

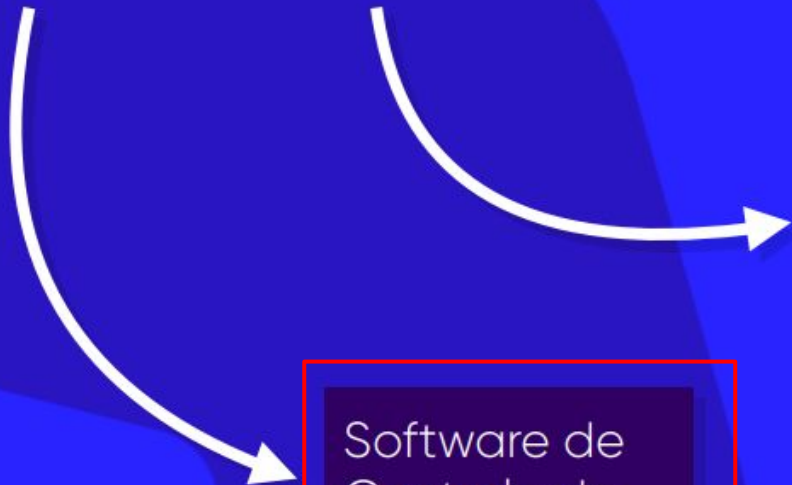
# GIT E GITHUB

PROFESSOR LUCAS JOSE DE SOUZA

# **Git e GitHub**

**Para que  
serve isso?**

# Git ≠ GitHub



Plataforma de  
Rede Social para  
Programadores

Software de  
Controle de  
Versão

# SISTEMA DE CONTROLE DE VERSÃO

Existem ferramentas que funcionam como máquinas do tempo e robôs de integração para o seu código. Elas nos permitem acompanhar as alterações desde as versões mais antigas. Também é possível detectar e mesclar alterações nos mesmos arquivos, além de identificar conflitos, tudo de maneira automática.

