

CS128 Honors Rust 101 Module

Slides by Matt Geimer (FA21) Presented 9/1/2021



What is 10? 10

- IO is short for input/output
- IO is the interaction between the computer and an external source, where some data is input and the computer outputs data
- IO doesn't always have to be a human either. It can be a file or a network



Rust 10 Rust 10

```
use std::io;
use std::io::Write;
fn main() {
    let mut input = String::new();
    print!("Enter your name: ");
    io::stdout().flush().unwrap();
    io::stdin().read_line(&mut input).unwrap();
    println!("Howdy, {}", input.trim());
```



Rust 10 Rust 10

```
use std::io;
use std::io::Write;
fn main() {
    let mut input = String::new();
    print!("Enter your name: ");
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    io::stdin().read_line(&mut input).unwrap();
    println!("Howdy, {}", input.trim());
```





Reading from a file Rust 10

```
use std::io::prelude::*;
use std::io::BufReader;
use std::fs::File;
fn main() {
    let f = File::open("src/main.rs").unwrap();
    let reader = BufReader::new(f);
    for line in reader.lines() {
        println!("{}", line.unwrap());
```



Reading from a file Rust 10

```
fn main() {
    let f = File::open("src/main.rs").unwrap();
    let reader = BufReader::new(f);

    for line in reader.lines() {
        println!("{}", line.unwrap());
    }
}
```



Summary Rust IO

- IO allows the program to send/receive data
- Typically either to a human/file
- Learned about
 - flush
 - read_line
 - lines
 - unwrap



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Sources Used

- Rust Crate Documentation
 - https://doc.rust-lang.org/std/io/index.html