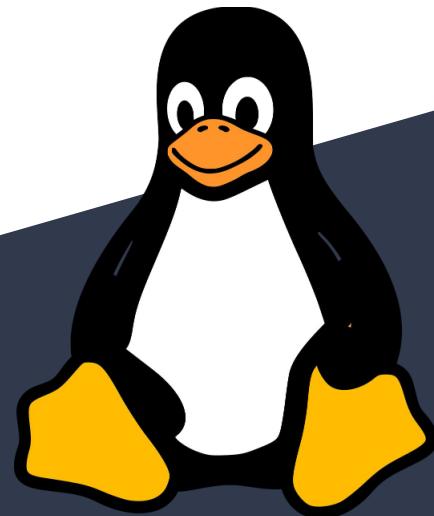


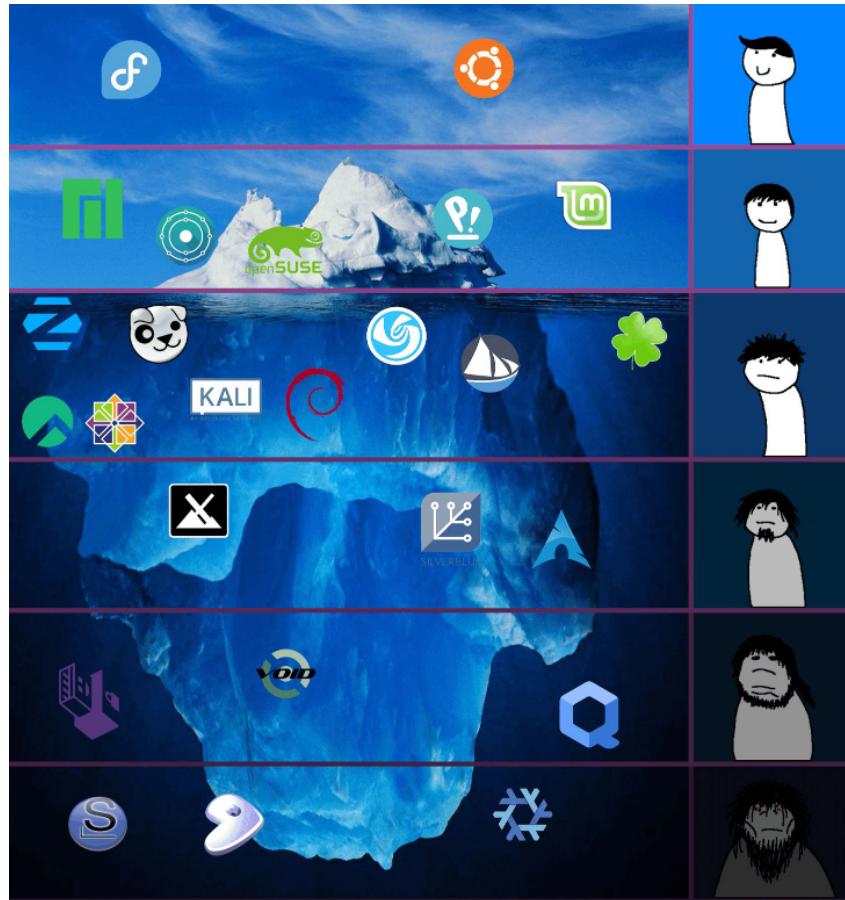
# Workshop de Linux

- História
- Comandos
- Redirecionamento de entradas
- Ferramentas úteis



# Distros:

## Breve história



# Comandos básicos

cd	“change directory”	Trocar a pasta atual	..
ls	“list”	Listar os conteúdos da pasta atual	-a -l
./<name>	-	Executar programa	-
diff	“difference”	Comparar arquivos	-q --color
sudo	“superuser do”	Executar como administrador	-

# Comandos de instalação

<code>apt-get install</code>	Instalar com apt
<code>apt-get purge</code>	Remover
<code>apt update</code>	Atualiza fontes
<code>apt upgrade</code>	Atualiza pacotes instalados

