

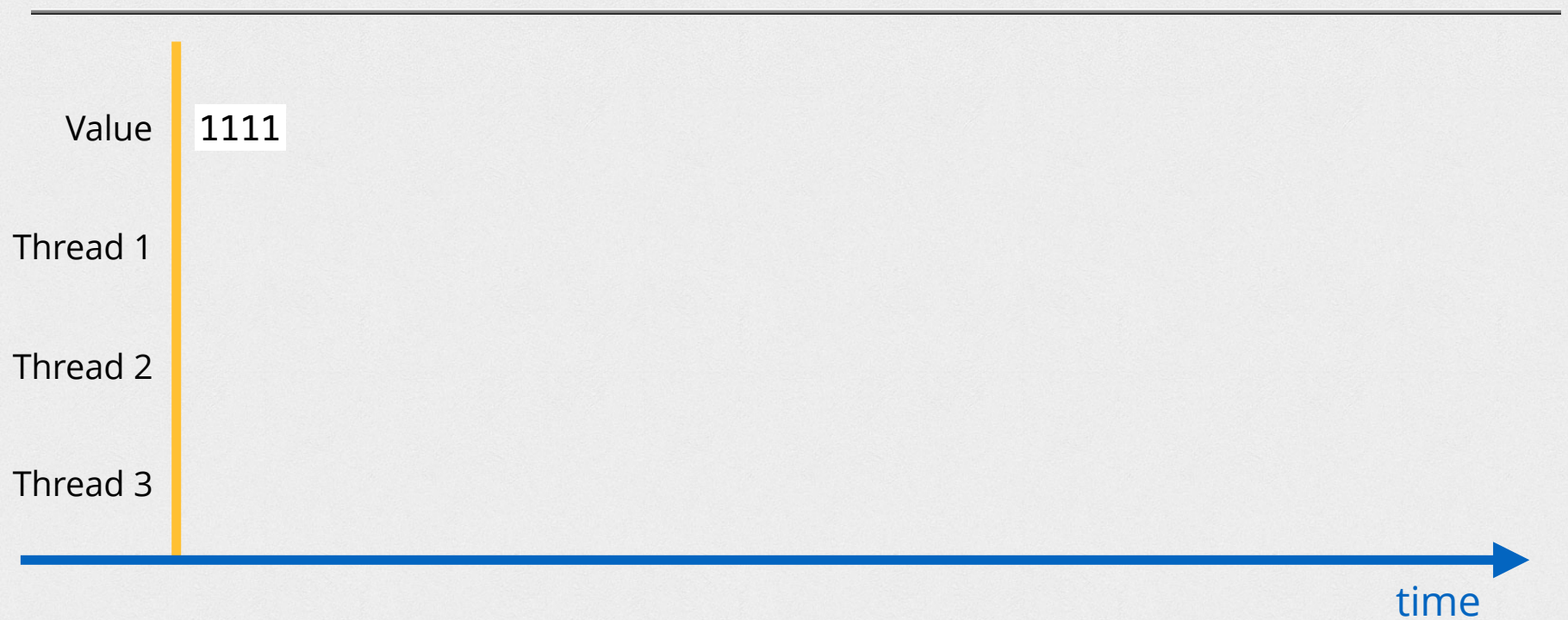
Introducing

Concurrency

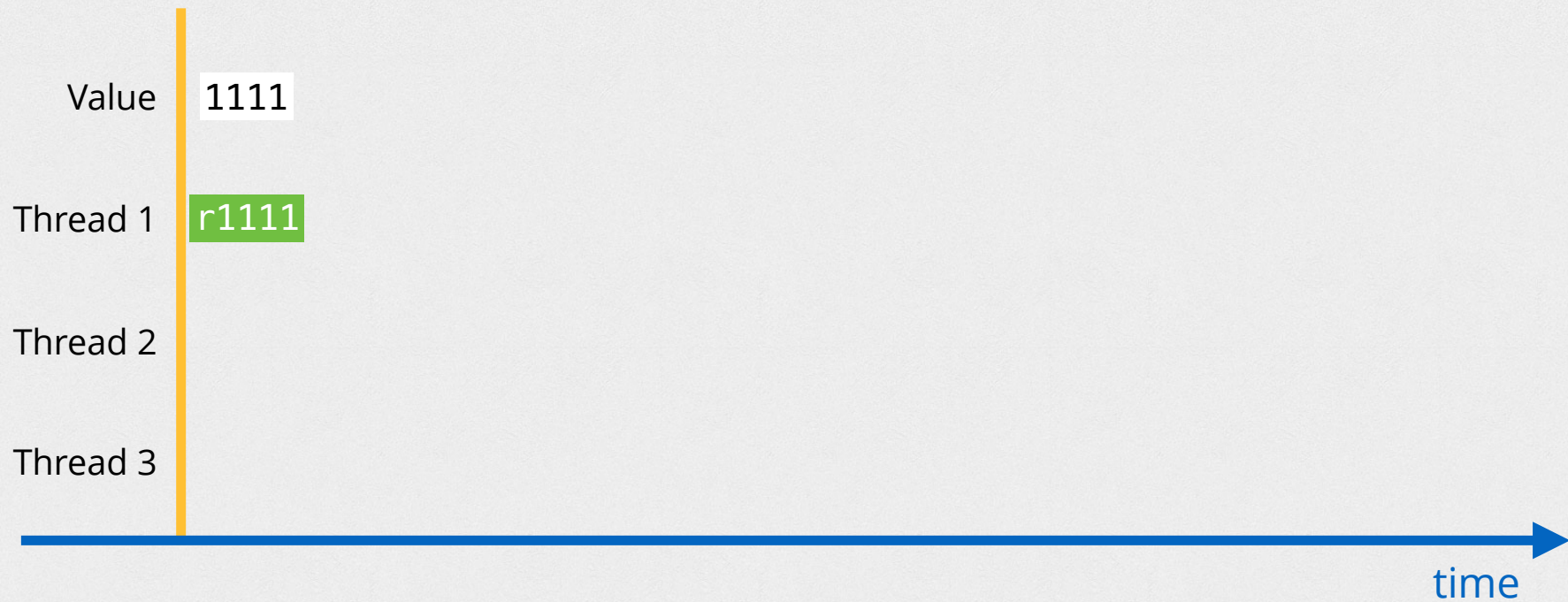
Thread-safe Resources

raywenderlich.com

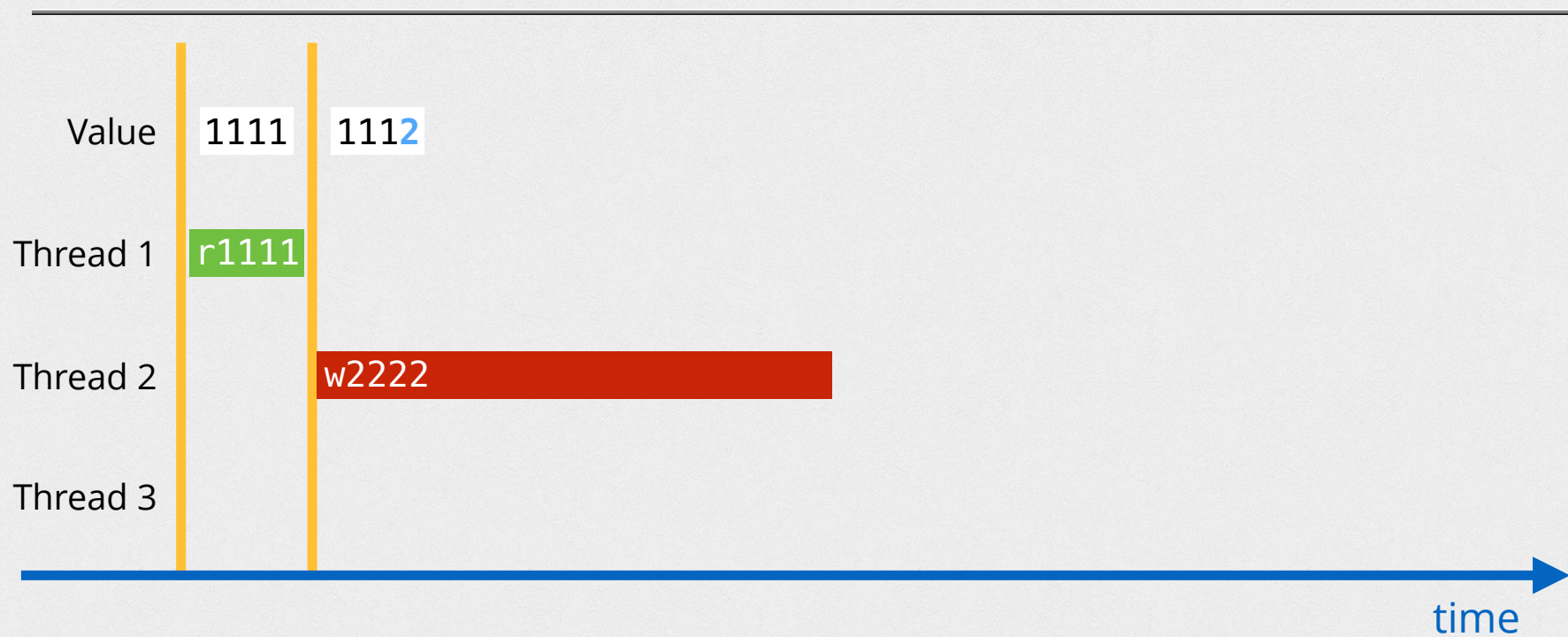
