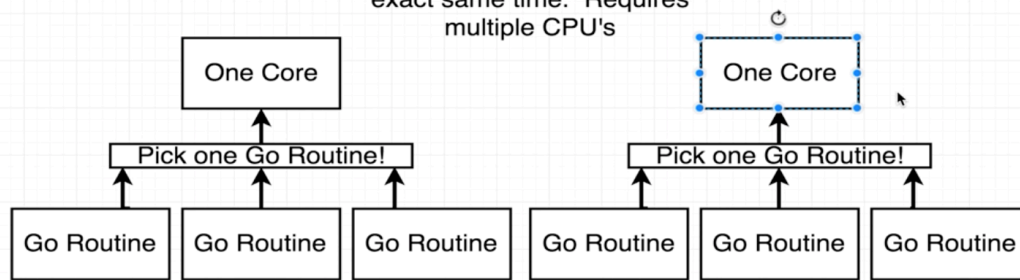
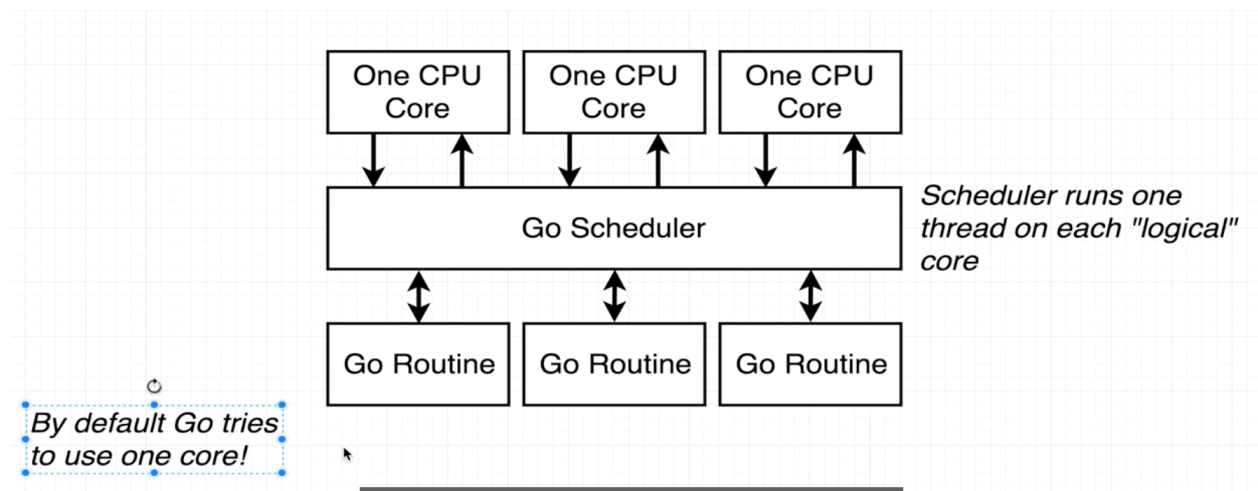
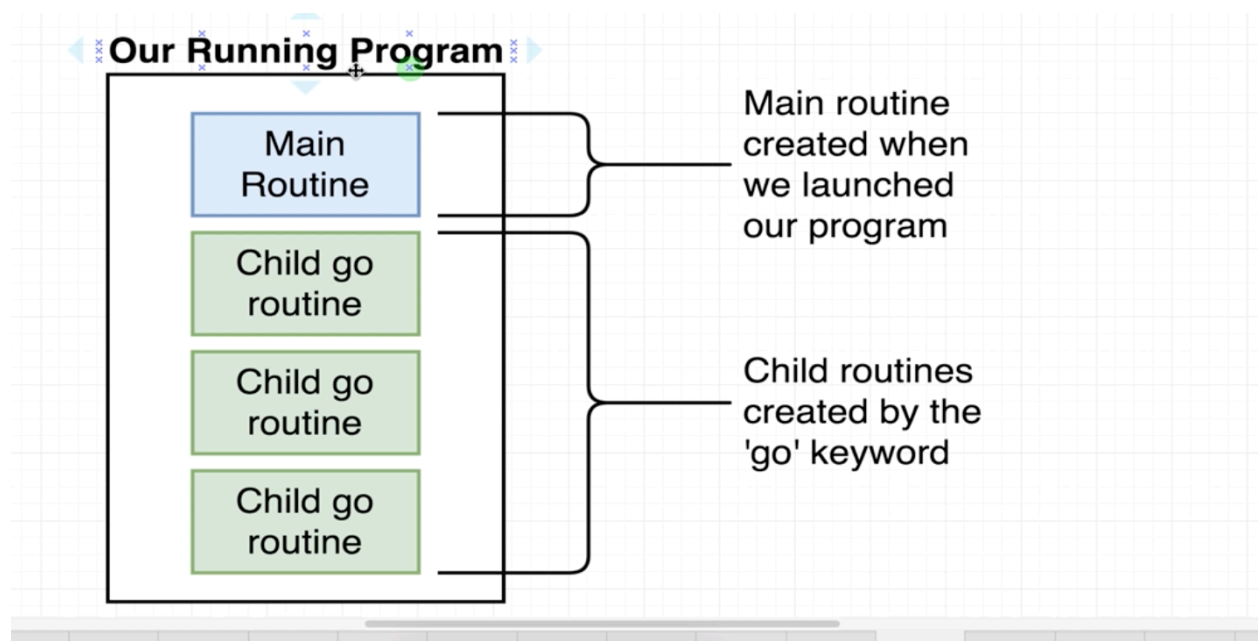


