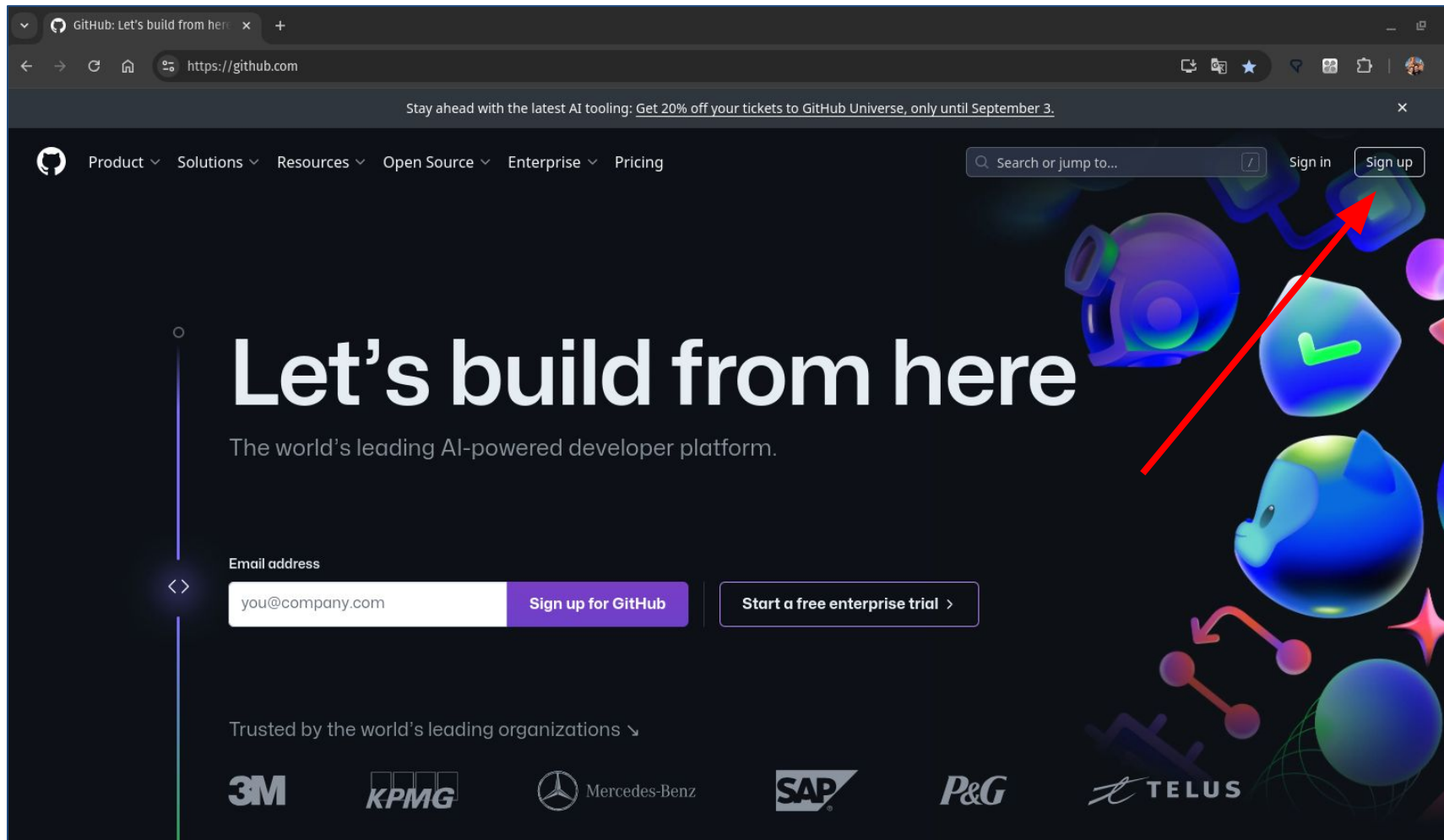




GITHUB

Professor: Rafael Marinho e Silva

ACCESSAR <https://github.com/>



The image is a screenshot of the GitHub homepage in a web browser. The browser's address bar shows 'https://github.com'. A dark banner at the top of the page contains the GitHub logo, navigation links (Product, Solutions, Resources, Open Source, Enterprise, Pricing), a search bar, and 'Sign in' and 'Sign up' buttons. Below the banner, the main heading reads 'Let's build from here' with the subtext 'The world's leading AI-powered developer platform.' To the right of this text is a large, colorful graphic of a blue cat-like character surrounded by various geometric shapes and icons. Below the heading is a sign-up form with a text input field containing 'you@company.com', a purple 'Sign up for GitHub' button, and a 'Start a free enterprise trial >' button. At the bottom, a section titled 'Trusted by the world's leading organizations' displays logos for 3M, KPMG, Mercedes-Benz, SAP, P&G, and TELUS. A red arrow points from the bottom right towards the 'Sign up' button in the top navigation bar.

GitHub: Let's build from here x +

https://github.com

Stay ahead with the latest AI tooling: [Get 20% off your tickets to GitHub Universe, only until September 3.](#)

Product Solutions Resources Open Source Enterprise Pricing

Search or jump to... [icon]

Sign in Sign up

Let's build from here

The world's leading AI-powered developer platform.

