Status: #idea

Tags: #programming #rust #coding #memory

## **Ownership in Rust**

Rust Language Book

The system of ownership is how Rust can make memory safety guarantees without needing runtime processes like garbage collection. It achieves this by applying a set of rules:

- · each value in Rust has an owner
- there can only be one owner at a time
- when the owner goes out of scope, the value will be dropped and the memory is freed

```
// s is not valid here

let s = "hello"; // s is valid from this point on

// do stuff with s

// this scope is over, s
// isn't valid any more
```

Values can be have temporary ownership by Borrowing in Rust.

## References

Rust Book - Chapter 4