# Rust para potenciar la Inteligencia Artificial



# Rust en Español

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## Relevancia de la IA

Como tecnologia emergente







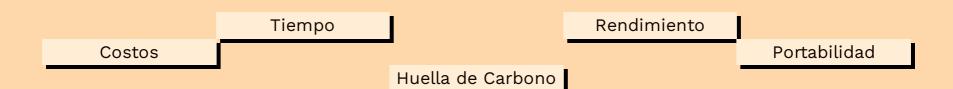




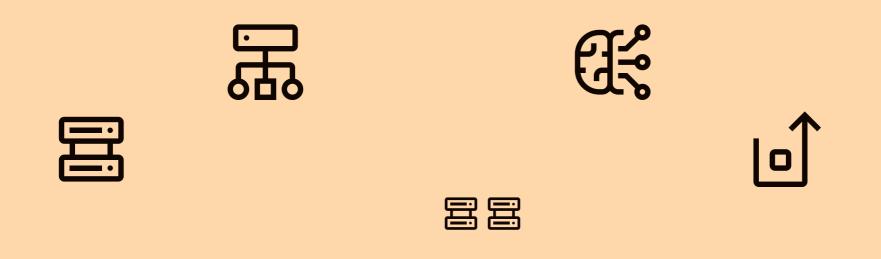
#### Inversion en los ultimos años

93.5 B \$ 121.5 B \$ 158.0 B \$

## Retos en la IA



## ¿Como funciona la IA?



## Librerias Actuales

### El Problema

```
#include <stdio.h>
int main() {
   int *ptr = NULL;

   // Intento de escribir en un puntero nulo
   *ptr = 5;

   return 0;
}
```

```
→ gcc main.c -o main && ./main
Segmentation fault (core dumped)
```

## Librerias para IA

Pandas NumPy
PyTorch TensorFlow

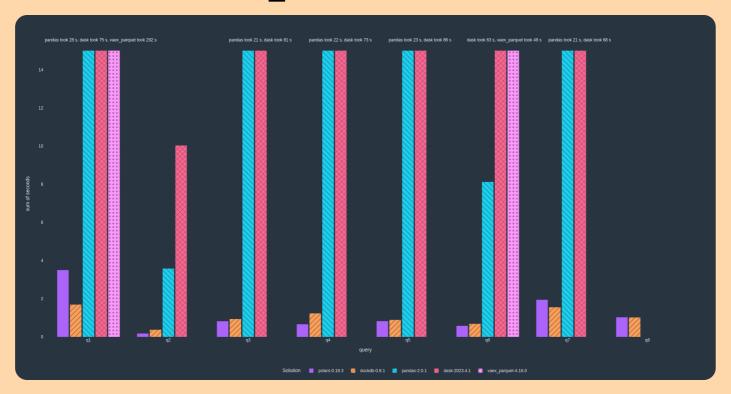
## ¿Porque Rust?

- Multiparadigma
- Herramientas modernas
- Memory safe (null safety, sin fugas de memoria, etc)
- Concurrente de nacimiento
- Sin Garbage Collector
- Abstracciones sin costo
- Enfocado en el rendimiento
- Compilador inteligente

### Librerias para IA con Rust

Polars candle burn leaf

### Librerias para IA con Rust



**Py03** 

# Pero, ¿Ya se usa en Inteligencia Artificial?

	Engrav
(c) C	1.00
(c) Rust	1.03
(c) C++	1.34
(c) Ada	1.70
(v) Java	1.98
(c) Pascal	2.14
(c) Chapel	2.18
(v) Lisp	2.27
(c) Ocaml	2.40
(c) Fortran	2.52
(c) Swift	2.79
(c) Haskell	3.10
(v) C#	3.14
(c) Go	3.23
(i) Dart	3.83
(v) F#	4.13
(i) JavaScript	4.45
(v) Racket	7.91
(i) TypeScript	21.50
(i) Hack	24.02
(i) PHP	29.30
(v) Erlang	42.23
(i) Lua	45.98
(i) Jruby	46.54
(i) Ruby	69.91
(i) Python	75.88
(i) Perl	79.58

	Time		Mb
(c) C	1.00	(c) Pascal	1.00
(c) Rust	1.04	(c) Go	1.05
(c) C++	1.56	(c) C	1.17 <sub>Y</sub>
(c) Ada	1.85	(c) Fortran	1.24
(v) Java	1.89	(c) C++	1.34
(c) Chapel	2.14	(c) Ada	1.47
(c) Go	2.83	(c) Rust	1.54
(c) Pascal	3.02	(v) Lisp	1.92
(c) Ocaml	3.09	(c) Haskell	2.45
(v) C#	3.14	(i) PHP	2.57
(v) Lisp	3.40	(c) Swift	2.71
(c) Haskell	3.55	(i) Python	2.80
(c) Swift	4.20	(c) Ocaml	2.82
(c) Fortran	4.20	(v) C#	2.85
(v) F#	6.30	(i) Hack	3.34
(i) JavaScript	6.52	(v) Racket	3.52
(i) Dart	6.67	(i) Ruby	3.97
(v) Racket	11.27	(c) Chapel	4.00
(i) Hack	26.99	(v) F#	4.25
(i) PHP	27.64	(i) JavaScript	4.59
(v) Erlang	36.71	(i) TypeScript	4.69
(i) Jruby	43.44	(v) Java	6.01
(i) TypeScript	46.20	(i) Perl	6.62
(i) Ruby	59.34	(i) Lua	6.72
(i) Perl	65.79	(v) Erlang	7.20
(i) Python	71.90	(i) Dart	8.64
(i) Lua	82.91	(i) Jruby	19.84

#### Empresas que usan Rust

#### Empresas que usan Rust













































# Rust en Español



- rustlanges.github.io
- 💷 rustlanges.github.io/blog
- @RustLangES
- discord.gg/4ng5HgmaMg
- in /company/rustlanges



#### Web



**Github** 

### Blog Linkedin



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