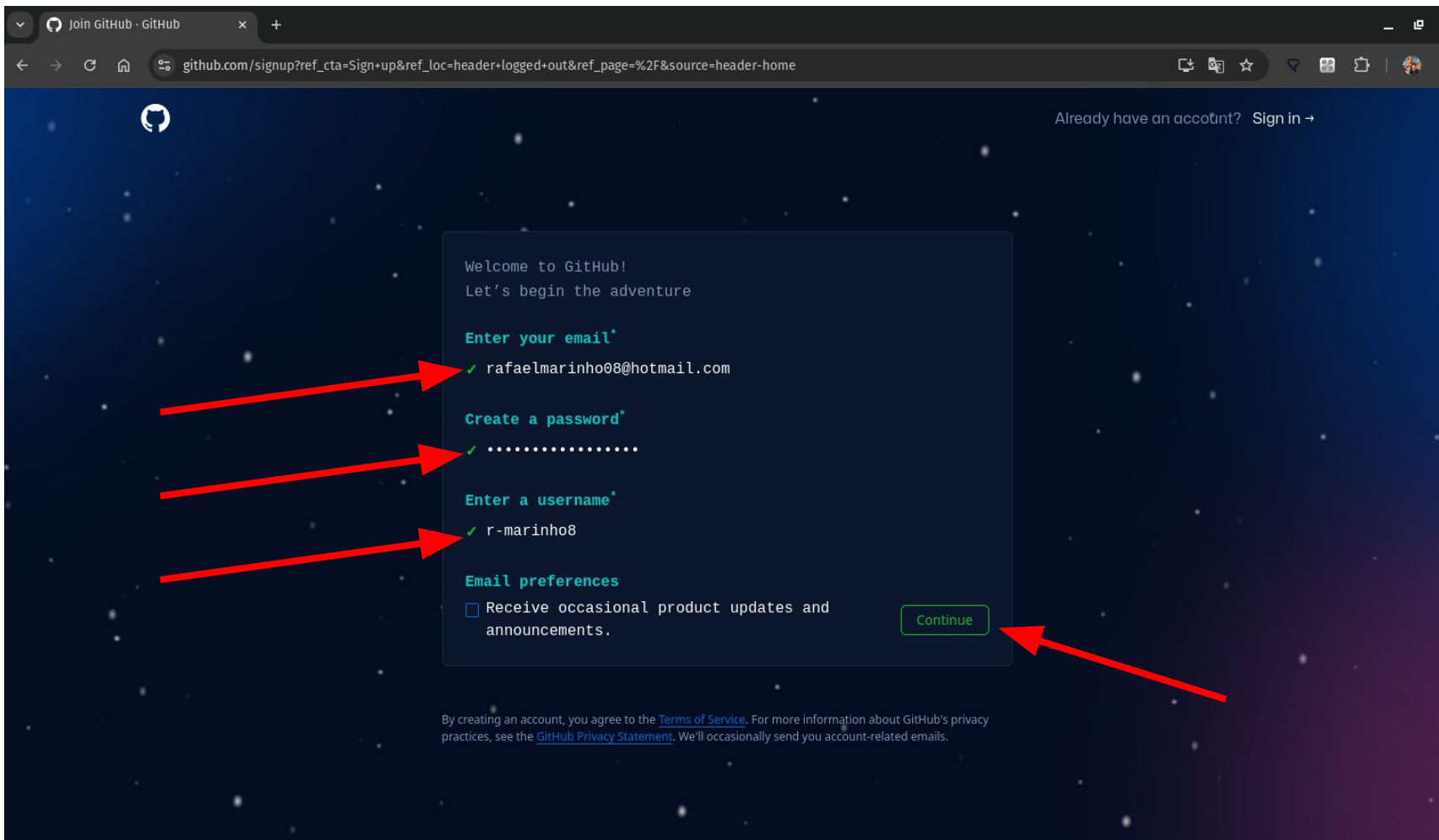
Email address

<> you@company.com Sign up for GitHub Start a free enterprise trial >

Trusted by the world's leading organizations

3M KPMG Mercedes-Benz SAP P&G TELUS

CADASTRAR CONTA



Join GitHub · GitHub

github.com/signup?ref_cta=Sign+up&ref_loc=header-logged+out&ref_page=%2F&source=header-home

Already have an account? [Sign in](#) →

Welcome to GitHub!
Let's begin the adventure

Enter your email*

✓ rafaelmarinho08@hotmail.com

Create a password*

✓

Enter a username*

✓ r-marinho8

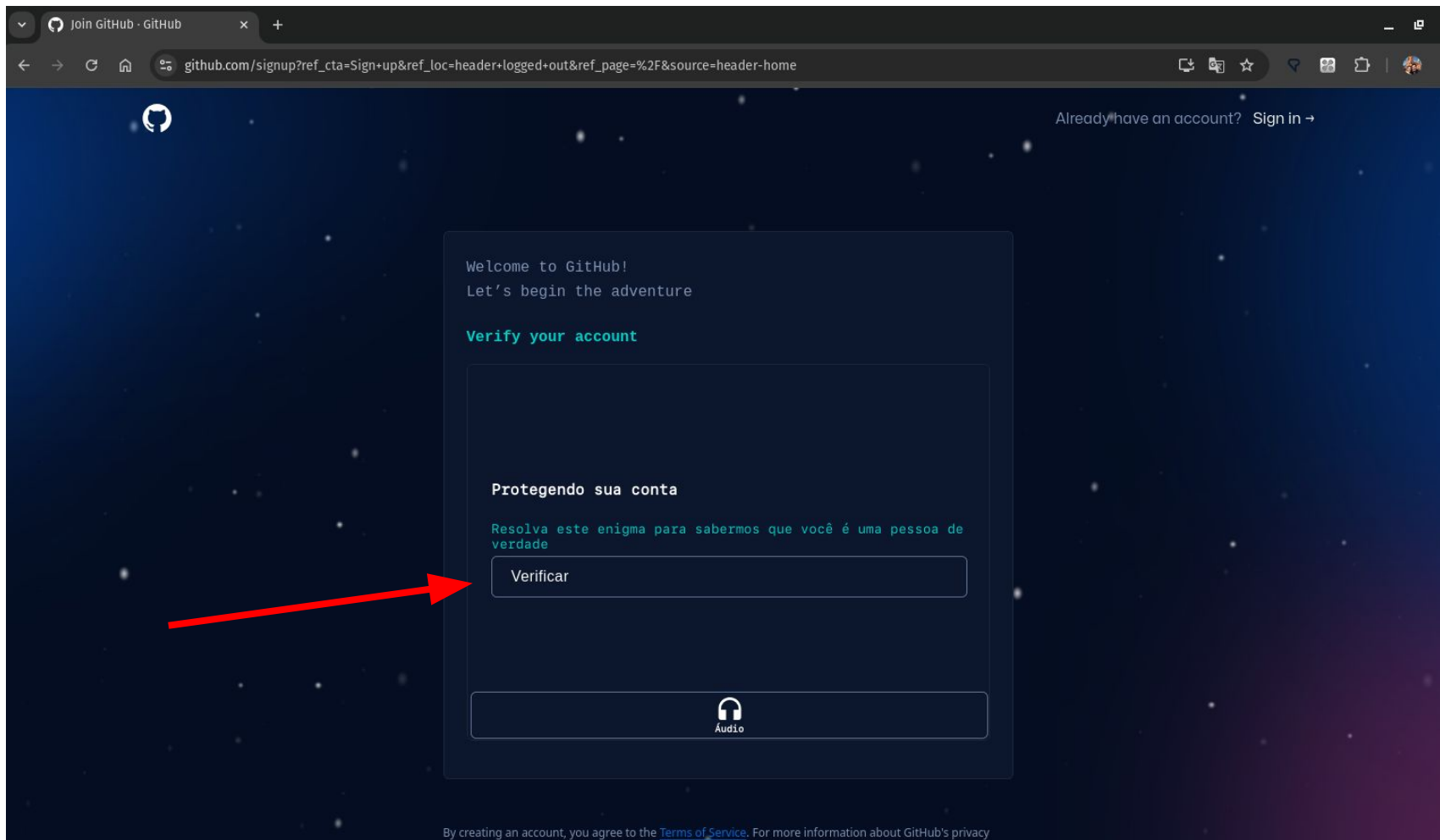
Email preferences

☐ Receive occasional product updates and announcements.

[Continue](#)

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

CADASTRAR CONTA



Join GitHub · GitHub

github.com/signup?ref_cta=Sign+up&ref_loc=header+logged+out&ref_page=%2F&source=header-home

Already have an account? [Sign in](#) →

Welcome to GitHub!
Let's begin the adventure

Verify your account

Protegendo sua conta

Resolva este enigma para sabermos que você é uma pessoa de verdade

Verificar

Audio

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy

CADASTRAR CONTA

Join GitHub · GitHub

github.com/signup?ref_cta=Sign+up&ref_loc=header+logged+out&ref_page=%2F&source=header-home

Already have an account? [Sign in](#) →

Welcome to GitHub!
Let's begin the adventure

Verify your account

Use as setas para girar o objeto para a direção que a mão está apontando. (1 de 1)

