

Apresentação da Disciplina

Prof. Pedro. Pongelupe



PONTIFÍCIA UNIVERSIDADE CATÓLICA DE MINAS GERAIS
Departamento de Ciência da Computação

Sumário

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- 2 Programação Modular
- 3 Nivelamento



Apresentação Pessoal

Mais sobre mim

- Prof. Pedro Pongelupe
 - pedro.pongelupe@sga.pucminas.br
- Engenheiro de Software Sênior
- Bacharel em Engenharia de Software (PUC-MG)
- Mestre em Ciências da Computação (PUC-MG)

Áreas de Pesquisa

- Mobilidade Humana
- Bicicletas e Ônibus
- Redes Complexas e Deep Learning for Graphs



Em resumo...

The screenshot shows the GitHub profile of Pedro Pongelupe. The profile includes a circular avatar with a cartoon overlay, the name 'Pedro Pongelupe', and the handle 'Pongelupe · he/him'. A bio describes him as a programmer, coffee lover, and old-fashioned clothes style enthusiast, with a note that software and society must be exploitation free. The page lists several pinned repositories: 'mobility-studies', 'bike-it', 'WBMA-19', 'layerBase', 'PondionsTracker', and 'PondionsTracker-BH'. A contribution graph shows 107 contributions in the last year, with a calendar view for 2023 and 2024. The page also shows 65 followers and 120 following.

← → ↺ 🔒 https://github.com/Pongelupe

🔍 Type [] to search

📄 Overview 📁 Repositories 57 📁 Projects 📦 Packages ⭐ Stars 666

Pinned [Customize your pins](#)

- mobility-studies** (Public) ⌨️
This repository hosts the scripts and infrastructure used on my mobility studies.
🔗 Java ⭐ 5
- bike-it** (Public) ⌨️
this repo is kind of a Proof of Concept about biking routes in my home city Belo Horizonte <3
🔗 Java ⭐ 2
- WBMA-19** (Public) ⌨️
PucMinas' source code for 2019 WBMA.
🔗 Java ⭐ 1
- layerBase** (Public) ⌨️
Forked from [melocho/mappshaper](#)
Tools for editing Shapelite, GeoJSON, TopoJSON and CSV files
🔗 JavaScript
- PondionsTracker** (Public) ⌨️
🔗 Java ⭐ 2
- PondionsTracker-BH** (Public) ⌨️
🔗 Java ⭐ 2

107 contributions in the last year [Contribution settings](#) **2024**

	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
Mon												
Tue												
Wed												
Thu												
Fri												
Sat												
Sun												

Learn how we count contributions

Less 🔴 🟢 🟡 🟠 More

2023 2022 2021 2020

Pedro Pongelupe
Pongelupe · he/him

programmer, coffee lover and old-fashioned clothes style. Software and society must be exploitation free 🇧🇷

[Edit profile](#)

👤 65 followers · 120 following

📁 Avenue Code
📍 Belo Horizonte, Brazil
✉ pongelupe1998@gmail.com

Eterno Retorno do Programador



programador júnior



programador sênior



Programação Modular

Como vai funcionar

- Disciplina de 80 h/a - 2 aulas semanais.
 - Segunda-feira 19:00-20:40
 - Quarta-feira 19:00-20:40
 - Quarta-feira 20:50-22:30*
- Debate teórico e aplicação prática.
- Conteúdos principais:
 - Programação Orientada a Objetos utilizando Java
 - Padrões de projeto
 - Ecossistema Java



Processo Avaliativo

Distribuição de Pontos

- Provas: 75 pontos.
 - 3 x 25 pontos.*
- Exercícios e trabalhos: 20 pontos
 - Exercícios e trabalhos teóricos e práticos: 15 pontos
 - Prática investigativa: 5 pontos
- Avaliação de Desempenho Acadêmico (ADA): 5 pontos

Exercícios não pontuados

- Prática de modelagem
- Notação e Trechos de Código



Processo Avaliativo

Reavaliação

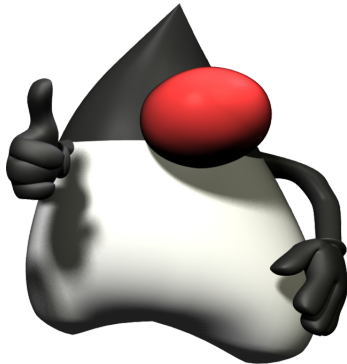
Prova Escrita que substitui a menor nota das provas anteriores, ou seja, vale **25 pontos**.

Últimas Considerações

- Chamada e limite de faltas
- SGA: Estas e outras informações estão disponíveis no Plano de Ensino da Disciplina que pode ser acessado no SGA.

