

# Welcome Rust Argentina

Please grab a snack 🦀

Agenda 📅:

"Using rust for collision detection and resolution using separated axis theorem" ~ **Agustin Escobar**

"Rust Updates" ~ **Hernán Gonzalez**

<https://rust-lang.ar> - 06/06/2024

# Rust Highlights

What's new since we've last met?



# Rust (lang)

Even better developer experience!

- `#[diagnostic::on_unimplemented]`
- `#[cfg(debug_assertions)]`
- `Barrier::new(n: usize)`
- Increased minimum requirement to Windows
- New u128 / i128 layout

```
fn main() {  
    let slice: &[u8] = &[1, 2, 3, 4, 5];  
    let ptr = slice.as_ptr();  
  
    // Create an offset from `ptr` that will always be one off from  
    let i = usize::from(ptr as usize & 1 == 0);  
  
    let slice16: &[u16] = unsafe { std::slice::from_raw_parts(ptr as *const u8, slice.len() * 2) };  
    dbg!(slice16);  
}
```

```
thread 'main' panicked at library/core/src/panicking.rs:220:5:  
unsafe precondition(s) violated: slice::from_raw_parts requires the  
note: run with `RUST_BACKTRACE=1` environment variable to display a  
thread caused non-unwinding panic. aborting.
```

# Tutorials

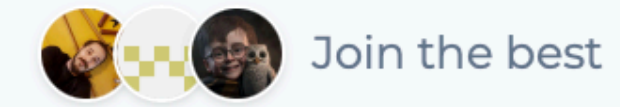
## Interactive Books

- 100 [Rust Exercises](#) by Lucas Palmieri
- [Rustlings](#) by rust-lang community.
- [Master Rust](#) by [codecrafters.io](#)

# Master Rust.

Rust mastery exercises. Become your team's resident Rust expert.

[Resume Track](#) →



## Build your own Redis →



 13/44 stages

Discover concurrent programming in Rust while also learning about TCP servers, network programming, and the Redis Protocol.

-  Bind to a port ✓
-  Respond to PING ✓
-  Respond to multiple PINGs ✓
-  Handle concurrent clients ✓
-  Implement the ECHO command ✓
-  Implement the SET & GET commands ✓
-  Expiry ✓