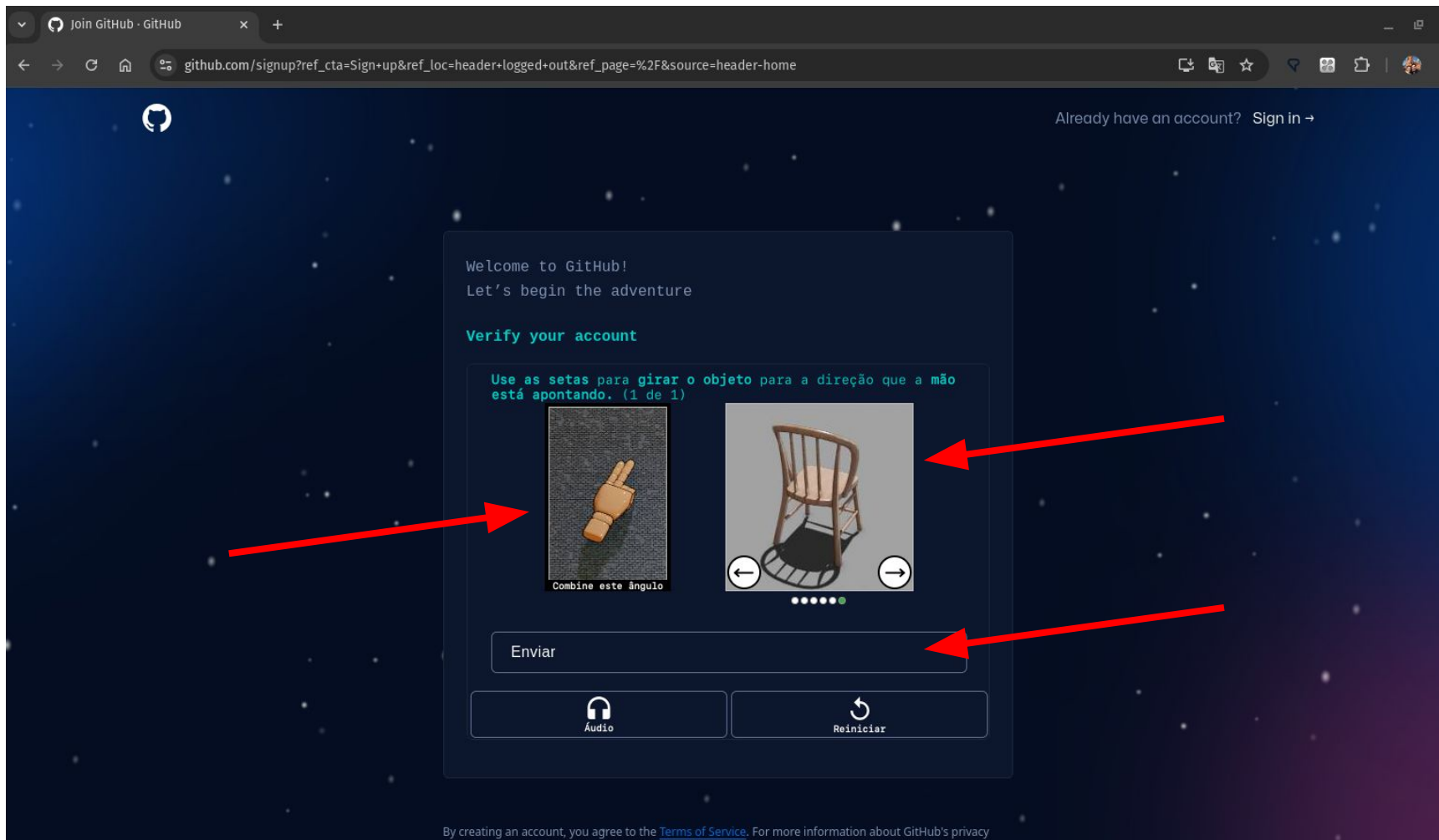
Combine este ângulo

Enviar

Audio

Reiniciar

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy



CADASTRAR CONTA - VALIDAR CÓDIGO ENVIADO PARA E-MAIL

Please verify your email address

github.com/account_verifications?recommend_plan=true

Already have an account? [Sign in](#)

You're almost done!
We sent a launch code to `rafaelmarinho08@hotmail.com`

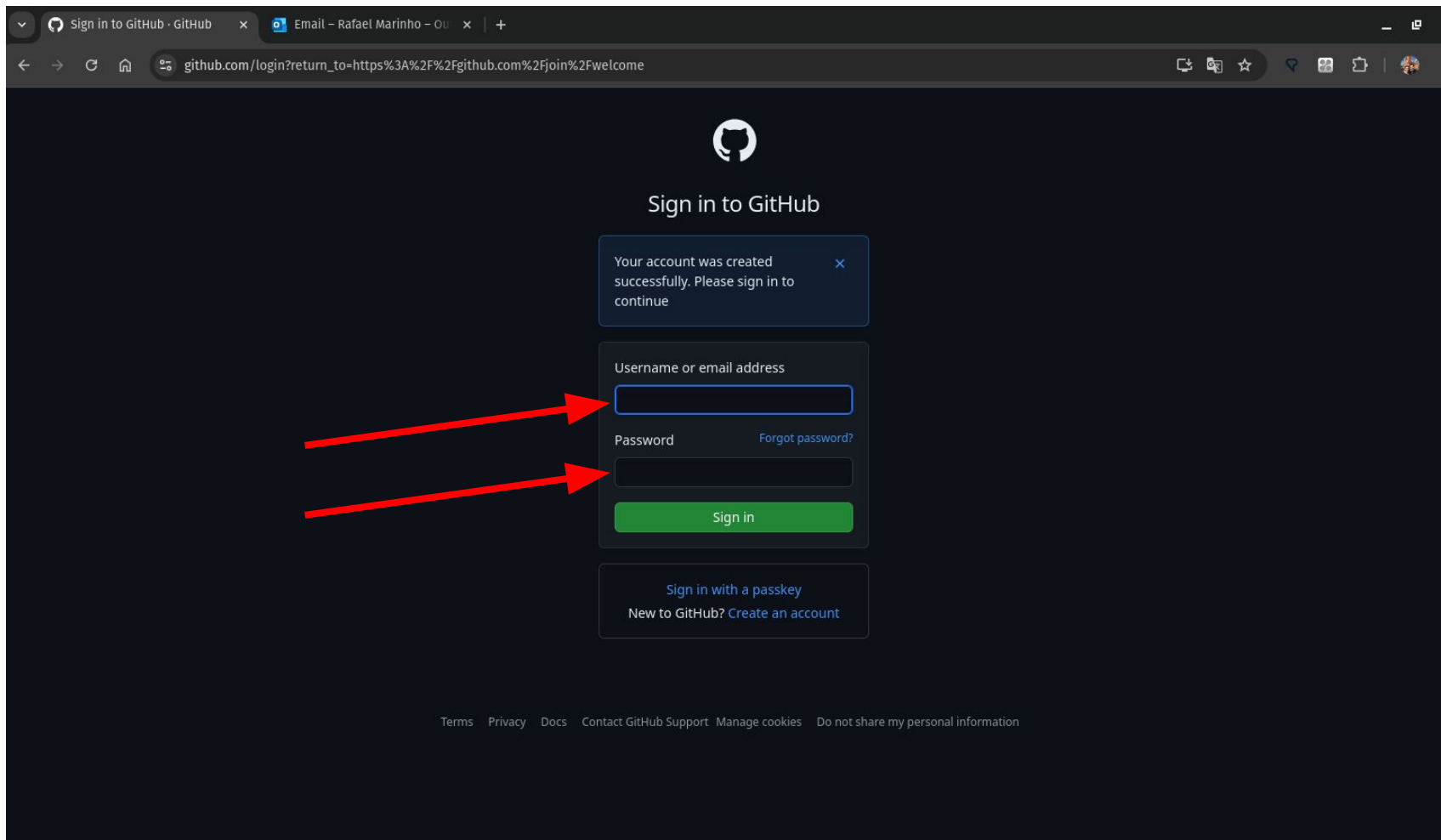
→ Enter code

Didn't get your email? [Resend the code](#) or [update your email address](#).

