Insper

### Universo Linux

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# O que é um computador?

 Tente pensar do ponto de vista de um engenheiro!

### Década de 60

 Cada máquina era única



https://upload.wikimedia.org/wikipedia/commons/5/52/Pdp7-oslo-2005.jpeg

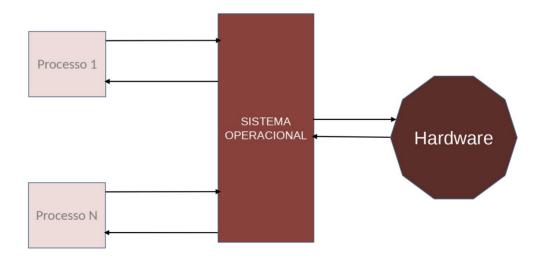
# Sistema Operacional

• O que é?

# Sistema Operacional

• O que é?

"Permitir que usuários executem diversos **programas** de maneira **simultânea** e **segura**."



### Unix

Assembly vs Linguagem C

```
MAN(1)

NAME

man - display the on-line manual pages (aka ``man pages'')

SYNOPSIS

man [-acw|-h] [-C file] [-M path] [-m path] [-S srch] [[-s] section] name

man [-k] [-C file] [-M path] [-m path] keyword ...

DESCRIPTION

The man utility displays the BSD man pages entitled name.

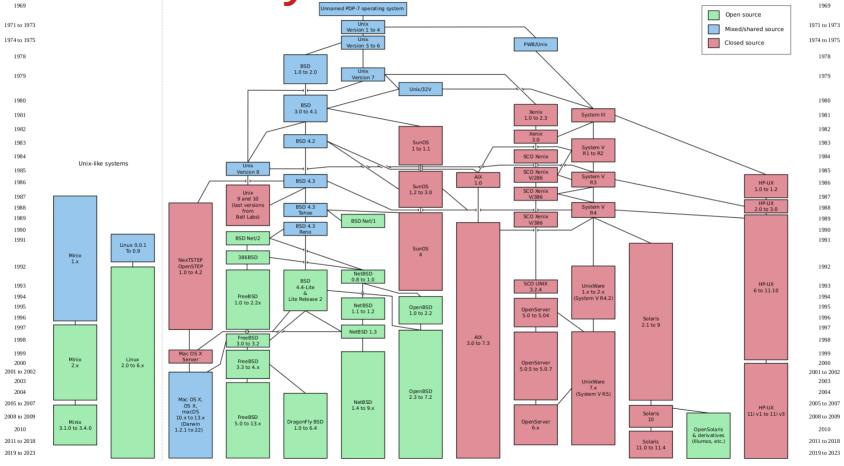
The options are as follows:

-a Display all of the man pages for a specified section and name combination. (Normally, only the first man page found is displayed.)

-C Use the specified file instead of the default configuration file. This permits users to configure their own man environment. See man.conf(5) for a description of the contents of this file.
```

https://pt.wikipedia.org/wiki/Unix#/media/Ficheiro:Man-man.png

**Unix History** 



### Linux



#### **Linus Benedict Torvalds**

☆

Hello everybody out there using minix -

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

Linus (torv...@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT protable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-(.



#### Imagens:

# Sistemas operacionais

Alguns exemplos:





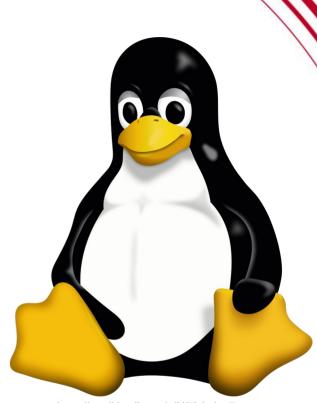






### Linux

- 2.09% do mercado de Desktops
- 47% devs usam linux
- 90% da nuvem
- 96.3% dos top um milhão de web servers
- 85% dos smartphones
- Todos os top500 supercomputadores
- 600+ distribuições (debian, redhat, arch)



https://pt.wikipedia.org/wiki/Ficheiro:Tux.svg

# Acesse a página do curso!



https://insper.github.io/universo-linux/

### Rerefências

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- https://pt.wikipedia.org/wiki/Unix
- https://pt.wikipedia.org/wiki/Linux
- https://fossbytes.com/linus-torvaldss-famous-e mail-first-linux-announcement/

https://truelist.co/blog/linux-statistics/