**Git** ≠ GitHub

**Versionamento**

Git

muitas  
**versões**  
de uma  
mesma  
coisa

# Um exemplo



index.html



site-cliente

# Um exemplo



site-cliente



# Um exemplo



site-cliente



site-cliente.zip



site-cliente-v2.zip



site-cliente-deu-bosta.zip



site-cliente-resolvido.zip

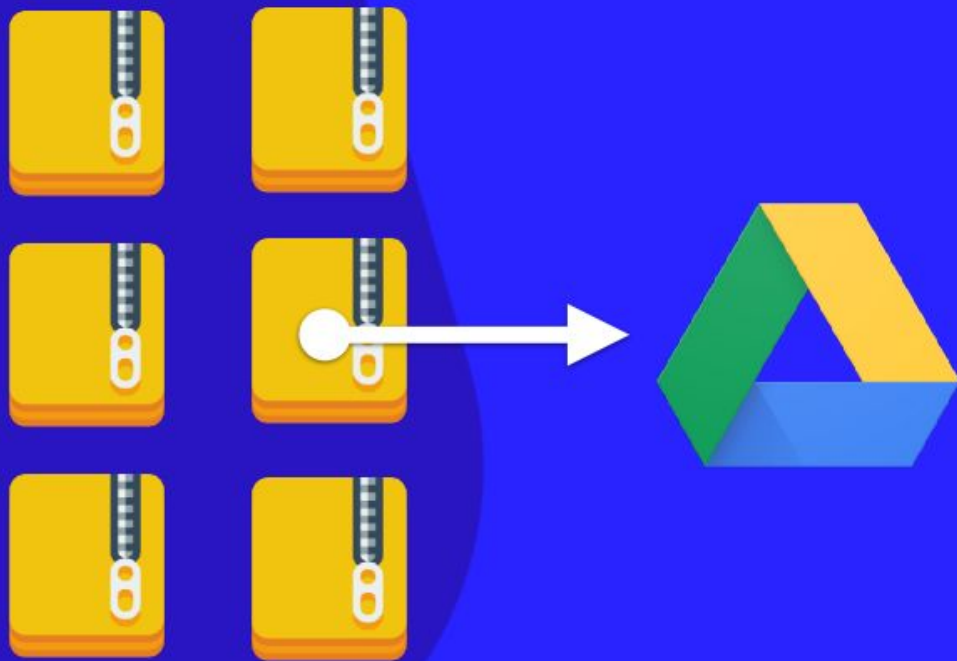


site-cliente-agora-vai.zip

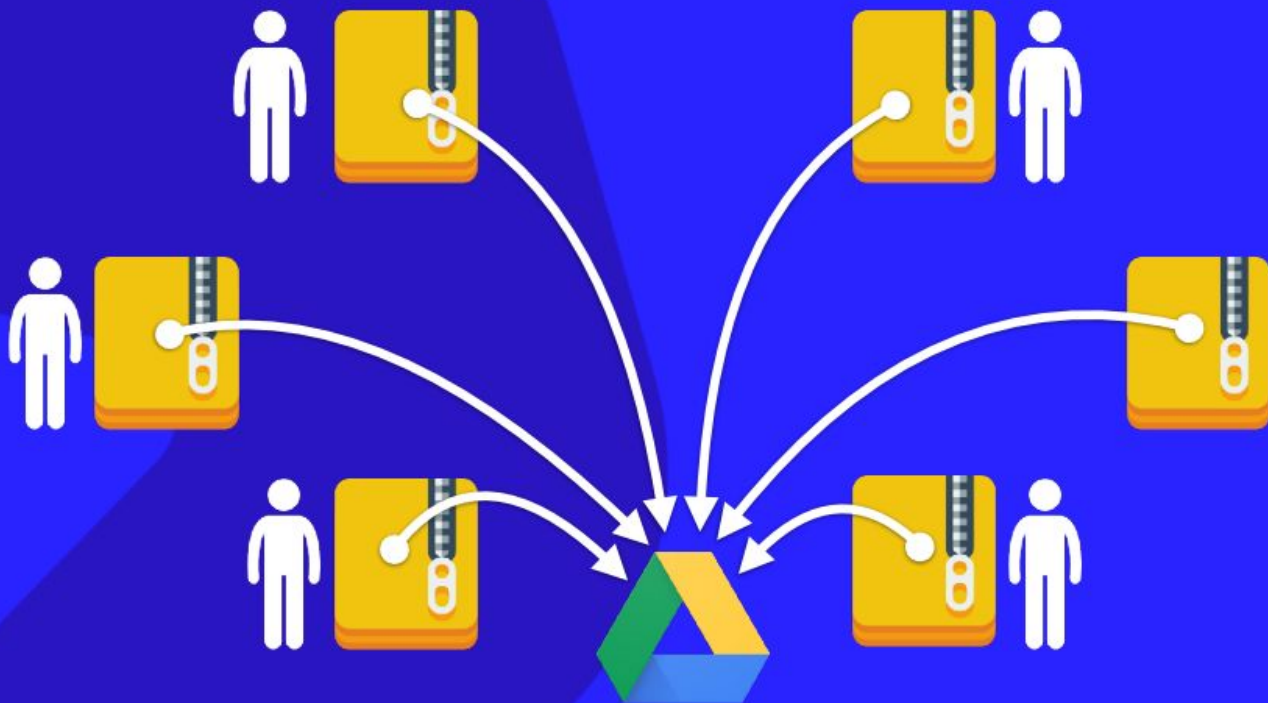


site-cliente-mudou-tudo.zip

# Um exemplo



## Um exemplo



# Versionamento

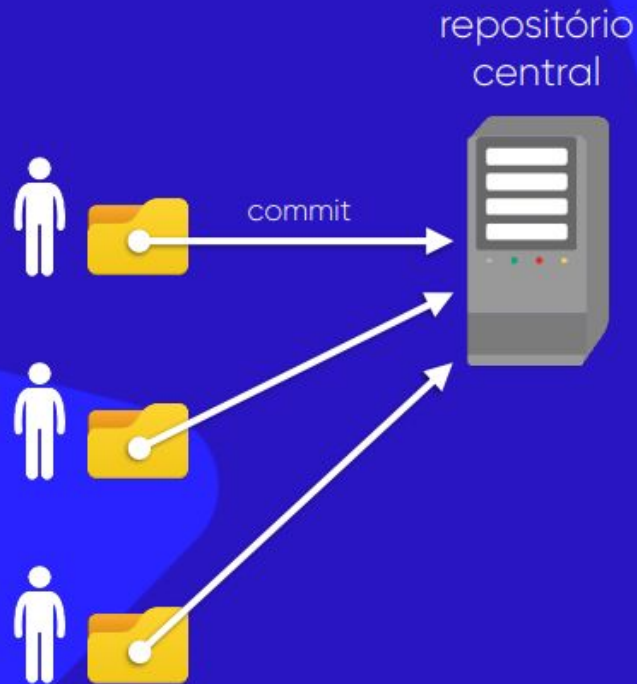


git