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#). We'll occasionally send you account-related emails.

© 2024 GitHub, Inc. [Terms](#) [Privacy](#) [Security](#) [Status](#) [Docs](#) [Contact](#) [Manage cookies](#) [Do not share my personal information](#)

ACESSAR CONTA CRIADA



The screenshot shows the GitHub login page in a web browser. The browser's address bar displays the URL: `github.com/login?return_to=https%3A%2F%2Fgithub.com%2Fjoin%2Fwelcome`. The page features the GitHub logo at the top center, followed by the heading "Sign in to GitHub". A success message in a blue box states: "Your account was created successfully. Please sign in to continue". Below this, there are two input fields: "Username or email address" and "Password". Two red arrows point to these fields from the left. A "Forgot password?" link is positioned next to the password field. A green "Sign in" button is located below the input fields. At the bottom of the form, there is a link for "Sign in with a passkey" and another for "New to GitHub? Create an account". The footer of the page contains links for "Terms", "Privacy", "Docs", "Contact GitHub Support", "Manage cookies", and "Do not share my personal information".

Sign in to GitHub · GitHub

Email – Rafael Marinho – OU

github.com/login?return_to=https%3A%2F%2Fgithub.com%2Fjoin%2Fwelcome

Sign in to GitHub

Your account was created successfully. Please sign in to continue

Username or email address

Password [Forgot password?](#)

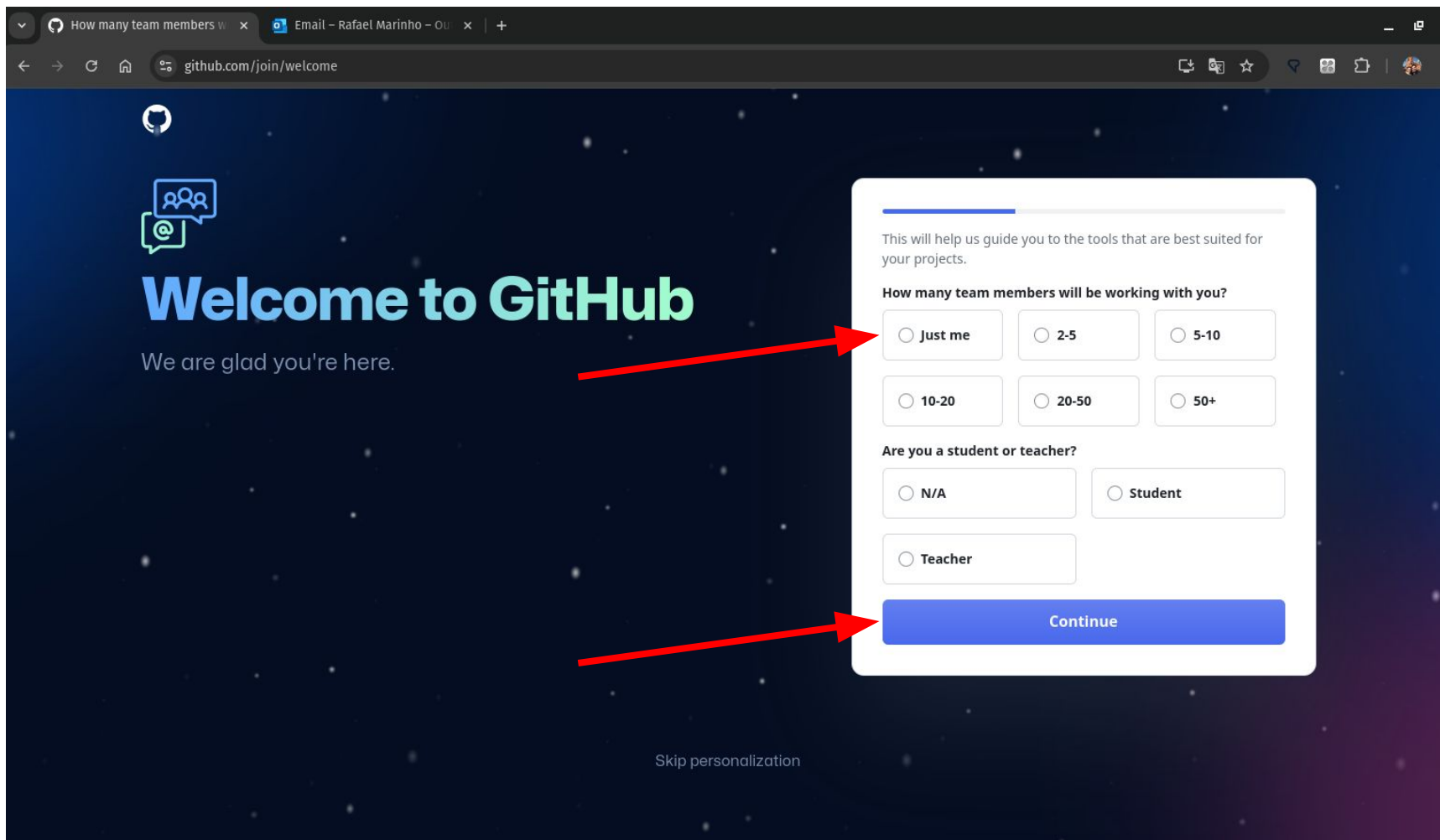
Sign in

[Sign in with a passkey](#)

New to GitHub? [Create an account](#)

[Terms](#) [Privacy](#) [Docs](#) [Contact GitHub Support](#) [Manage cookies](#) [Do not share my personal information](#)

