

More On Go

"It is not the strongest of the species that survives, nor the most intelligent. It is the one that is the most adaptable to change." Charles Darwin

1st. the news

1. AU - Research - linear scaling (similar to blockchain) 8000 tx per sec, don't specify latency.
2. Java 4th garbage collector - tried it. Provision at 20% before, now at 25% ok, at 30% boom.
3. Did everybody in the class get a "key".
4. California bill passed that defines things like "digital signature".

2nd. Purpose of a business

To make a profit for the owners of the business.

What is "Fiduciary Responsibility". It means that you have been placed / are in a position of legal responsibility for managing somebody else's money.

Go

1. Functions

Parts of a function

```
// Name will do a b c d.  
func Name ( i1 Type1, i2 Type2 ) ( o1 Type1, o2 Type2 ) {  
    // Comment in body  
}
```

Observations 1. Name starts with a capital, therefore exported from package. 2. You can have more than 1 return value. 3. "error" is usually the last return value. 4. Comments on functions need to start with the name of the function.

1. Maps

Go has dictionary/maps

```
var m1 map[string]int  
m1 = make(map[string]int)
```

```
m1["abc"] = 12
k := m1["abc"]
k2 := m1["xyz"]
k3, ok_t := m1["abc"]
k4, ok_f := m1["xyz"]
```

Observations 1. memory is not allocated to a map when it is declared. 2. You can just use `make` and `:=` to declare a map. 3. You can test to see if you have an un-allocated map by comparing to `nil`. 4. You can find out if a value is in a map.

1. Slices (Arrays)

An Array

```
var a1 [4]int
```

A slice

```
var s1 []int
```

What is a slice?

1. io & cli

Output:

```
fmt.Printf ( "Format %s\n", "string" )
```

CLI

```
fmt.Printf ( "%s\n", os.Args[] )
```