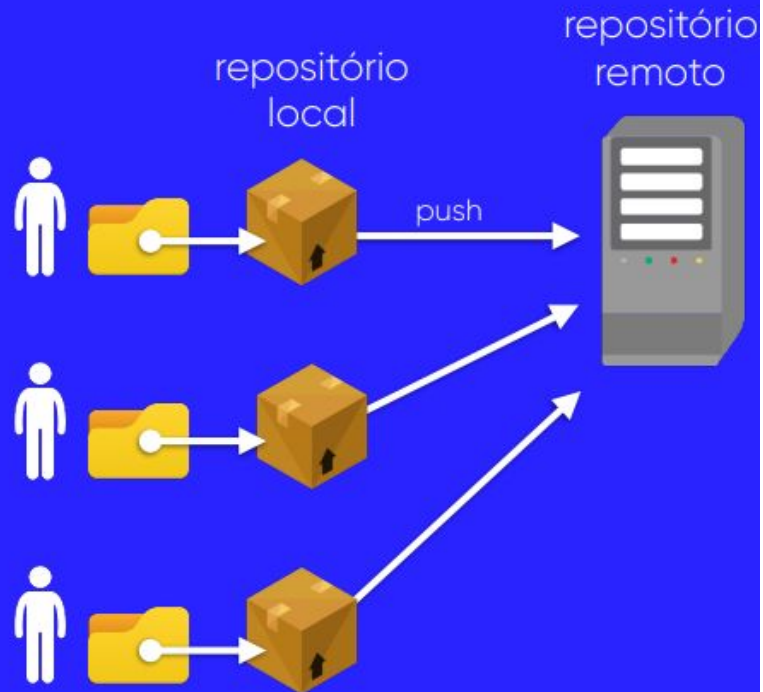
# **Versionamento**

1972

# Versionamento (VCS)



**centralizado/linear**



**distribuído**

# Versionamento (VCS)

- ▶ CA Software Change Manager (**CCC**)
- ▶ Source Code Control System (**SCCS**)
- ▶ **Panvalet**
- ▶ Concurrent Version System (**CVS**)
- ▶ Apache Subversion (**SVN**)
- ▶ **ClearCase**
- ▶ **Visual SourceSafe**
- ▶ **Perforce**

**centralizado/linear**

- ▶ **Mercurial**
- ▶ **Bazaar**
- ▶ **Code Co-op**
- ▶ **GNU arch**
- ▶ **Monotone**
- ▶ **Fossil**
- ▶ **BitKeeper**
- ▶ **Git**

