At References & Borrowing! Fr main() { what's wrong with this let S1: Stromg::foom("hello"); code!? lct (splen): calculate length (11); print In! ("The length of 'ab' is a ?! sz. len); Here, we have to return string's' to the for calculate-length (Sistoring) -> (String, 4 &ize)s calling function, so we let length: Silen(); can still use the string 1 (S, length) affee call to calculate-length because string was moved to calculate_length & becomes hvalid affect that. =) We can provide reference to string value instead of returning string itself: let len: calculate-length (& SI) | & inside calculate-length Simply return | S.len() allows us to refer values without taking ownership of it 21 value Mame value index | value name Ptr 0 Ptr 100 copacits. & String s pointing at String SI

The opposite of referencing by using 'b' is deferencing. Its a complished with deference operator 'x'.

let si = string: from ("hello") let len = calculate length (USI);

it lets us create a reference that refers to the value of SI but does not own it.

for calculate length (s: & String) -> usize & here s is a reference solvents a string.

Shence

Rule of references:

- 1) At any given time, you can have either one mutable reference or any number of immutable references
- D references must always be valid