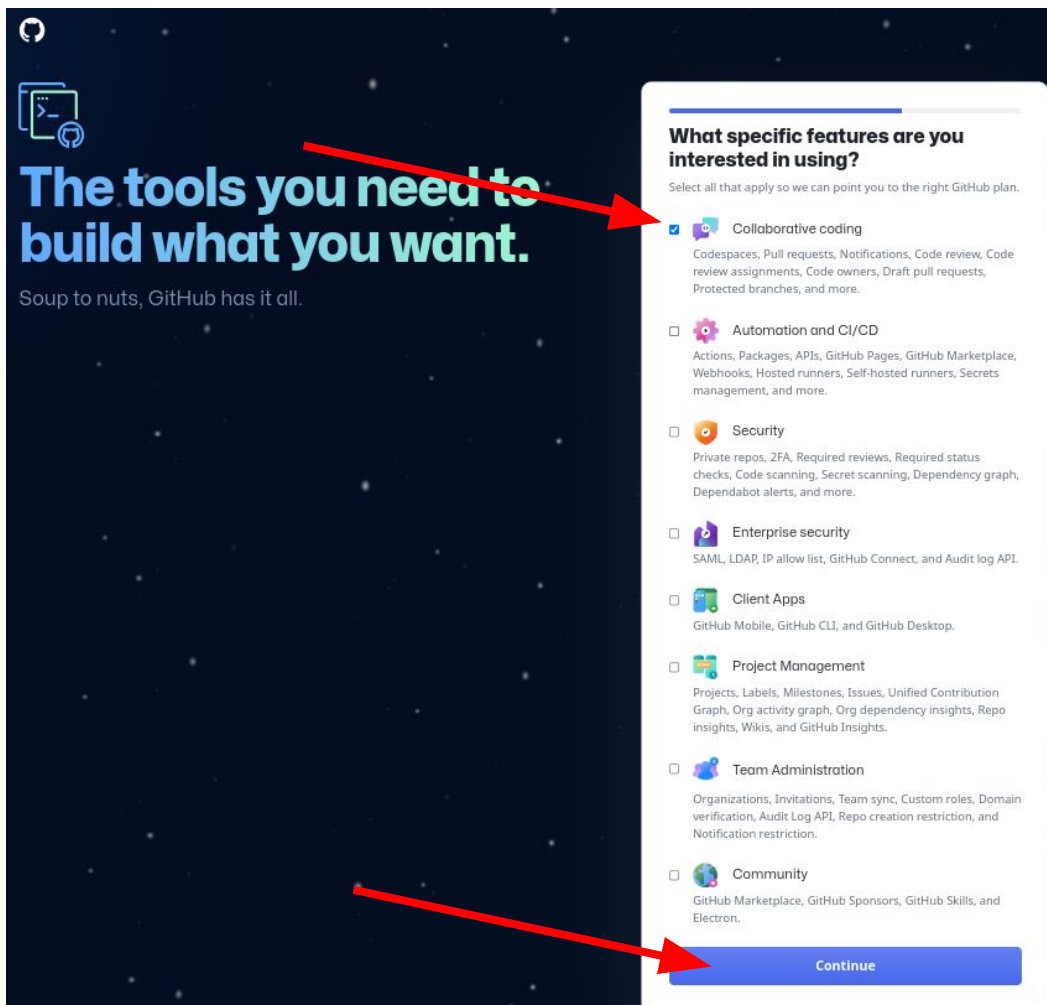
ACESSAR CONTA CRIADA



The screenshot shows the GitHub welcome page in a web browser. The browser's address bar displays 'github.com/join/welcome'. The page features the GitHub logo and the text 'Welcome to GitHub' in a large, light blue font, followed by 'We are glad you're here.' in a smaller, lighter blue font. On the right side, there is a white personalization form with a blue progress bar at the top. The form contains the following sections:

- A heading: 'This will help us guide you to the tools that are best suited for your projects.'
- A question: 'How many team members will be working with you?' with six radio button options: 'Just me', '2-5', '5-10', '10-20', '20-50', and '50+'. A red arrow points to the 'Just me' option.
- A question: 'Are you a student or teacher?' with three radio button options: 'N/A', 'Student', and 'Teacher'.
- A blue 'Continue' button at the bottom of the form. A red arrow points to this button.
- A link at the bottom of the page: 'Skip personalization'.

ACESSAR CONTA CRIADA



The image shows the GitHub account setup interface. On the left, a dark blue background features the GitHub logo, a code editor icon, and the text "The tools you need to build what you want. Soup to nuts, GitHub has it all." A red arrow points from this text to the "Collaborative coding" option in the feature list. On the right, a white panel titled "What specific features are you interested in using?" contains a list of features with checkboxes. The "Collaborative coding" checkbox is checked. Below the list is a blue "Continue" button, which is also pointed to by a red arrow.

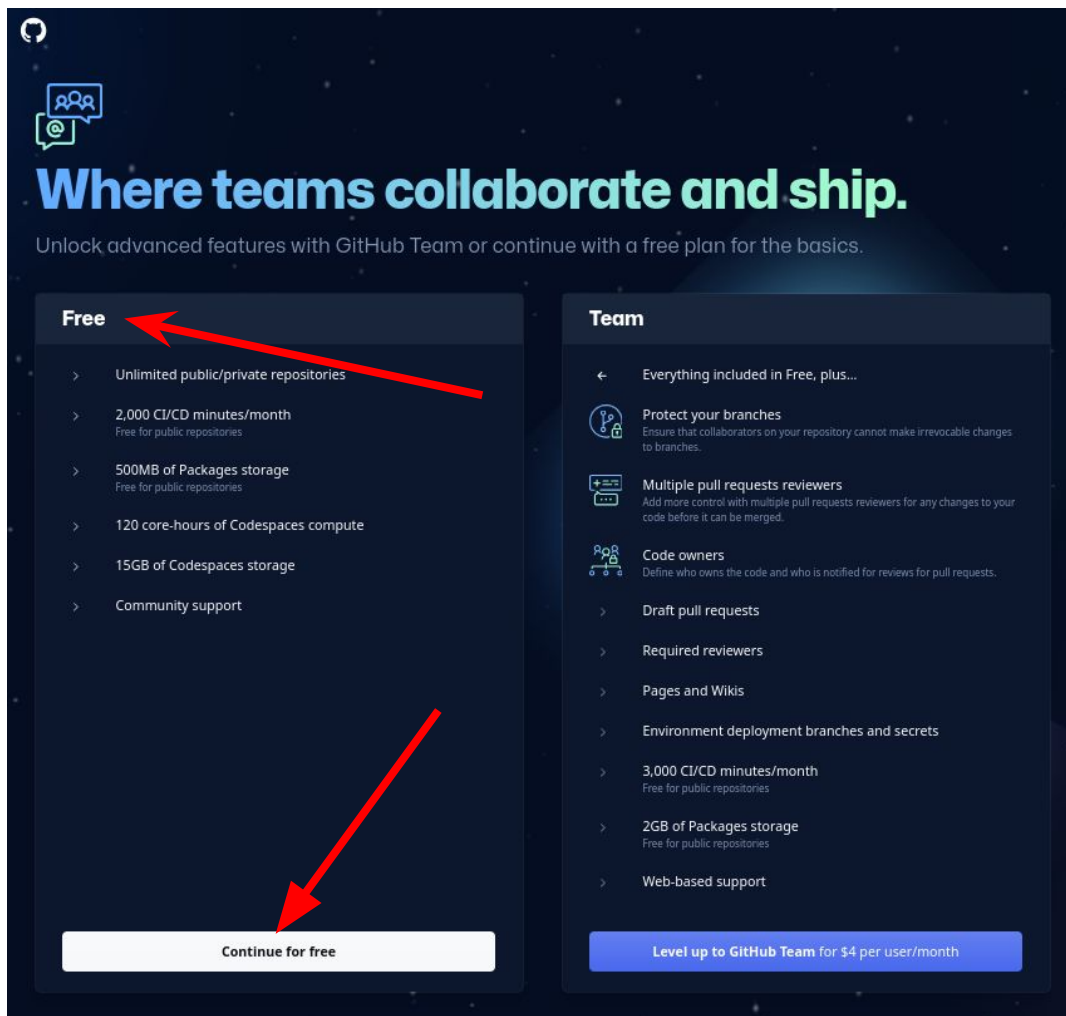
The tools you need to build what you want.
Soup to nuts, GitHub has it all.

What specific features are you interested in using?
Select all that apply so we can point you to the right GitHub plan.

- ☒ **Collaborative coding**
Codespaces, Pull requests, Notifications, Code review, Code review assignments, Code owners, Draft pull requests, Protected branches, and more.
- ☐ **Automation and CI/CD**
Actions, Packages, APIs, GitHub Pages, GitHub Marketplace, Webhooks, Hosted runners, Self-hosted runners, Secrets management, and more.
- ☐ **Security**
Private repos, 2FA, Required reviews, Required status checks, Code scanning, Secret scanning, Dependency graph, Dependabot alerts, and more.
- ☐ **Enterprise security**
SAML, LDAP, IP allow list, GitHub Connect, and Audit log API.
- ☐ **Client Apps**
GitHub Mobile, GitHub CLI, and GitHub Desktop.
- ☐ **Project Management**
Projects, Labels, Milestones, Issues, Unified Contribution Graph, Org activity graph, Org dependency insights, Repo insights, Wikis, and GitHub Insights.
- ☐ **Team Administration**
Organizations, Invitations, Team sync, Custom roles, Domain verification, Audit Log API, Repo creation restriction, and Notification restriction.
- ☐ **Community**
GitHub Marketplace, GitHub Sponsors, GitHub Skills, and Electron.