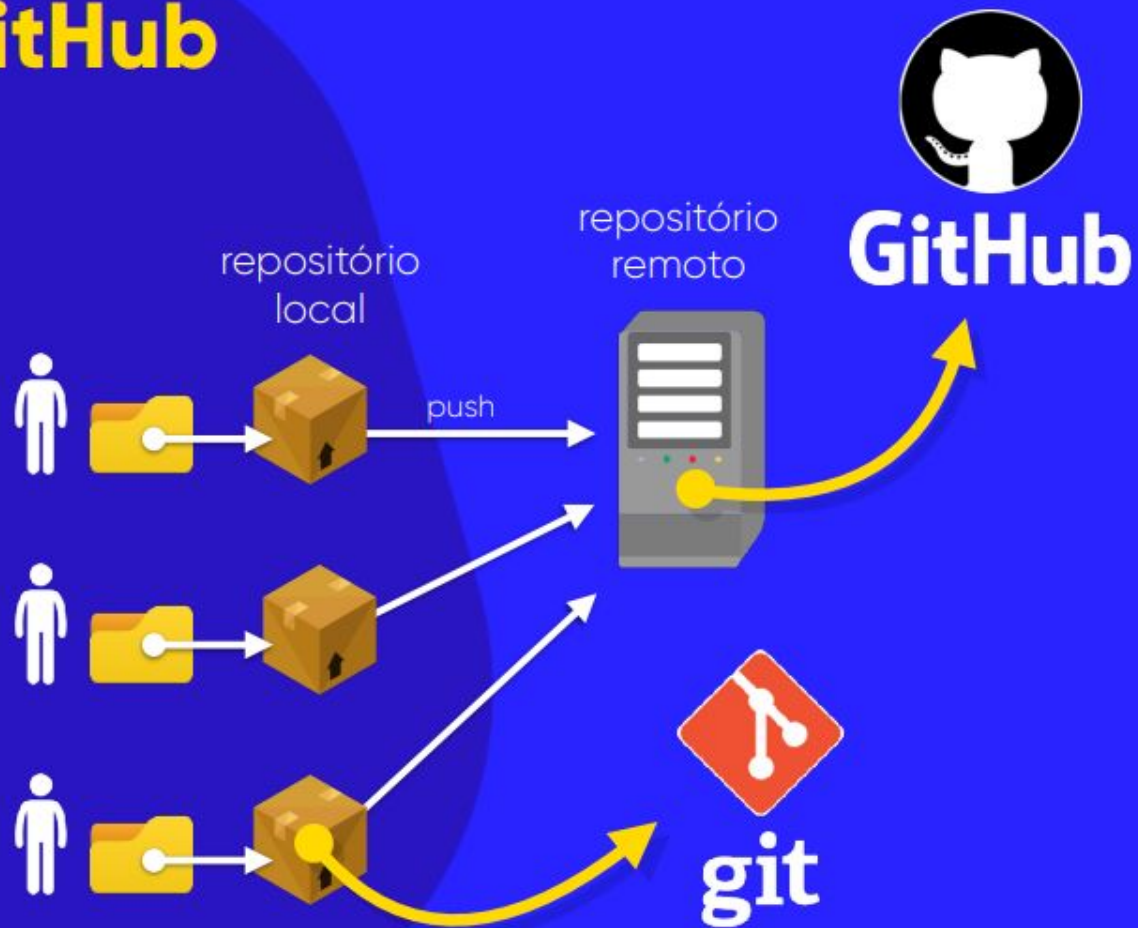
**distribuído**

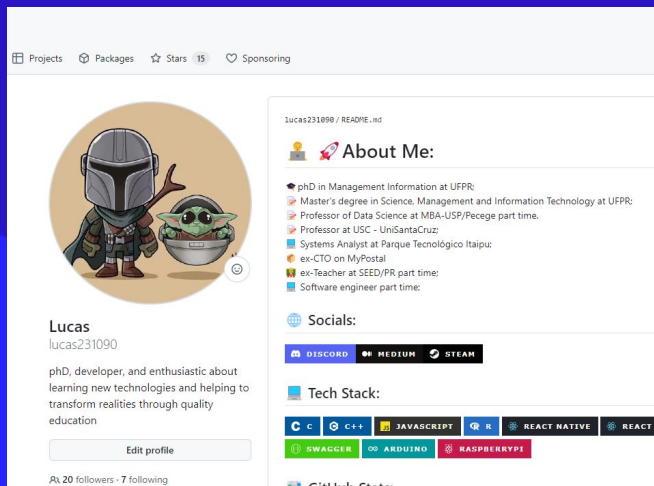
# Principais vantagens

- ▶ Controle de histórico
- ▶ Trabalho em equipe
- ▶ Ramificação do projeto
- ▶ Segurança
- ▶ Organização



# Git ≠ GitHub





# GitHub

- ▶ Repositórios ilimitados
- ▶ Hospedagem de código-fonte
- ▶ Características de rede social
- ▶ GitHub Pages integrado
- ▶ Colaboração
- ▶ Forks

# Só existe o GitHub?



GitHub



GitLab



Bitbucket



PHABRICATOR



Gogs



kallithea

# PERSPECTIVA HISTÓRICA



# GIT -

Foi criado em 2005 por Linus Torvalds, o mesmo criador do Linux, que estava descontente com o BitKeeper, o sistema de controle de versão utilizado no desenvolvimento do kernel do Linux.

# GIT -

O Git é um sistema de controle de versão que, pela sua estrutura interna, é uma máquina do tempo.

Git é usado principalmente no desenvolvimento de software, mas pode ser usado para registrar o histórico de edições de qualquer tipo de arquivo (Exemplo: alguns livros digitais são disponibilizados no GitHub e escrito aos poucos publicamente).