Thread Safety



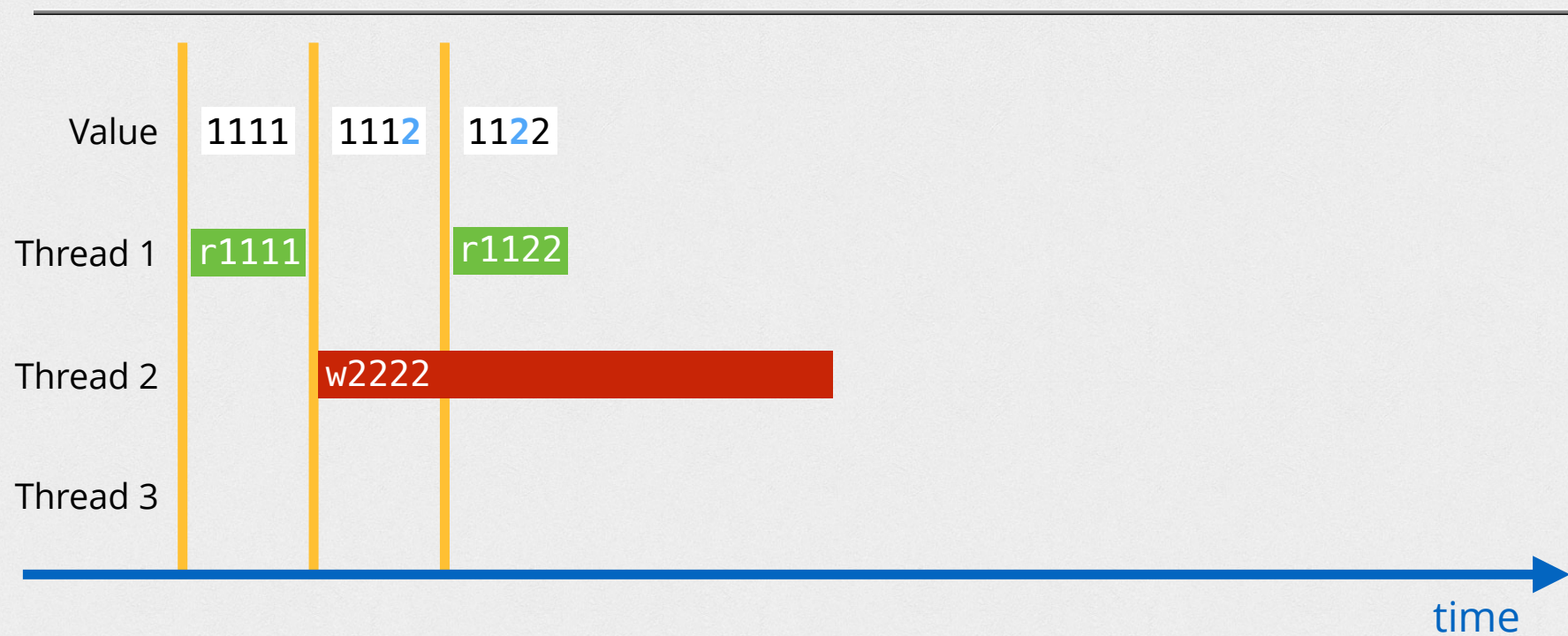
Thread Safety



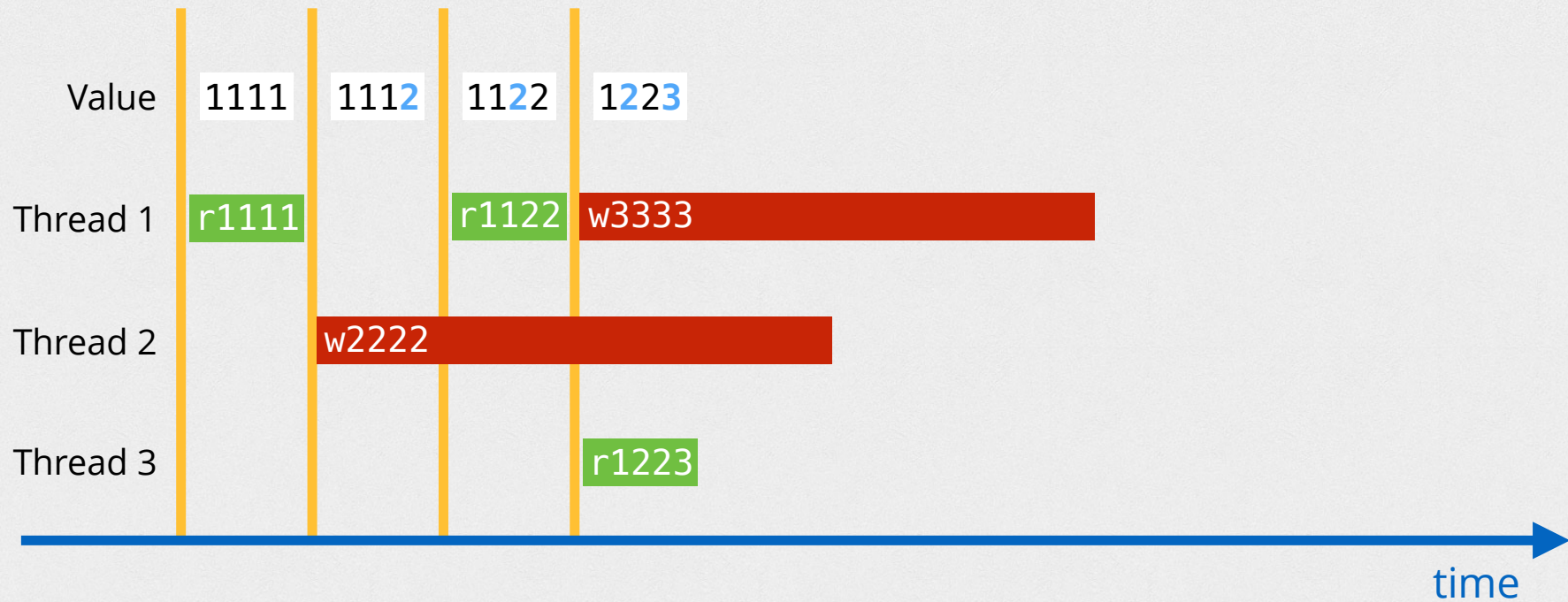
Thread Safety



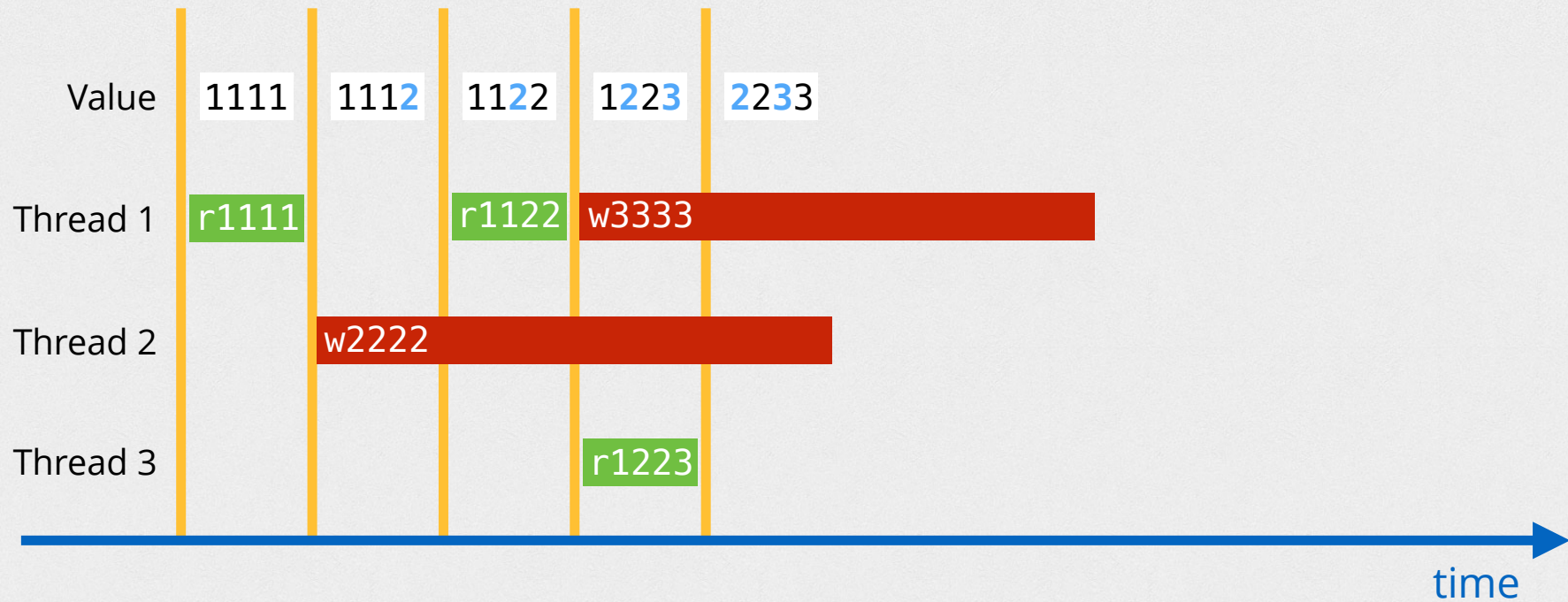
Thread Safety