Continue

ACESSAR CONTA CRIADA



Where teams collaborate and ship.

Unlock advanced features with GitHub Team or continue with a free plan for the basics.




Free

- > Unlimited public/private repositories
- > 2,000 CI/CD minutes/month
Free for public repositories
- > 500MB of Packages storage
Free for public repositories
- > 120 core-hours of Codespaces compute
- > 15GB of Codespaces storage
- > Community support

[Continue for free](#)

Team

← Everything included in Free, plus...

-  **Protect your branches**
Ensure that collaborators on your repository cannot make irrevocable changes to branches.
-  **Multiple pull requests reviewers**
Add more control with multiple pull requests reviewers for any changes to your code before it can be merged.
-  **Code owners**
Define who owns the code and who is notified for reviews for pull requests.
- > Draft pull requests
- > Required reviewers
- > Pages and Wikis
- > Environment deployment branches and secrets
- > 3,000 CI/CD minutes/month
Free for public repositories
- > 2GB of Packages storage
Free for public repositories
- > Web-based support

[Level up to GitHub Team for \\$4 per user/month](#)

CRIAR REPOSITÓRIO

The screenshot shows the GitHub Dashboard interface. On the left sidebar, under 'Create your first project', there are two buttons: 'Create repository' (highlighted with a red arrow) and 'Import repository'. The main content area is titled 'Home' and contains several cards: 'Start a new repository for r-marinho8', 'Introduce yourself with a profile README', 'Simplify your development workflow with a GUI', and 'Get AI-based coding suggestions'. On the right, there is a section 'Explore repositories' listing popular repositories like 'linuxserver / docker-wireguard', 'open-quantum-safe / liboqs', and 'minetest / minetest'.

Create your first project
Ready to start building? Create a repository for a new idea or bring over an existing repository to keep contributing to it.

[Create repository](#) [Import repository](#)

Home

[Send feedback](#) [Filter](#)

[Start writing code](#)

Start a new repository for r-marinho8

A repository contains all of your project's files, revision history, and collaborator discussion.

Repository name *
name your new repository...

☐ **Public**
Anyone on the internet can see this repository

☒ **Private**
You choose who can see and commit to this repository

[Create a new repository](#)

Introduce yourself with a profile README

Share information about yourself by creating a profile README, which appears at the top of your profile page.

r-marinho8 / README.md [Create](#)

```
1 - 🙋 Hi, I'm @r-marinho8
2 - 🐼 I'm interested in ...
3 - 🌱 I'm currently learning ...
4 - 💖 I'm looking to collaborate on ...
5 - 📫 How to reach me ...
6 - 🗨 Pronouns: ...
7 - ✨ Fun fact: ...
8
```

Explore repositories

[linuxserver / docker-wireguard](#) ☆
2.8k Dockerfile

[open-quantum-safe / liboqs](#) ☆
C library for prototyping and experimenting with quantum-resistant cryptography
1.7k C

[minetest / minetest](#) ☆
Minetest is an open source voxel game-creation platform with easy modding and game creation
10.5k C++
[Explore more](#)

Simplify your development workflow with a GUI

[Install GitHub Desktop](#) to visualize, commit, and push changes without ever touching the command line.

Get AI-based coding suggestions

[Try GitHub Copilot free for 30 days](#), which suggests entire functions in real time, right from your editor.

[Get started on GitHub](#)

CRIAR REPOSITÓRIO

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk (*).

Owner *

 r-marinho8

Repository name *

/ estrutura-de-dados-algoritmos

✔ estrutura-de-dados-algoritmos is available.

Great repository names are short and memorable. Need inspiration? How about [friendly-funicular](#) ?

Description (optional)

Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período.

☐



Public

Anyone on the internet can see this repository. You choose who can commit.

☒



Private

You choose who can see and commit to this repository.

Initialize this repository with:

☐

Add a README file

This is where you can write a long description for your project. [Learn more about READMEs](#).

Add .gitignore


.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files](#).

Choose a license

License: None

A license tells others what they can and can't do with your code. [Learn more about licenses](#).

 You are creating a private repository in your personal account.

Create repository

CRIAR REPOSITÓRIO

The screenshot shows the GitHub interface for a repository named 'estrutura-de-dados-algoritmos' by user 'r-marinho8'. The repository is private. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. Below the repository name, there are buttons for Unwatch (1), Fork (0), and Star (0). The main content area features two cards: 'Set up GitHub Copilot' and 'Add collaborators to this repository'. Below these is a 'Quick setup' section with a text input field containing the repository URL and a copy icon. A red arrow points to the 'README' link in the text below the input field. The 'Quick setup' section also includes links for 'creating a new file' and 'uploading an existing file'. Below the 'Quick setup' section are two sections for creating or pushing a repository from the command line, each with a code block and a copy icon.

Set up GitHub Copilot
Use GitHub's AI pair programmer to autocomplete suggestions as you code.
[Get started with GitHub Copilot](#)

Add collaborators to this repository
Search for people using their GitHub username or email address.
[Invite collaborators](#)

Quick setup — if you've done this kind of thing before

[HTTPS](#) [SSH](#) [Copy](#)