# Git Workflow

TIME →

Main

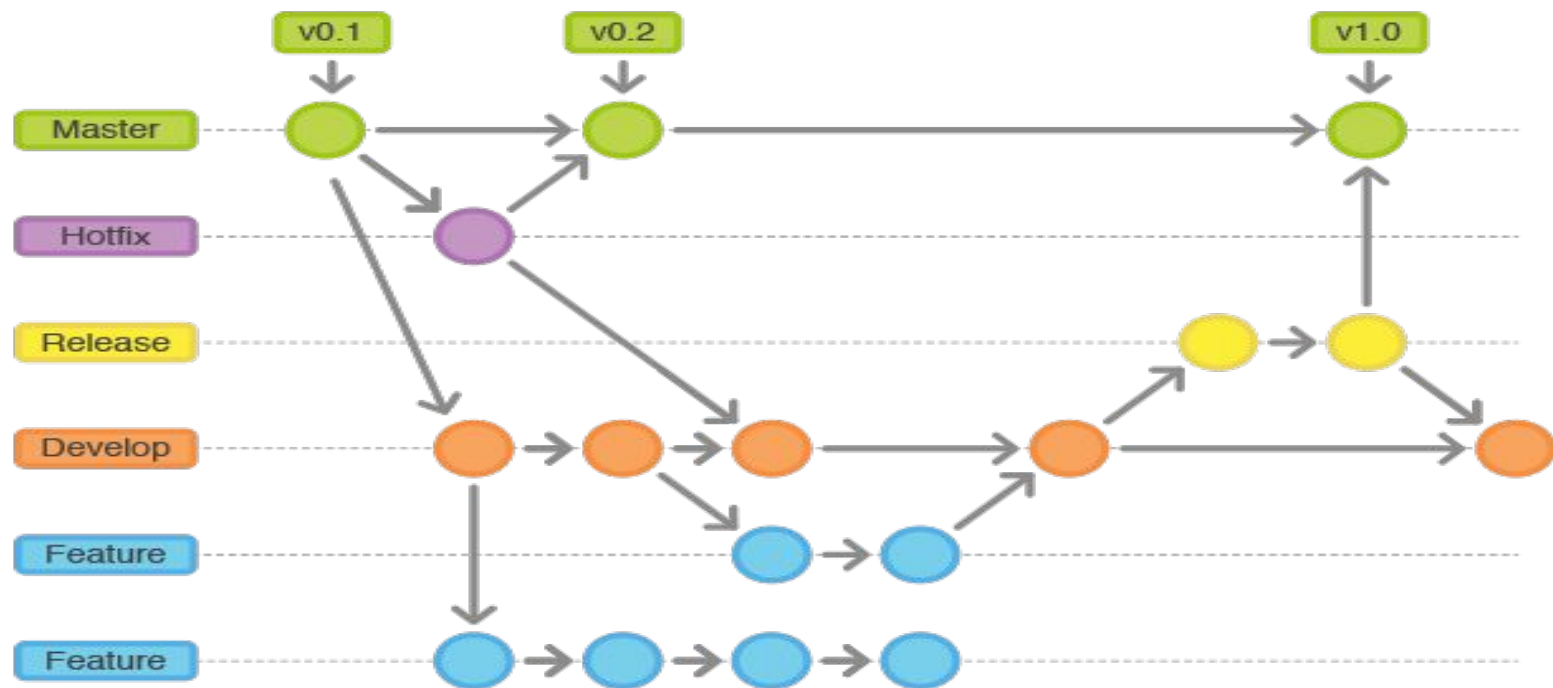
Hotfix

Release

Develop







# Hospedando código no GitHub

Em 2008, foi criado o GitHub, uma aplicação Web que possibilita a hospedagem de repositórios Git, além de servir como uma “rede social” para programadores.

# Hospedando código no GitHub

Diversos projetos de código aberto importantes são hospedados no GitHub como jQuery, Node.js, Ruby On Rails, Jenkins, Spring, JUnit e muitos outros.

FileEditViewRepositoryBranchHelp

Current repository  
desktop

Current branch  
esc-pr  
#3972

Fetch origin  
Last fetched 2 minutes ago

ChangesHistory

Appease linter  
iAmWillShepherd committed a day ago

Add event handler to dropdown compon...  
iAmWillShepherd and Markus Olsson co...

Move escape behavior to correct compo...  
iAmWillShepherd and Markus Olsson co...

Remove event handler from the branches..  
iAmWillShepherd and Markus Olsson co...