Replication

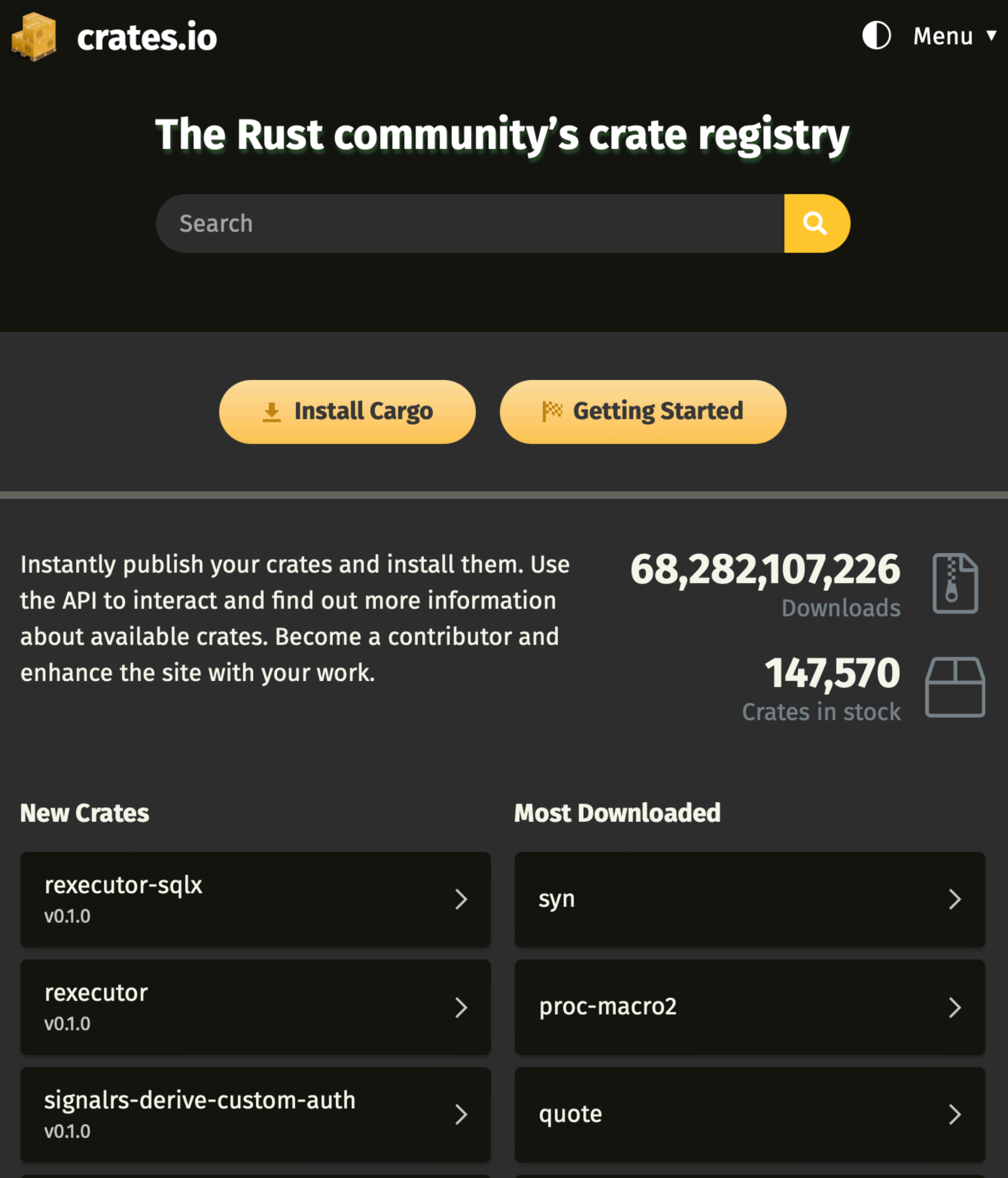
-  Configure listening port

EASY 

# Tooling

## Interactive Books

- [RustRover](#) free for non-commercial
- [crates.io](#) has a dark mode!



The screenshot shows the crates.io website in dark mode. At the top left is the crates.io logo. The main heading reads "The Rust community's crate registry". Below this is a search bar with the text "Search" and a magnifying glass icon. Two yellow buttons are visible: "Install Cargo" and "Getting Started". A horizontal line separates the header from the main content. The main content area features a paragraph: "Instantly publish your crates and install them. Use the API to interact and find out more information about available crates. Become a contributor and enhance the site with your work." To the right of this text are two statistics: "68,282,107,226 Downloads" with a download icon, and "147,570 Crates in stock" with a crate icon. Below these are two columns: "New Crates" and "Most Downloaded". The "New Crates" column lists "rexecutor-sqlx v0.1.0", "rexecutor v0.1.0", and "signalrs-derive-custom-auth v0.1.0". The "Most Downloaded" column lists "syn", "proc-macro2", and "quote". Each entry has a right-pointing chevron icon.

# Crate

Today recommendation goes to...

- Ratatui
- Cooking up terminal user interfaces in Rust



# Workshops

# Workshops

Let's build together!

- Community Driven
- Online
- Once a Week
- Recorded





**#thankyou**

# Hernán

## Solutions Architect

- 📅 20 Engineering
- 🤖 Swift, Rust, C/C++/x86, Java, Python, JS,
- 🤝 Delivery, Architecture, Strategy & Mobile SME.
- 📈 Finance, Travel, Hospitality, Dating, Gaming, Media, Social Media & Public Sector.

