

Module 3: Threads in Go

Topic 1.1: Goroutines

Creating a Goroutine

- One goroutine is created automatically to execute the `main()`
- Other goroutines are created using the **go** keyword

```
a = 1  
foo()  
a = 2
```

```
a = 1  
go foo()  
a = 2
```

- Main goroutine blocks on call to `foo()`
- New goroutine created for `foo()`
- Main goroutine does not block

Exiting a Goroutine

- A goroutine exits **when its code is complete**
- **When the main goroutine is complete**, all other goroutines exit
- A goroutine may not complete its execution because main completes early