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

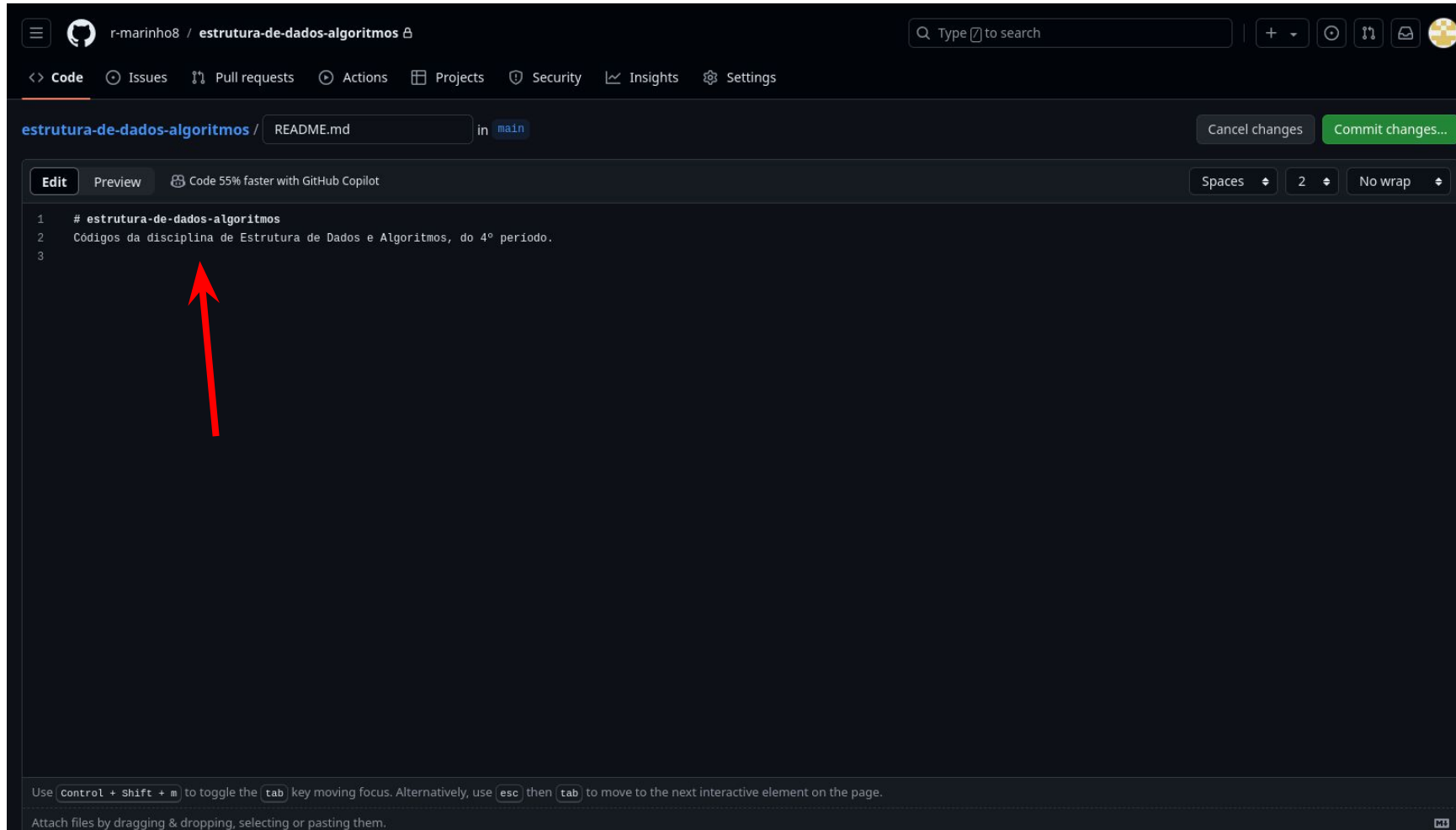
...or create a new repository on the command line

```
echo "# estrutura-de-dados-algoritmos" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/r-marinho8/estrutura-de-dados-algoritmos.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/r-marinho8/estrutura-de-dados-algoritmos.git
git branch -M main
git push -u origin main
```

CRIAR REPOSITÓRIO



The screenshot shows the GitHub web interface for a repository named 'estrutura-de-dados-algoritmos' by user 'r-marinho8'. The repository is currently in the 'main' branch, and the 'README.md' file is being edited. The interface includes a top navigation bar with links to Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. Below the navigation bar, the file name 'estrutura-de-dados-algoritmos / README.md' is displayed, along with 'in main' and buttons for 'Cancel changes' and 'Commit changes...'. The editor area shows the file content with line numbers 1, 2, and 3. The content is as follows:

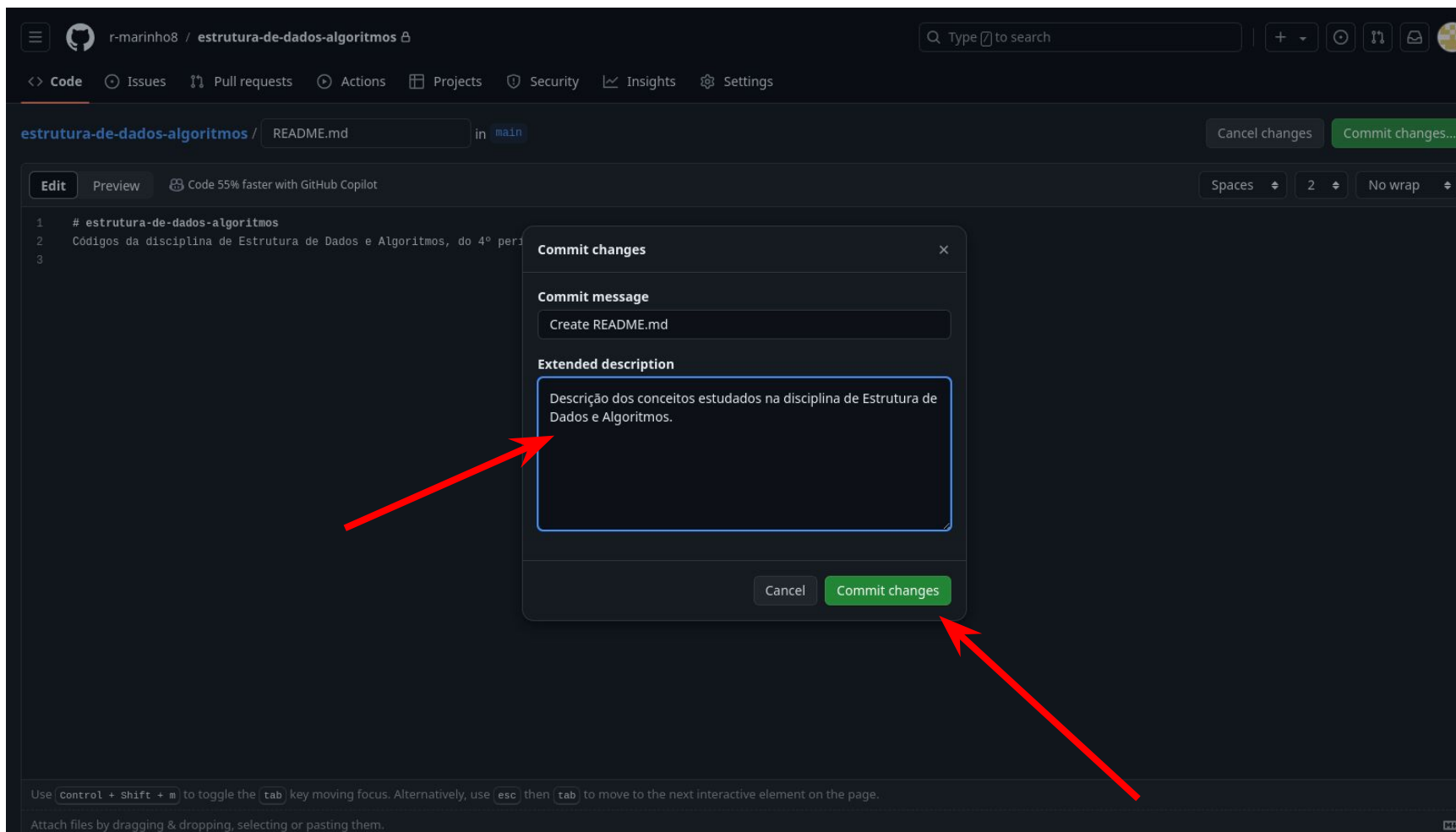
```
1 # estrutura-de-dados-algoritmos
2 Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período.
3
```

Two red arrows are present: one pointing to the first line of code and another pointing to the 'Commit changes...' button. The bottom of the interface features a footer with keyboard shortcuts and a status bar.

Use **Control + Shift + m** to toggle the **tab** key moving focus. Alternatively, use **esc** then **tab** to move to the next interactive element on the page.

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

CRIAR REPOSITÓRIO



CRIAR REPOSITÓRIO

The screenshot shows the GitHub interface for a repository named 'estrutura-de-dados-algoritmos' by user 'r-marinho8'. The repository is in the 'main' branch. The file 'README.md' is selected, and its preview is displayed. The preview shows the repository name as a heading and a description: 'Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período.' A red arrow points to the repository name in the breadcrumb path 'estrutura-de-dados-algoritmos / README.md'. A tooltip above the arrow says 'Para sair do modo tela cheia, pressione F11'.

