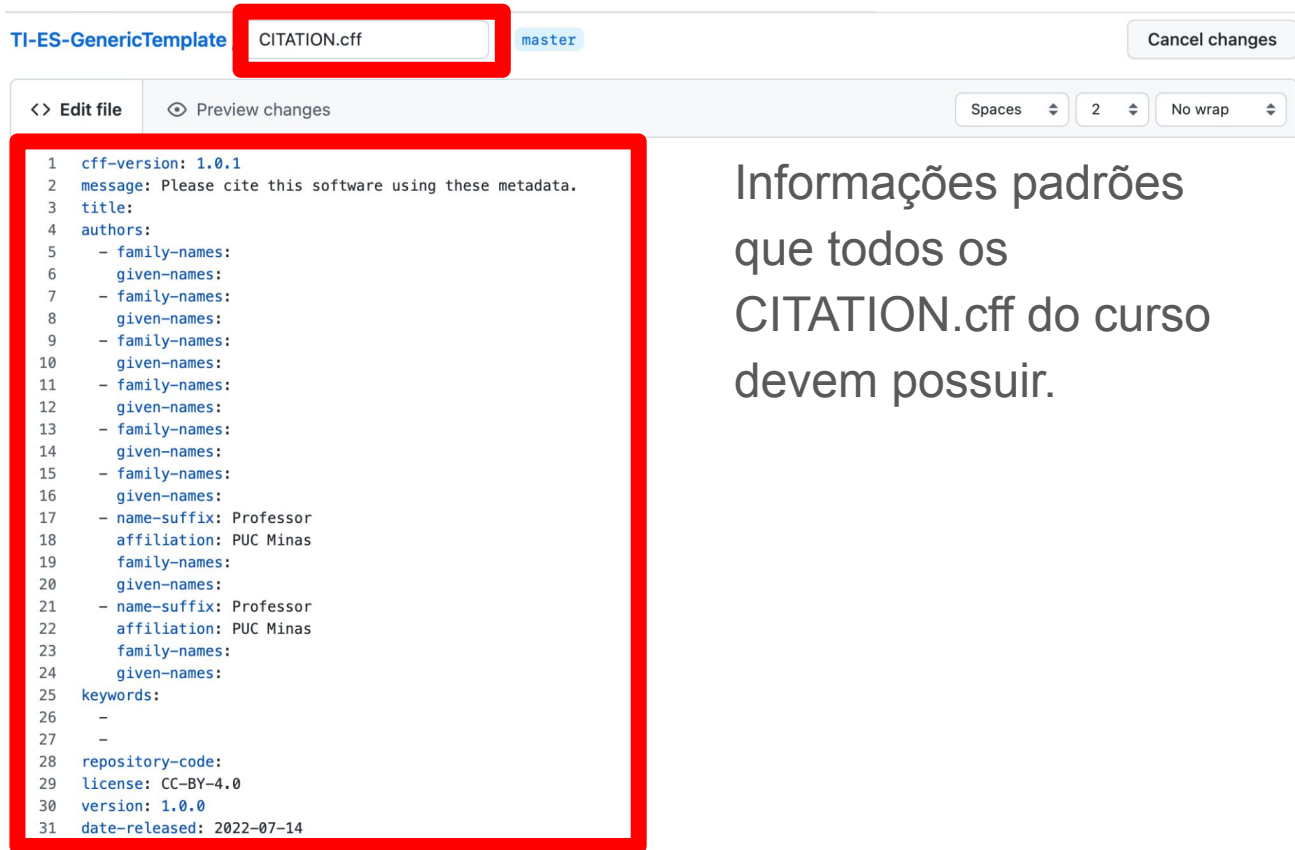
4 - b) Criação dos Arquivos CITATION.cff



The screenshot shows the GitHub repository interface for a user named xavierlaerte. The repository has 1 branch and 0 tags. The 'Add file' button is highlighted with a red box, and its dropdown menu is open, showing the option 'Create new file'. Below the repository header, there is a table listing the repository's files and folders.

File/Folder	Description	Last Commit
Artefatos	Correção de typos e inclusão da pasta de certific...	2 years ago
Codigo	Correção de typos e inclusão da pasta de certific...	2 years ago
Divulgacao	Correção de typos e inclusão da pasta de certific...	2 years ago
Documentacao	Correção de typos e inclusão da pasta de certific...	2 years ago

4 - b) Criação dos Arquivos CITATION.cff



The screenshot shows a code editor interface with a file named `CITATION.cff` selected in the top bar. The editor displays the following content:

```
1 cff-version: 1.0.1
2 message: Please cite this software using these metadata.
3 title:
4 authors:
5   - family-names:
6     given-names:
7   - family-names:
8     given-names:
9   - family-names:
10    given-names:
11  - family-names:
12    given-names:
13  - family-names:
14    given-names:
15  - family-names:
16    given-names:
17  - name-suffix: Professor
18    affiliation: PUC Minas
19    family-names:
20    given-names:
21  - name-suffix: Professor
22    affiliation: PUC Minas
23    family-names:
24    given-names:
25 keywords:
26   -
27   -
28 repository-code:
29 license: CC-BY-4.0
30 version: 1.0.0
31 date-released: 2022-07-14
```


Informações padrões
que todos os
CITATION.cff do curso
devem possuir.

Outras informações

Quer saber mais sobre o GitHub Classroom?

<https://www.youtube.com/playlist?list=PLIRjfNq867bewk3ZGV6Z7a16YDNRCPk3>


U








GitHub Classroom Getting Started Guide

10 vídeos • 3.566 visualizações • Última atualização em 27 de ago. de 2020

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-  **GitHub Classroom: Getting started**
GitHub Education
4:58
-  **GitHub Classroom: Adding your student roster**
GitHub Education
3:44
-  **GitHub Classroom: Creating assignments - Using a GitHub Repository**
GitHub Education
8:05
-  **GitHub Classroom: Creating assignments - Using Microsoft MakeCode as your Online IDE**
GitHub Education
3:47
-  **GitHub Classroom: Creating assignments - Using Repl.It as your Online IDE**
GitHub Education
2:43

Se quiser ir ainda mais além

<https://education.github.com/students>

<https://education.github.com/toolbox>

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

<https://classroom.github.com/help/connect-to-lms>