<code>snap install</code>	Instalar com snap
<code>snap remove</code>	Remover

# Comandos de compilação

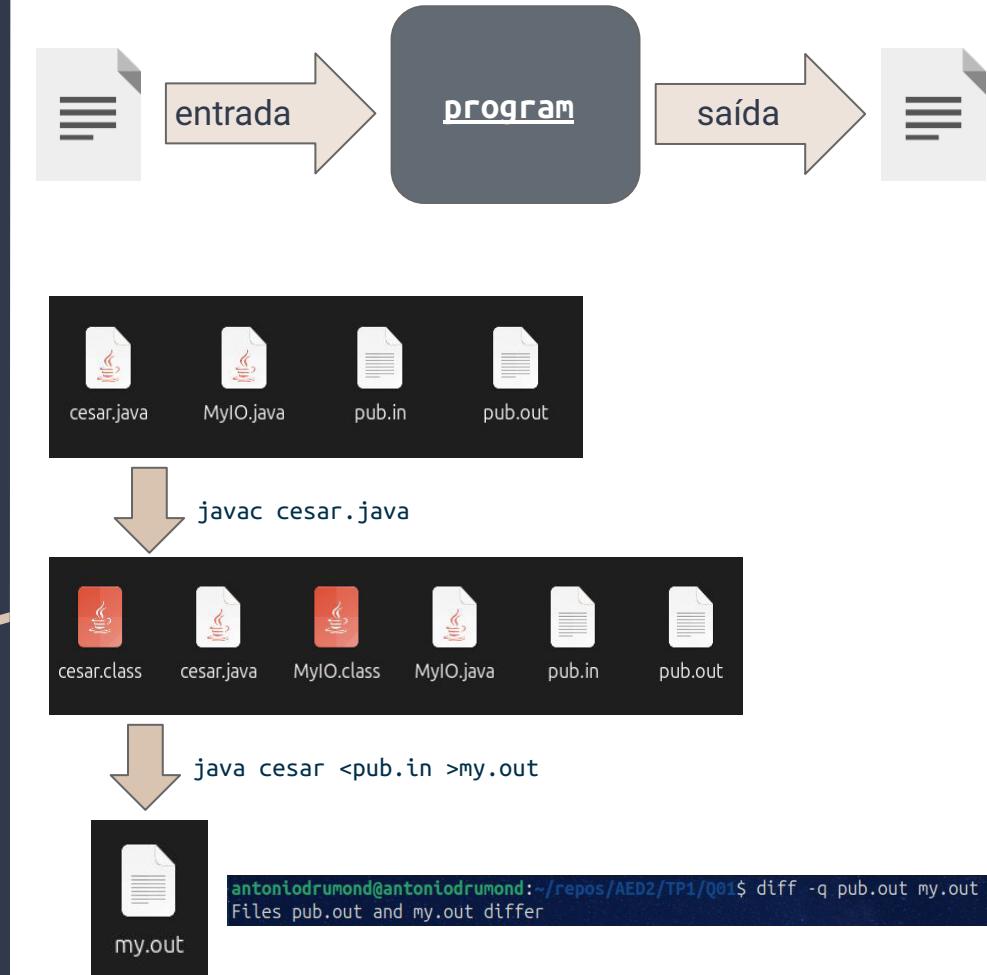
<code>gcc -o &lt;output&gt; &lt;source&gt;.c</code>	Compilar programas em C
<code>g++ -o &lt;output&gt; &lt;source&gt;.cpp</code>	Compilar programas em C++
<code>./&lt;name&gt;</code>	Executar programas de C ou C++
<code>javac &lt;source&gt;.java</code>	Compilar programas em Java
<code>java &lt;MainClass&gt;</code>	Executar programas em Java



# Redirecionamento de entradas e saídas

`./program <entrada >saída`

`java program <entrada >saída`



# CLIs (Ferramentas de linha de comando)



# neofetch

antoniodrumond@antoniodrumond  
OS: Ubuntu 24.04.1 LTS x86\_64  
Host: 93QDB P15AKH  
Kernel: 6.8.0-45-generic  
Uptime: 1 hour, 38 mins  
Packages: 1789 (dpkg), 23 (snap)  
Shell: bash 5.2.21  
Resolution: 1920x1080  
DE: GNOME 46.0  
WM: Mutter  
WM Theme: Adwaiata  
Theme: Yaru-blue-dark [GTK3]  
Icons: Yaru-blue-dark [GTK3]  
Terminal: gnome-terminal  
CPU: 11th Gen Intel i7-1165G7 (8) @ 2.3GHz  
GPU: Intel TigerLake-LP GT2 [Iris Xe Graphics]  
Memory: 6034MiB / 15667MiB



vim



```
7 Press F for help
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9 (up a dir)
10 https://antoniodrumond.com/engineering-portal/
11 content/
12 .gitattributes
13 .gitignore
14 .gitmodules
15 .mypy.ini
16 .pre-commit-config.yaml
17 .readme.md
18 .stylelintignore
19 .stylelintrc.json
20 .travis.yml
21 .vscode/settings.json
22 .vscode/launch.json
23 .vscode/package.json
24 .vscode/README.md
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26 #CONTRIBUTING.md
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28 # README.md
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30 # .gitignore
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1722 # .gitmodules
1723
1724 # .gitignore
1725
1726 # .travis.yml
1727
1728 # .vscode/settings.json
1729
1730 # .vscode/launch
```

my.out -

1/652 Top

pub.out -

1/652 Top

# jade



```
Linha: 630  
I roamed under it, a tired nude maori.  
I roamed under et, a tered nude maore.
```

```
Linha: 633  
Mad as Sadam. (Cassiano Leonelli e Estêvão Queiroga)  
Mad as Sadam. (Cassianu Leunelli e Estêvou Queiruga)
```

```
Linha: 639  
Sums are not set as a test on Erasmus.  
Sums are nog seg as a gesg on Erasmus.
```

```
Resultado estimado: 71%  
Erros encontrados em 184 linhas de 653
```