Para sair do modo tela cheia, pressione **F11**

estrutura-de-dados-algoritmos / README.md

r-marinho8 Create README.md 38da2af · 8 minutes ago History

Preview Code Blame 2 lines (2 loc) · 108 Bytes Code 55% faster with GitHub Copilot Raw Copy Download Edit

estrutura-de-dados-algoritmos

Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período.

CRIAR REPOSITÓRIO

The screenshot shows the GitHub interface for a repository named 'estrutura-de-dados-algoritmos' by user 'r-marinho8'. The repository is private and has 1 branch and 0 tags. A modal for 'Codespaces' is open, showing that there are no codespaces currently set up for this repository. The modal includes a button to 'Create codespace on main' and a link to 'Learn more about codespaces...'. The repository description is 'Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período.' The right sidebar shows repository statistics: 0 stars, 1 watching, and 0 forks. The bottom of the page features the GitHub footer with copyright information for 2024.

GitHub interface showing the repository **estrutura-de-dados-algoritmos** by **r-marinho8**. The repository is private and has 1 branch and 0 tags.

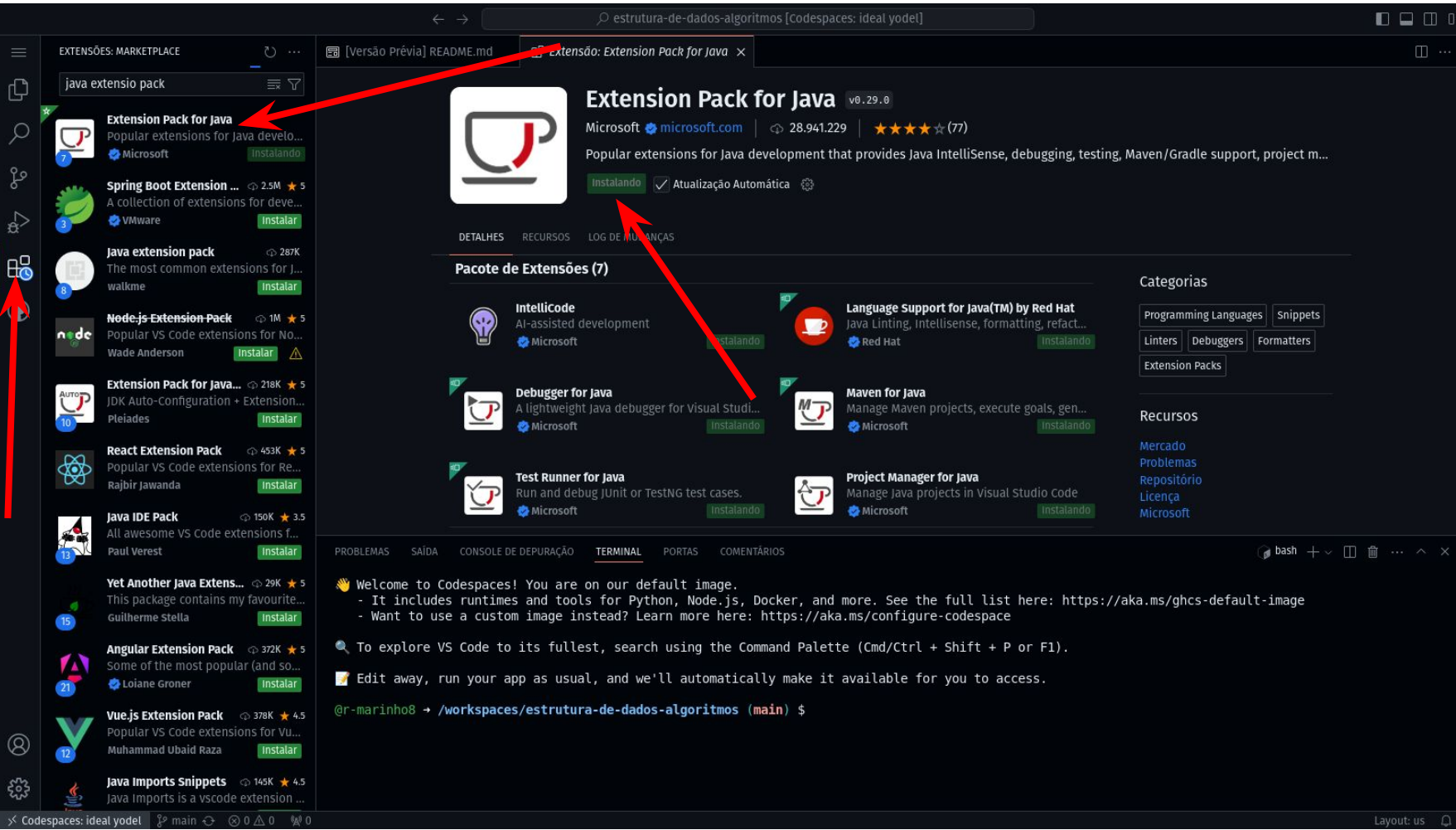
The **Code** button is highlighted with a red arrow, and the **Codespaces** modal is open, showing options to create a codespace. The modal text states: "No codespaces. You don't have any codespaces with this repository checked out. Create codespace on main. Learn more about codespaces..."

The repository description is: "Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período."

The right sidebar shows repository statistics: 0 stars, 1 watching, and 0 forks.

Footer: © 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information

CRIAR REPOSITÓRIO



CRIAR REPOSITÓRIO

The screenshot displays the Visual Studio Code interface within a Codespaces environment. The top browser-like bar shows the repository name 'estrutura-de-dados-algoritmos [Codespaces: ideal yodel]'. On the left sidebar, the 'EXPLORADOR' (Explorer) view is active, showing a file tree for the repository. A red arrow points to the 'aula01' folder, which contains a 'README.md' file. The main editor area displays the 'README.md' content, which includes the title 'estrutura-de-dados-algoritmos' and a description: 'Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período.' The bottom panel shows the 'TERMINAL' view with a 'bash' prompt. The terminal output includes a welcome message and instructions for using Codespaces, followed by the current directory path: '@r-marinho8 → /workspaces/estrutura-de-dados-algoritmos (main) \$'.

EXPLORADOR

ESTRUTURA-DE-DADOS-ALGORITMOS [CODESPACES: ID...]

aula01

README.md

estrutura-de-dados-algoritmos

Códigos da disciplina de Estrutura de Dados e Algoritmos, do 4º período.

PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO **TERMINAL** PORTAS COMENTÁRIOS

bash

Welcome to Codespaces! You are on our default image.

- It includes runtimes and tools for Python, Node.js, Docker, and more. See the full list here: <https://aka.ms/ghcs-default-image>
- Want to use a custom image instead? Learn more here: <https://aka.ms/configure-codespace>

To explore VS Code to its fullest, search using the Command Palette (Cmd/Ctrl + Shift + P or F1).

Edit away, run your app as usual, and we'll automatically make it available for you to access.

@r-marinho8 → /workspaces/estrutura-de-dados-algoritmos (main) \$

ESTRUTURA DO CÓDIGO

LINHA DO TEMPO

Codespaces: ideal yodel

main

Layout: us

Agradecimentos



Obrigado.

Rafael Marinho e Silva
rafaelmarinho@unipam.edu.br