

Module 4: Threads in Go

Topic 2.3: Mutex Methods

Sync.Mutex Methods

- **Lock()** method puts the flag up
 - Shared variable in use
- If lock is already taken by a goroutine, `Lock()` blocks until the flag is put down
- **Unlock()** method puts the flag down
 - Done using shared variable
- When `Unlock()` is called, a blocked `Lock()` can proceed

Using Sync.Mutex

- Increment operation is now mutually exclusive

```
var i int = 0
var mut sync.Mutex
func inc() {
    mut.Lock()
    i = i + 1
    mut.Unlock()
}
```