**Tutorial:**

`jade`

**Dois parâmetros:**

`jade <arquivo1> <arquivo2>`

- Os arquivos "arquivo1" e "arquivo2" serão comparados

**Três parâmetros:**

`jade <codigo> <arquivo1> <arquivo2>`

- O arquivo "codigo" sera compilado (Java ou C), e executado utilizando o arquivo "arquivo1" como entrada e gerando um arquivo de saída "my.out"
- Os arquivos "my.out" e "arquivo2" serão comparados



<https://github.com/AntonioDrumond/Jade>

```
antoniodrumond@antoniodrumond:~/repos/AED2/TP1/Q11$ jade paRec.c pub.in pub.out  
Resultado estimado: 100%  
Erros encontrados em 0 linhas de 653
```

# valgrind



```
antoniodrumond@antoniodrumond:~/repos/AED2/TP1/Q11$ valgrind ./s <pub.in
==16967== Memcheck, a memory error detector
==16967== Copyright (C) 2002-2022, and GNU GPL'd, by Julian Seward et al.
==16967== Using Valgrind-3.22.0 and LibVEX; rerun with -h for copyright info
==16967== Command: ./s
==16967==
```

```
HEAP SUMMARY:
  in use at exit: 653,653 bytes in 653 blocks
  total heap usage: 655 allocs, 2 frees, 658,773 bytes allocated
```

```
LEAK SUMMARY:
  definitely lost: 653,653 bytes in 653 blocks
  indirectly lost: 0 bytes in 0 blocks
    possibly lost: 0 bytes in 0 blocks
    still reachable: 0 bytes in 0 blocks
    suppressed: 0 bytes in 0 blocks
Rerun with --leak-check=full to see details of leaked memory
```

```
For lists of detected and suppressed errors, rerun with: -s
ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

```
HEAP SUMMARY:
  in use at exit: 0 bytes in 0 blocks
  total heap usage: 655 allocs, 655 frees, 658,773 bytes allocated
```

```
All heap blocks were freed -- no leaks are possible
```

```
For lists of detected and suppressed errors, rerun with: -s
ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)
```

# fzf



```
lab/lab1/cIt.c
lab/lab2/c/s
lab/lab1/s
lab/lab4/p
lab/lab1/entradaSaida/LAB01Q01 - Aquecimento Interativo/LAB01Q01Aquecimento..
lab/lab1/entradaSaida/LAB01Q03 - Aquecimento Interativo em C/pub.out
lab/lab1/entradaSaida/LAB01Q03 - Aquecimento Interativo em C/pub.in
lab/lab1/entradaSaida/LAB01Q04 - Aquecimento Recursivo em C/pub.out
lab/lab1/entradaSaida/LAB01Q04 - Aquecimento Recursivo em C/pub.in
lab/lab1/entradaSaida/LAB01Q01 - Aquecimento Interativo/pub.out
lab/lab1/entradaSaida/LAB01Q02 - Aquecimento Recursivo/pub.out
lab/lab1/entradaSaida/LAB01Q01 - Aquecimento Interativo/pub.in
lab/lab1/entradaSaida/LAB01Q02 - Aquecimento Recursivo/pub.in
TP1/Q08/arquivo.class
TP1/Q14/algBoolReco.class
TP1/Q14/algBoolReco.java
TP1/Q05/algBool.class
TP1/Q04/altRand.class
TP1/Q14/algBool.java
TP1/Q05/algBool.java
TP1/Q04/altRand.java
> TP1/Q13/altRand.c
61/134
> al
```

File: karma.conf.js

```
1 // Karma configuration file, see link for more in
2 // https://karma-runner.github.io/0.13/config/con
3
4 var browsers = ( !!process.env.ci ) ? ['ChromeHeadl
5
6 // get the current commit hash (short) to put in
7 var commitHash = require('child_process')
8 .execSync('git rev-parse HEAD')
9 .toString().trim().slice(0, 7);
10
11
12 module.exports = function (config) {
13 config.set({
14 basePath: '',
15 frameworks: ['jasmine', '@angular-devkit/buil
16 plugins: [
17 require('karma-jasmine'),
18 require('karma-chrome-launcher'),
19 require('karma-jasmine-html-reporter'),
20 require('karma-html-reporter'),
21 require('karma-mocha-reporter'),
22 require('karma-coverage-istanbul-reporter')
```