Merge branch 'master' into esc-pr  
iAmWillShepherd committed a day ago

Merge pull request #4044 from desktop/...  
Neha Batra committed a day ago

Merge pull request #4070 from desktop/...  
Brendan Forster committed 2 days ago

bump to beta3  
Brendan Forster committed 2 days ago

Merge pull request #4057 from desktop/...  
Brendan Forster committed 2 days ago

Merge pull request #4067 from desktop/...  
Brendan Forster committed 2 days ago

Release to 1.1.0-beta2  
Neha Batra committed 2 days ago

Add event handler to dropdown component

iAmWillShepherd and Markus Olsson committed c79e71c 1 changed file

Co-Authored-By: Markus Olsson <niiik@users.noreply.github.com>

app\src\ui\toolbar\dropdown.tsx

145	145	<code>this.state = { clientRect: null }</code>
146	146	<code>}</code>
147	147	
	148	<code>+ private get isOpen() {</code>
	149	<code>+ return this.props.dropdownState === 'open'</code>
	150	<code>+ }</code>
	151	<code>+ </code>
148	152	<code>private dropdownIcon(state: DropdownState): Octic</code>
	153	<code>onSymbol {</code>
149		<code>// @TODO: Remake triangle octicon in a 12px ver</code>
		<code>sion,</code>
150	154	<code>// right now it's scaled badly on normal dpi mo</code>
		<code>nitors.</code>
		<code>@@ -249,6 +253,13 @@ export class ToolbarDropdown ex</code>
		<code>tends React.Component&lt;</code>
249	253	<code>}</code>
250	254	<code>}</code>
251	255	
	256	<code>+ private onFoldoutKeyDown = (event: React.Keyboard</code>
		<code>Event&lt;HTMLElement&gt;) =&gt; {</code>
	257	<code>+ if (!event.defaultPrevented &amp;&amp; this.isOpen &amp;&amp; e</code>
		<code>vent.key === 'Escape') {</code>
	258	<code>+ event.preventDefault()</code>