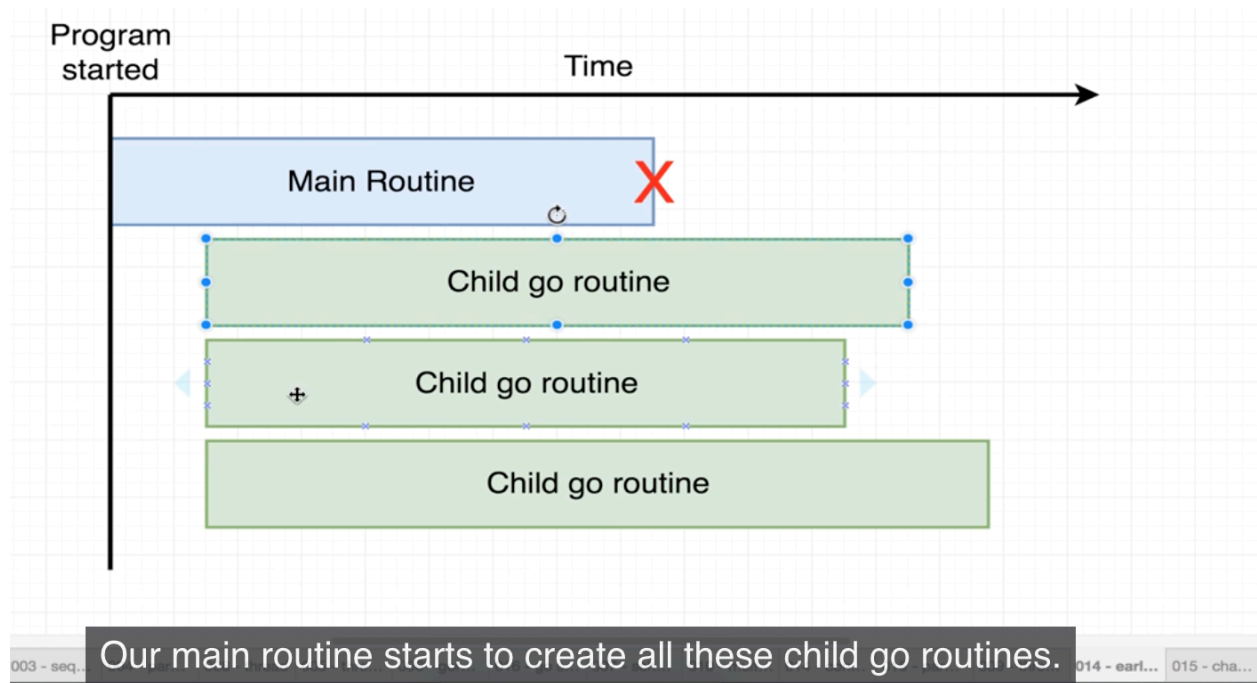
Parallelism - Multiple threads executed at the exact same time. Requires multiple CPU's



