Rust

A systems language for safety, concurrency, and speed

# Why Rust?

## Full control on memory

* No garbage collection
* Lay out data structures in memory
* Custom memory allocators

## Affine types

Building on developments in non-classical logic, affine types provide strong safety guarantees at **zero runtime cost**:

* Memory safety
* Data race-freedom

## Modular standard library

Operating systems developers can get started with *libcore*, Rust’s bare-metal development library.

## A vibrant ecosystem

Build and publish your code with *Cargo*, Rust’s build system and package manager.

Leverage the thousands of Rust libraries available for free on *crates.io*.