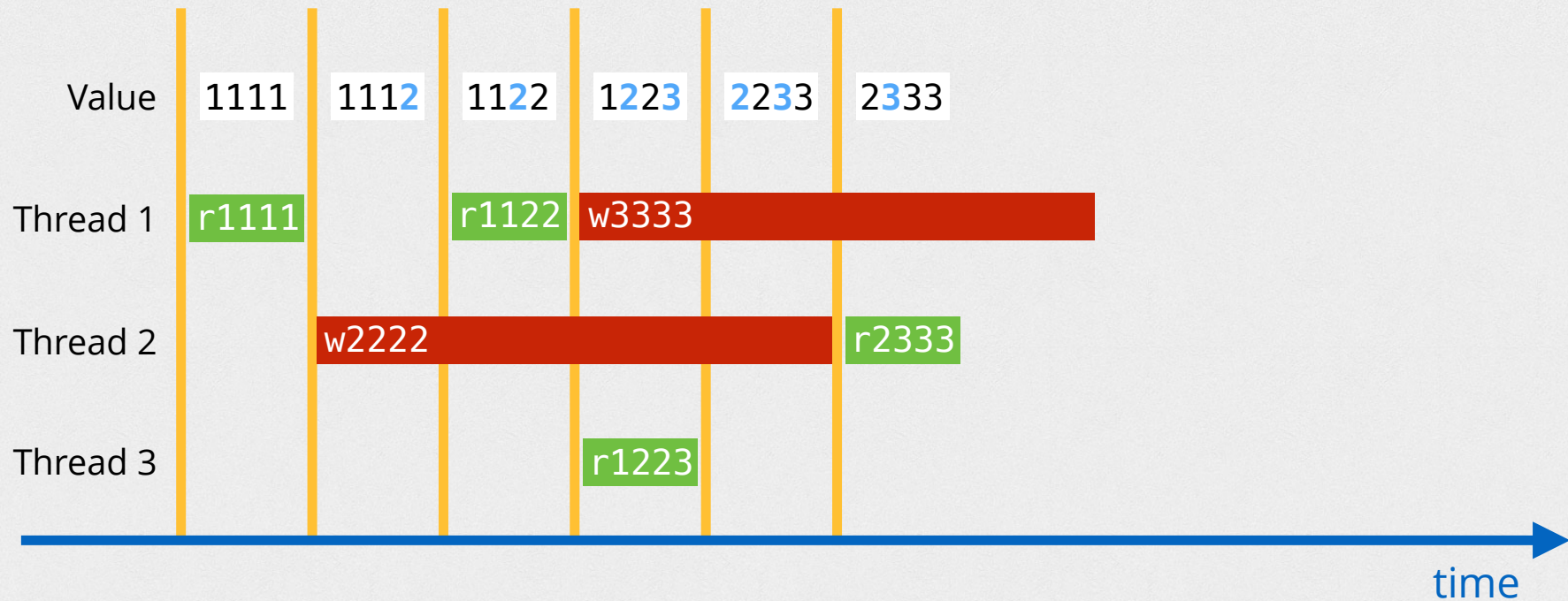
Thread Safety



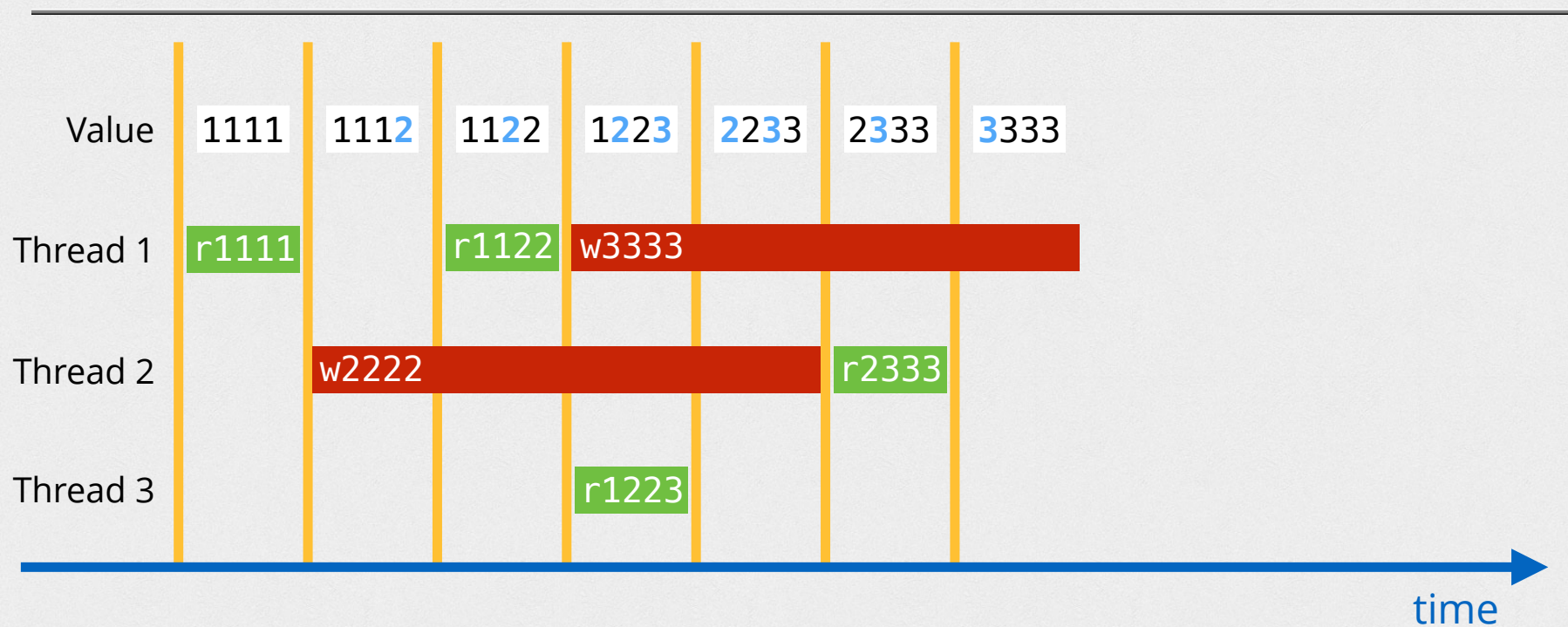
Thread Safety



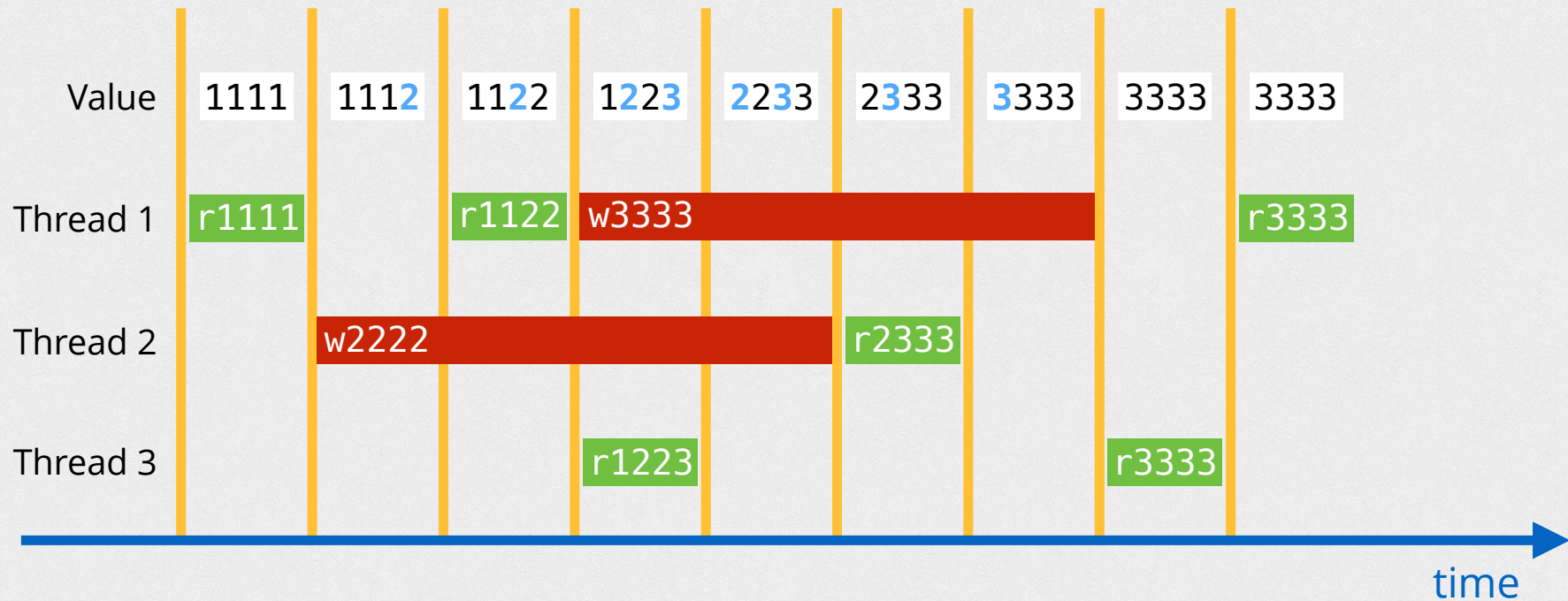