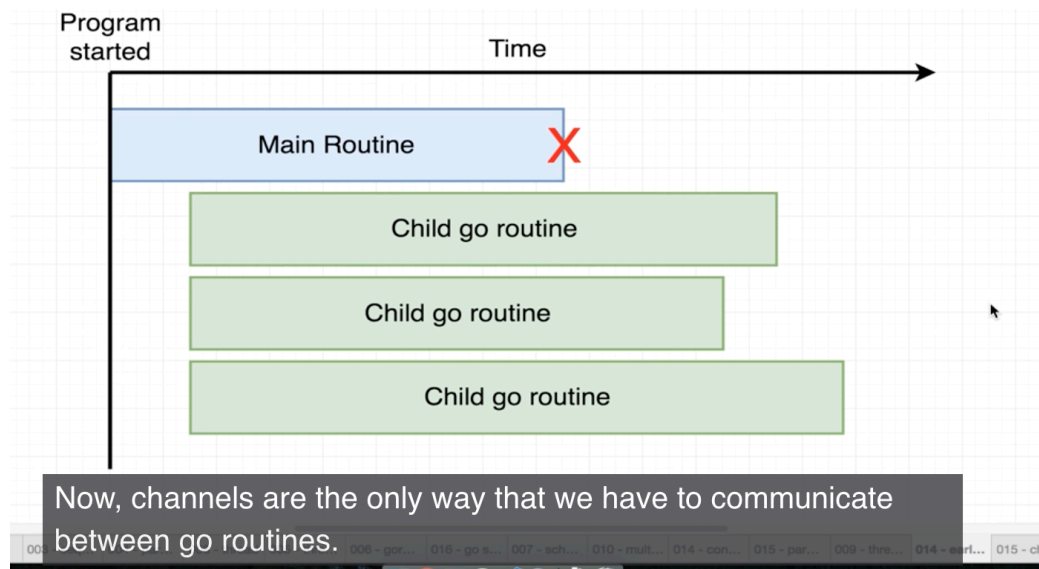
So this core can run one go routine at the same exact time that this core runs another go routine.

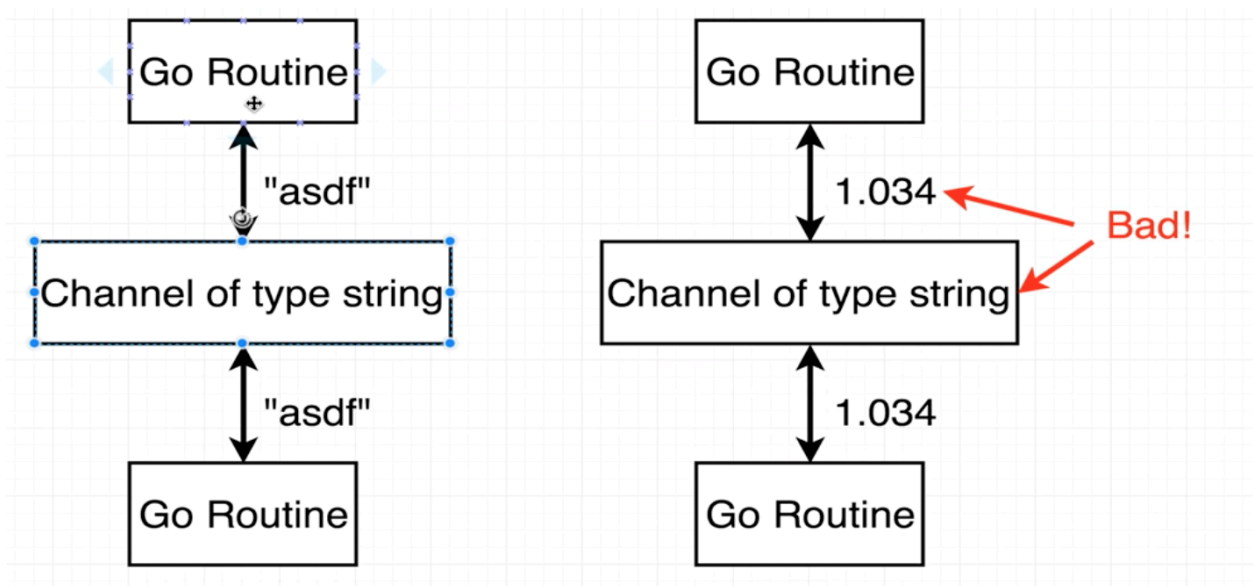
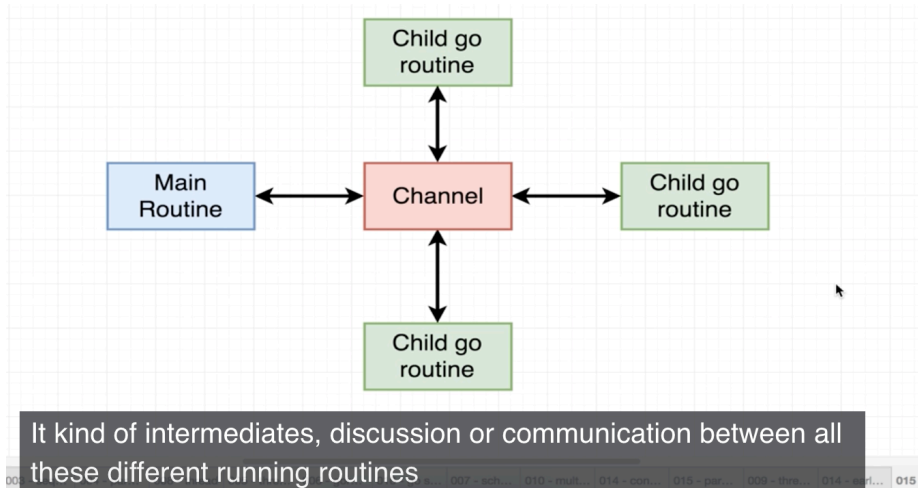


