## C++ to Rust

Follow this series for more bite-sized comparisons between C++ and Rust!

## **References & Mutability**

Rust.

C++

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## What to notice:

- > In both C++ and Rust, references allow you to work with values without copying.
- Rust enforces exclusive mutability: you can't have multiple references if one is mutable—this avoids data races at compile time.
- © C++ references can be const or not, but the compiler doesn't enforce the same level of aliasing safety as Rust.
- \*\* Rust uses \*r to dereference and assign, like C++ pointers, but with safety guarantees built into the borrow checker.
- Which one do you think makes references safer to use?