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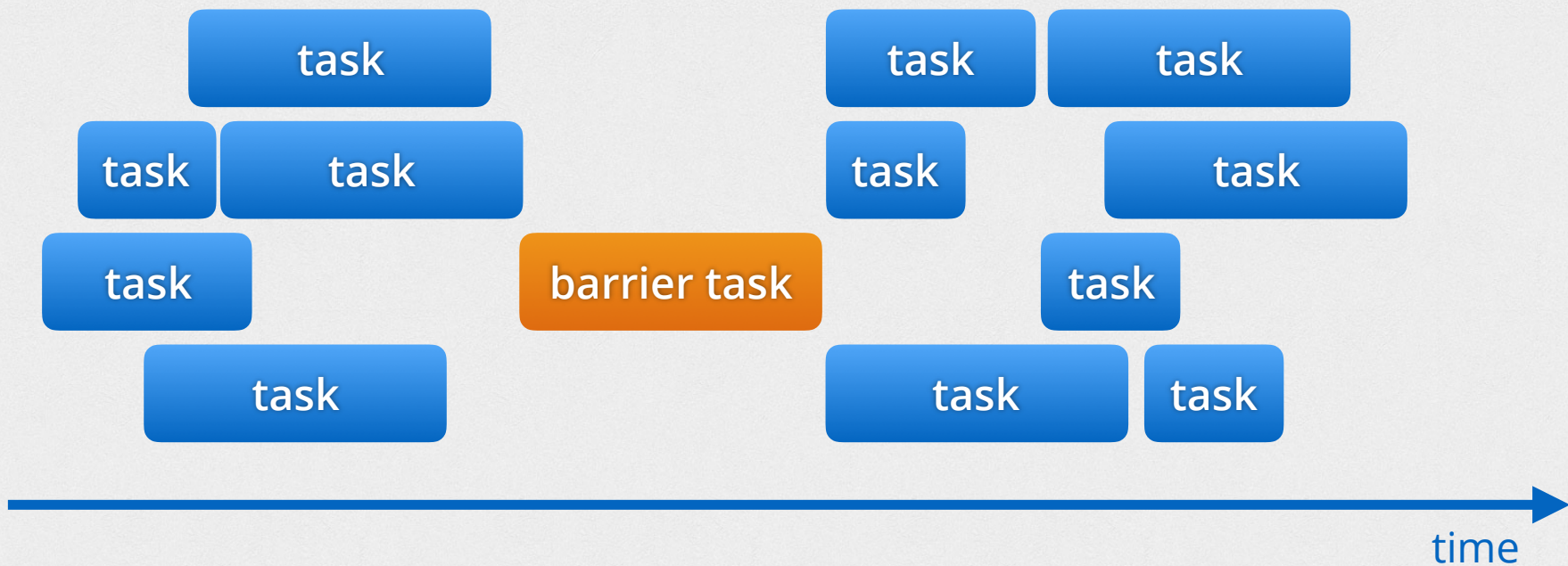
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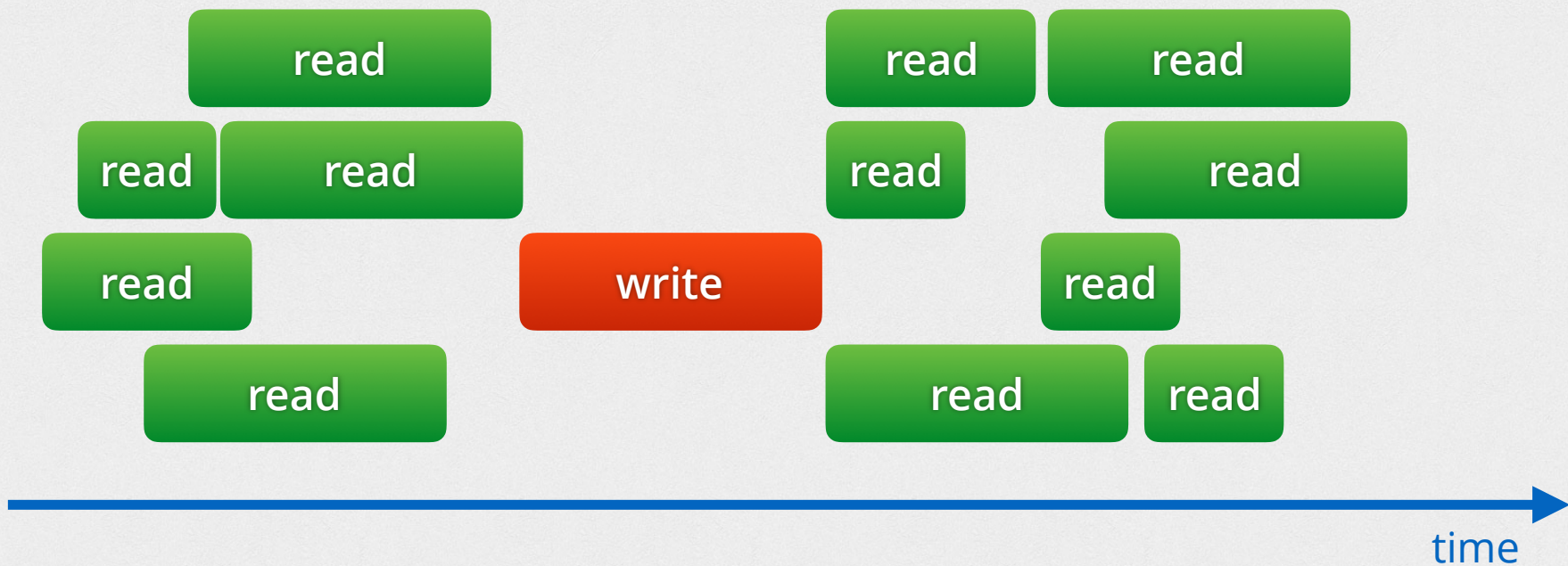
Thread Safety



Dispatch Barrier



Dispatch Barrier



Dispatch Barrier

```
public func dispatch_barrier_async(queue: dispatch_queue_t,  
                                   _ block: dispatch_block_t)  
  
public func dispatch_barrier_sync(queue: dispatch_queue_t,  
                                   _ block: dispatch_block_t)
```

It's Challenge Time!

```
class Number {  
    var value: Int  
    var name: String  
  
    init(value: Int, name: String) {  
        self.value = value  
        self.name = name  
    }  
  
    func changeNumber(value: Int, name: String) {  
        randomDelay(0.1)  
        self.value = value  
        randomDelay(0.5)  
        self.name = name  
    }  
  
    var number: String {  
        return "\(value) :: \(name)"  
    }  
}
```