trunk▼

9 uncommitted changes



Filter repositories

GitHub

IMC

MeTal

PyTricks

Other

git

Tutorial

Update from metal-origin/authors

View branch

Sync

metal-origin/authors ▼

trunk

9 changes

MeTal\core\cms\\_init\_.py

.gitignore

.settings\gitignore

MeTal\gitignore

MeTal\core\auth.py

MeTal\core\cms\\_init\_.py

MeTal\core\error.py

MeTal\core\template.py

MeTal\core\ui\\_init\_.py

MeTal\core\utils.py

Summary

Description

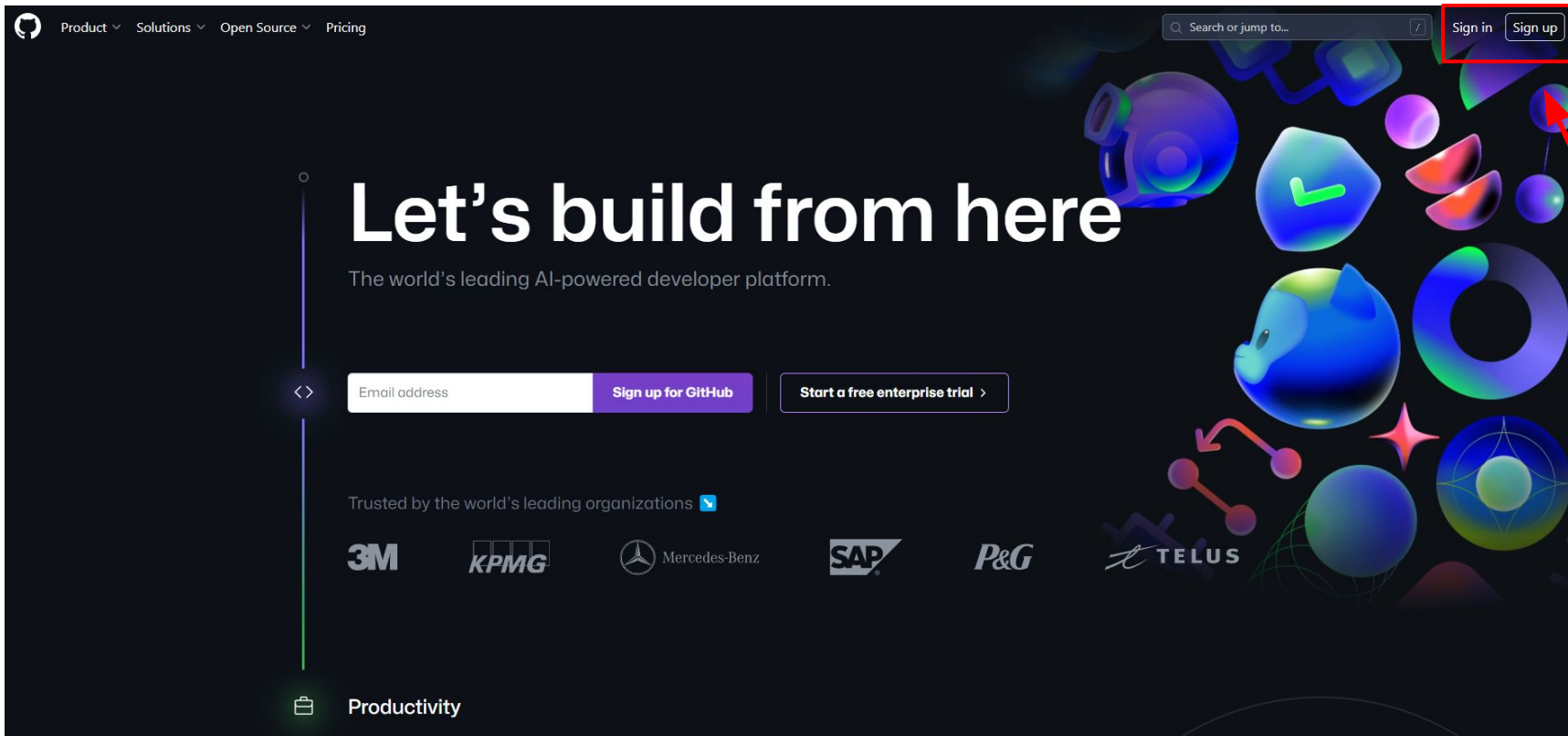


Commit to trunk

```
...  ...  @@ -4,7 +4,7 @@ from core.utils import (create_basename, Status, tpl, tpl_online, generate_date
4 4  from core.error import (ArchiveMappingFormatException, PageNotChanged, EmptyQueueError,
5 5  QueueInProgressException, PageTemplateError)
6 6  from core.log import logger
7 7  -
8 8  + from core.auth import publishing_lock
9 9  from core.libs.bottle import request
10 10 from core.libs.peewee import DeleteQuery
11 11 import json
12 12 @@ -98,8 +98,13 @@ def push_to_queue(**ka):
13 13     queue_job.priority = ka.get('priority', 9)
14 14     queue_job.is_control = ka.get('is_control', False)
15 15
16 16 - queue_job.data_string = (queue_job.job_type + ": " +
17 17 -     FileInfo.get(FileInfo.id == queue_job.data_integer).file_path)
18 18 + if queue_job.is_control:
19 19 +     queue_job.data_string = (queue_job.job_type + ": Blog {}".format(
20 20 +         queue_job.blog.for_log))
21 21 + else:
22 22 +     queue_job.data_string = (queue_job.job_type + ": " +
23 23 +         FileInfo.get(FileInfo.id == queue_job.data_integer).file_path)
24 24
25 25 queue_job.date_touched = datetime.datetime.now()
26 26 queue_job.save()
27 27 @@ -865,15 +870,10 @@ def process_queue(blog):
28 28     ...
29 29     with db.atomic():
30 30
31 31     try:
32 32         queue_control = Queue.get(Queue.blog == blog,
33 33         Queue.is_control == True)
34 34     except BaseException:
35 35         raise EmptyQueueError('No control jobs found for this blog.')
36 36
37 37 + queue_control = publishing_lock(blog, True)
```

# CRIANDO NOSSA CONTA NO GITHUB





<https://github.com/>



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

Welcome to GitHub!  
Let's begin the adventure

Enter your email\*



Continue

LEMBREM DE USAR O SEU MELHOR E-MAIL



**Lucas**

lucas231090

phD, developer, and enthusiastic about learning new technologies and helping to transform realities through quality education

[Edit profile](#)

17 followers · 6 following

[Curitiba-PR](#)

Achievements

lucas231090 / README.md

## About Me:

- phD in Management Information at UFPR;
- Master's degree in Science, Management and Information Technology at UFPR;
- Professor of Data Science at MBA-USP/Pecege part time.
- Professor at USC - UniSantaCruz;
- Systems Analyst at Parque Tecnológico Itaipu;
- ex-CTO on MyPostal
- ex-Teacher at SEED/PR part time;
- Software engineer part time;

## Socials:

[DISCORD](#) [MEDIUM](#) [STEAM](#)

