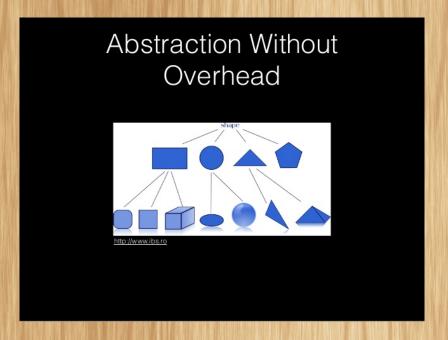


Rust Pillars Memory safety without GC (garbage collector) Abstraction without overhead. Concurrency without data races.





RUST systems programming language

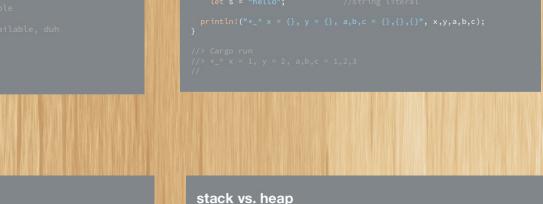
Rust is a systems programming language that runs blazingly fast, prevents almost all crashes*, and eliminates data races.

There is no garbage collection in Rust. The lifetime of a variable and de-allocates it where it is no longer used.

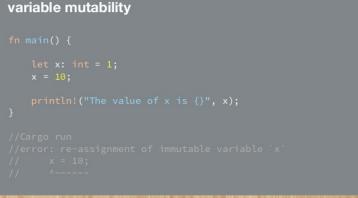
Super fast code generation.

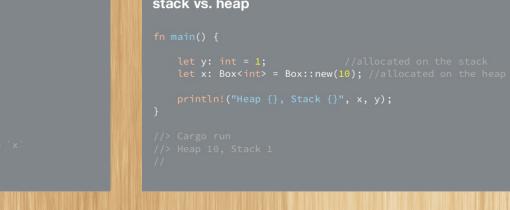
C function compatibility (extern C). Simpler syntax than C++.



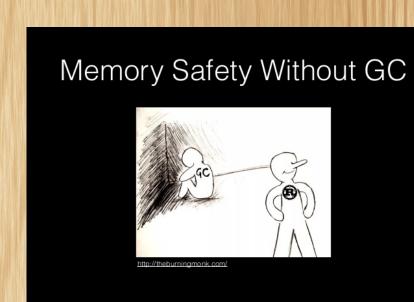


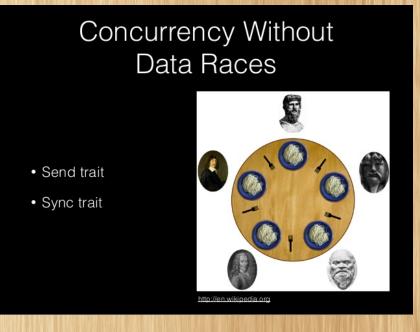
variable bindings











Conclusion
Gives control without compromising safety
Zero cost abstractions
Zero cost safety
Guarantees beyond dangling pointers

Iterator invalidation in a broader sense