Apresentação

E vocês? Quem são vocês? O quê esperam desta disciplina?
E o Java, hein??






Instalando o Java

O quê devo instalar?

- Versão LTS - Java 17 ou Java 21

Produtos Setores Recursos Clientes Parceiros Desenvolvedores Empresa

Java downloads Tools and resources Java archive

JDK 21 **JDK 17** GraalVM for JDK 21 GraalVM for JDK 17

JDK Development Kit 17.0.10 downloads

JDK 17 binaries are free to use in production and free to redistribute, at no cost, under the [Oracle No-Fee Terms and Conditions \(NFTC\)](#).

JDK 17 will receive updates under the NFTC, until September 2024. Subsequent JDK 17 updates will be licensed under the [Java SE OTN License](#) (OTN) and production use beyond the [limited free grants](#) of the OTN license will [require a fee](#).

Linux macOS Windows

Product/file description	File size	Download
ARM64 Compressed Archive	172.65 MB	https://download.oracle.com/java/17/latest/jdk-17_linux-aarch64_bin.tar.gz (sha256)
ARM64 RPM Package	172.40 MB	https://download.oracle.com/java/17/latest/jdk-17_linux-aarch64_bin.rpm (sha256) (OL 8 GPG Key)
x64 Compressed Archive	174.03 MB	https://download.oracle.com/java/17/latest/jdk-17_linux-x64_bin.tar.gz (sha256)
x64 Debian Package	149.43 MB	https://download.oracle.com/java/17/latest/jdk-17_linux-x64_bin.deb (sha256)
x64 RPM Package	173.77 MB	https://download.oracle.com/java/17/latest/jdk-17_linux-x64_bin.rpm (sha256) (OL 8 GPG Key)

Instalando a IDE - Eclipse

O quê devo instalar?

● Eclipse IDE

The screenshot shows the Eclipse Foundation website. At the top, there's a navigation bar with links for Projects, Working Groups, Members, and a search icon. Below the navigation bar, the main content area is titled "Eclipse IDE 2023-12 / R". The page features a large blue banner with the text "Try the Eclipse Installer 2023-12 R" and "The easiest way to install and update your Eclipse Development Environment." It also includes download statistics: "1,084,022 Installer Downloads" and "1,112,187 Package Downloads and Updates". To the right of the banner, there's a "Download" section with links for macOS x86_64 | AArch64, Windows x86_64, and Linux x86_64 | AArch64. Below the banner, the page is titled "Eclipse IDE 2023-12 R Packages". At the bottom, there's a section for "Eclipse IDE for Java Developers" with a download icon and the text "The essential tools for any Java developer, including a Java IDE, a Git client, and more." On the right side of the page, there's a sponsored ad for IBM Cloud with the text "Develop in the cloud using Eclipse Orion and deploy to IBM Cloud using Continuous Delivery." and a button to "Learn more". Below the ad, there's a section for "Install your favorite desktop IDE" with a circular logo and the text "Install your favorite desktop IDE".

ECLIPSE FOUNDATION

Projects Working Groups Members More ▾

Home / Downloads / Packages / Release / Eclipse IDE 2023-12 / R

Eclipse Installer Eclipse Packages Eclipse Developer Builds ▾

The Eclipse Installer 2023-12 R now includes a JRE for macOS, Windows and Linux.

Try the Eclipse **Installer** 2023-12 R

The easiest way to install and update your Eclipse Development Environment.

Find out more

📄 1,084,022 Installer Downloads

📦 1,112,187 Package Downloads and Updates

Download

macOS x86_64 | AArch64

Windows x86_64

Linux x86_64 | AArch64

Sponsored Ad

IBM Cloud

Develop in the cloud using Eclipse Orion and deploy to IBM Cloud using Continuous Delivery.

Learn more

Advertise Here

Eclipse IDE 2023-12 R Packages

Eclipse IDE for Java Developers

318 MB 610,056 DOWNLOADS

The essential tools for any Java developer, including a Java IDE, a Git client, and more.

Windows x86_64

macOS x86_64 | AArch64

Linux x86_64 | AArch64

Install your favorite desktop IDE



Como deve parecer: Eclipse e Javadoc

```
Function.class X
20 * Copyright (c) 2010, 2013, Oracle and/or its affiliates. All rights reserved.
25 package java.util.function;
26
27 import java.util.Objects;
28
29 /**
30  * Represents a function that accepts one argument and produces a result.
31  *
32  * <p>This is a <a href="package-summary.html">functional interface</a>
33  * whose functional method is {@link #apply(Object)}.
34  *
35  * @param <T> the type of the input to the function
36  * @param <R> the type of the result of the function
37  *
38  * @since 1.8
39  */
40 @FunctionalInterface
41 public interface Function<T, R> {
```