## Tech Stack:

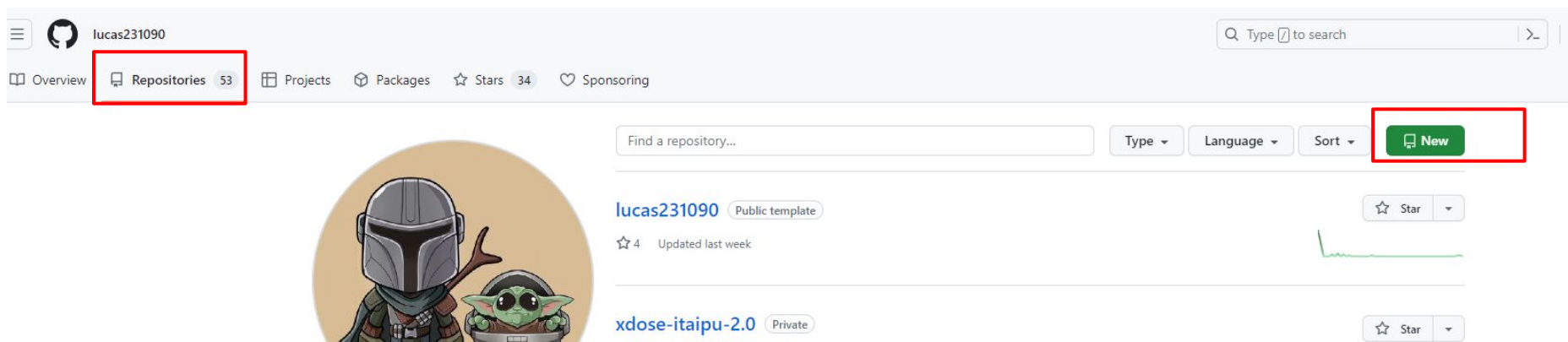
[C](#) [C++](#) [JAVASCRIPT](#) [R](#) [REACT NATIVE](#) [REACT](#) [NODE.JS](#) [MONGODB](#)  
[SWAGGER](#) [ARDUINO](#) [RASPBERRYPI](#)

## GitHub Stats:

Something went wrong!

Could not fetch total commits.

# TUTORIAL DE CRIAÇÃO DE REPOSITÓRIO MANUAL



The screenshot displays the GitHub profile of user **lucas231090**. The navigation bar at the top includes links for Overview, **Repositories** (highlighted with a red box and showing 53 items), Projects, Packages, Stars (34), and Sponsoring. A search bar is located on the right. Below the navigation bar, the user's profile picture (a cartoon of Mandalorian and Yoda) is shown. To the right of the profile picture is a search bar labeled "Find a repository..." and filters for Type, Language, and Sort. A green **New** button (highlighted with a red box) is positioned to the right of the filters. Below these elements, two repositories are listed: **lucas231090** (Public template, 4 stars, updated last week) and **xdose-itaipu-2.0** (Private). A line graph showing repository activity is visible on the right side of the repository list.

## 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 (\*).*

### Repository template

No template ▾

Start your repository with a template repository's contents.

Owner \*



lucas231090 ▾

Repository name \*

/

Great repository names are short and memorable. Need inspiration? How about [super-duper-invention](#) ?

Description (optional)



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.](#)

Create repository



### 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

RECOMENDADO PARA A DISCIPLINA

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

Set up in Desktop or HTTPS SSH git@github.com:lucas231090/repoUSC.git

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 "# repoUSC" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:lucas231090/repoUSC.git
git push -u origin main
```

NORMALMENTE UTILIZADO

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

```
git remote add origin git@github.com:lucas231090/repoUSC.git
git branch -M main
git push -u origin main
```

### ...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.



Drag files here to add them to your repository

Or [choose your files](#)



### Commit changes

Add files via upload

Add an optional extended description...

Commit changes

Cancel

repoUSC /

in `main`

Cancel changes

Commit changes...

Edit

Preview

 Code 55% faster with GitHub Copilot

Spaces ▾

2 ▾

No wrap ▾

1 Enter file contents here

Commit changes



Commit message

Create aula01.java

Extended description

Add an optional extended description..

Cancel

Commit changes

main

repoUSC /

Go to file

Add file

lucas231090

Create aula01.java

b6e492e · now

History

Name	Last commit message	Last commit date
aula01.java	Create aula01.java	now

t

Add file

+ Create new file

Upload files

Octotree

aula01.java

aula02.js

trabalho01

Create aula01.java

Create aula02.js

Entrega trabalho 1 bim



**OBRIGADO!**