ERROR



Channels





```
func main() {  
    links := []string{  
        "http://google.com",  
        "http://facebook.com",  
        "http://stackoverflow.com",  
        "http://golang.org",  
        "http://amazon.com",  
    }  
  
    c := make(chan string)  I  
  
    for _, link := range links {  
        go checkLink(link)  
    }  
}
```

```
func checkLink(link string) {  
    // so this right here is how we create a brand new channel.
```

Tab Size: 4

```

c := make(chan string)

for _, link := range links {
    go checkLink(link, c)
}

func checkLink(link string, c chan string) {
    _, err := http.Get(link)
    if err != nil {
        fmt.Println(link, "might be down!")
        return
    }

    fmt.Println(link, "is up!")
}

```

Sending Data with Channels

```
channel <- 5
```

Send the value '5' into this channel

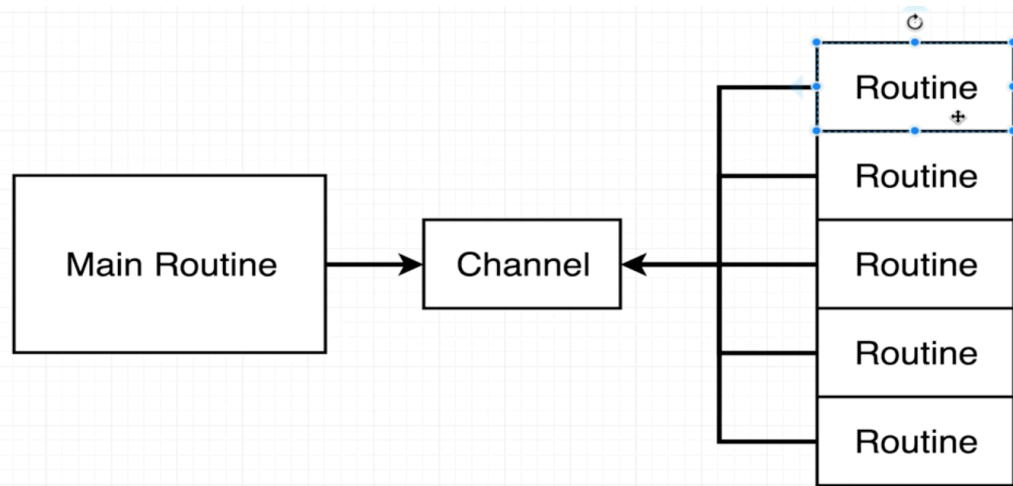
```
myNumber <- channel
```

Wait for a value to be sent into the channel. When we get one, assign the value to 'myNumber'

```
fmt.Println(<- channel)
```

Wait for a value to be sent into the channel. When we get one, log it out immediately

So there's always going to be one person who is sending a message and then another person or another



So for us, we might want to send data from the main routine to all of our child go routines, or we