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[\*\*As I can make the vector is mutable inside struct\*\*](#)

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Asked 9 years, 8 months ago

Modified [3 years, 3 months ago](#)

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8

As I can make the vector is mutable

```
pub struct Test<'a>{
    vec: &'a mut Vec<i32>,
}
impl<'a> Test<'a> {
    pub fn created()->Test<'a>{
        Test {vec: &'a mut Vec::new() }
    }
    pub fn add(&self, value: i32){
        self.vec.push(value);
    }
}
```

---

```
expected `:>, found `mut`  
Test {vec: &'a mut Vec::new() }  
      ^~~
```

This is a [similar question](#) but

and the answer works, but what if I do not want, you can do this, "applying the response link"

```
pub struct Test{
    vec: Vec<i32>,
}
impl Test {
    pub fn created()->Test {
        Test {vec: Vec::new() }
    }
    pub fn add(&mut self, value: i32){
        self.vec.push(value);
    }
}
...//  
let mut test: my::Test = my::Test::created();  
test.add(1i32);  
  
let mut test1: my::Test = my::Test::created();  
  
test1 = test; <-- I do not want, you can do this  
...//
```

as I can make the vector is mutable, without making it be all the struct

- [rust](#)

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asked Apr 4, 2016 at 21:37

[Angel Angel](#)

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1

Likely duplicate of [stackoverflow.com/q/32682876/155423](#).

Shepmaster – [Shepmaster](#)

2016-04-04 21:49:50 +00:00

Commented Apr 4, 2016 at 21:49

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## 1 Answer

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11

Maybe you are looking for [interior mutability](#). Please, do not use interior mutability loosely, read [this](#) first.

```
use std::cell::RefCell;

pub struct Test{
    vec: RefCell<Vec<i32>>,
}

impl Test {
    pub fn created()->Test {
        Test {vec: RefCell::new(Vec::new()) }
    }
    pub fn add(&self, value: i32){
        self.vec.borrow_mut().push(value);
    }
}

fn main() {
    let test = Test::created();
    test.add(1i32);

    let test1 = Test::created();
    // test1 = test; // does not work anymore
}
```

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[edited Aug 25, 2022 at 0:03](#)

answered Apr 19, 2016 at 13:58

[malbarbo](#)

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Angel Angel

[Angel Angel Over a year ago](#)

thanks for your time, and the recommendation of the link for this case

2016-04-19T14:28:52.7Z+00:00

0

Reply

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Carl Walsh

[Carl Walsh Over a year ago](#)

The book link is pretty old and it links to a section of the new book that doesn't discuss "interior mutability"; I think you'll want

[doc.rust-lang.org/book/ch15-05-interior-mutability.html](https://doc.rust-lang.org/book/ch15-05-interior-mutability.html)

2022-08-24T16:10:12.693Z+00:00

0

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