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How dost give a TcpStream to a BufReader but then take it back?

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I have a struct:

```
pub struct Paradise {
    cstream TcpStream,
}
```

with a method:

```
pub fin write_message(&mut self, code: i32, message: &str) {
    let foo = format!("{} {}\r\n", code, message);
    let _ = self.estreamwrite(foo.as_bytes());
}
```

That works great. It's an FTP server so when I get a new $\,$ TcpStream from TcpListener::bind I do:

```
let mut p = Paradise::new(stream);
p.start();
```

And inside that start method I call:

```
self.write_message(220, "Welcome to Paradise");
```

and sure enough, I see that message in the FTP client. So far so good.

But then I do:

```
let mut br = BufReader::new(&self.cstream);
loop {
    let mut buffer = String::new();
    let _= br.read_line(&mut buffer);
    println!("{:?}", buffer);
    self.write_message(550, "Testing");
```

And when I get to the next write_message call inside the loop:

cannot borrow *self as mutable because self.cstream is also borrowed as immutable [E0502]

Full code:

 $\underline{https://github.com/andrewarrow/tinted_paradise/blob/169cc5f7025c417814f47a1fb3e3fc78ce4f9516/src/paradise.rs}$

 $\underline{https://github.com/andrewarrow/tinted_paradise/blob/169cc5f7025c417814f47a1fb3e3fc78ce4f9516/src/starter.rs$

How can I change stuff around so I can call write_message inside the loop?

memory-management reference rust borrowing

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edited Aug 21 '16 at 19:15



Shepmaste

305k • 59 • 824 • 1083

asked Aug 21 '16 at 18:59



Andrew Arrow

4,117 • 8 • 41 • 75

There are currently <u>72 questions for the error message you've specified</u>
– Shepmaster
Aug 21 '16 at 19:22

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- Andrew Arrow

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courteous to read (a good portion of) them in addition to the normal Rust documentation and explain what makes your question different. Note that I answered the question you asked in the title, which seemed unique, but perhaps is actually a duplicate of stackoverflow.com/q/35869078/155423 or those linked from there. - Shepmaster Aug 21 '16 at 19:32 Also, I'm pretty sure that "Why are you so against learning?" is some kind of logical fallacy or similar... ^_^ Aug 21 '16 at 19:35 🎤 2 @AndrewArrow: The purpose of stackoverflow is to get an answer to your question without having to ask it. It also aims at consolidating knowledge, rather than having it scattered across a dozen half-hearted explanations among so many pages. This means that, in general, if you ask a question that has already been asked, it should be closed. If the answers on the already asked question are insufficient, then it is best to improve those rather than leave incomplete answers there. As a corollary, a different question need to clearly indicate how it is different; it may not be obvious. - Matthieu M Aug 21 '16 at 20:22 1 Answer Active Oldest Votes How do I give a TcpStream to a BufReader but then take it back? By calling $\underline{\text{BufReader::into_inner}}$: impl<R: Read> BufReader<R> { fn into_inner(self) -> R Unwraps this BufReader, returning the underlying reader. Note that any leftover data in the internal buffer is lost. Improve this answer answered Aug 21 '16 at 19:15 **305k** • 59 • 824 • 1083 Your Answer Post Your Answer By clicking "Post Your Answer", you agree to our terms of service, privacy policy and cookie policy Not the answer you're looking for? Browse other questions tagged $\hline \text{memory-management} \quad \boxed{\text{reference}} \quad \text{rust} \quad \boxed{\text{borrowing}} \quad \text{or ask your own question}.$ The Overflow Blog Sequencing your DNA with a USB dongle and open source code Don't push that button: Exploring the software that flies SpaceX rockets and.. Featured on Meta Q Providing a JavaScript API for userscripts Q Congratulations to the 59 sites that just left Beta

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Haha, I'm certainly not against learning. I am (obliquely) pointing out that multiple people have spent significant time explaining that error message to ~70 people in ~70 contexts. It would be

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