

More On Go / Fiance

1st. the news

1. Google is starting a blockchain/cryptocurrency system.
2. Atleast 30 major elections around the world have been run on the Blockchain. This includes a number of provinces in Spain.

2nd. Purpose of a business

1. 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.

1. Definitions / Economics

"arbitrage" ::= the simultaneous buying and selling of securities, currency, or commodities in different markets or in derivative forms in order to take advantage of differing prices for the same asset.

1. How Soros broke the Bank of England.

Price Stable Cryptocurrencies (or pegged cryptocurrencies)

Reference

The Trade of the Century: When George Soros Broke the British Pound

PRICEONOMICS

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By Rohin Dhar

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"I've learned many things from [George Soros], but perhaps the most significant is that it's not whether you're right or wrong, but how much money you make when you're right and how much you lose when you're wrong."

Stanley Druckenmiller, 1994

In 1992, George Soros brought the Bank of England to its knees. In the process, he pocketed over a billion dollars. Making a billion dollars is by all accounts **pretty cool**. But demolishing the monetary system of Great Britain in a single day with an elegantly constructed bet against its currency? That's the stuff of legends.

Though it occurred just two decades ago, Soros made his nation-shaking bet in a very different time. Back then, hedge funds hadn't yet entered the public consciousness, restrictions on capital flowing from one country to another were just lifted, and the era of the 24-hour news cycle had just begun.

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[Soros Broke the Bank of England](#)

Personal Finance

Two Economies in US today. The "high-tech" and the "traditional" economy.

winner	per_capita_income_2020
Joseph R Biden Jr	65531.65
Donald J Trump	47960.04
(2 rows)	

An income model.

Blockchain and Mining

What is Mining and How is it implemented.

What is proof-of-work? What is proof-of-stake? What is a public blockchain / private blockchain?

Diagram of blocks

Diagram of mining

What is the mining process

1. More on Go

Maps do not synchronize automatically. So... Synchronization Primitives:

```

1: package main
2:
3: import (
4:     "fmt"
5:     "sync"
6:     "time"
7: )
8:
9: // SafeCounter is safe to use concurrently.
10: type SafeCounter struct {
11:     v    map[string]int
12:     mux sync.Mutex
13: }
14:
15: // Inc increments the counter for the given key.
16: func (c *SafeCounter) Inc(key string) {
17:     c.mux.Lock()
18:     // Lock so only one goroutine at a time can access the map c.v.
19:     c.v[key]++
20:     c.mux.Unlock()
21: }
22:
23: // Value returns the current value of the counter for the given key.
24: func (c *SafeCounter) Value(key string) int {
25:     c.mux.Lock()
26:     // Lock so only one goroutine at a time can access the map c.v.
27:     defer c.mux.Unlock()
28:     return c.v[key]
29: }
30:
31: func main() {
32:     c := SafeCounter{v: make(map[string]int)}
33:     for i := 0; i < 1000; i++ {
34:         go c.Inc("somekey")
35:     }
36:
37:     time.Sleep(time.Second)
38:     fmt.Println(c.Value("somekey"))
39: }

```

A Go Core/Panic

First the Code

```

1: package main
2:

```

```
3: import "fmt"
4:
5: var mm map[string]int
6:
7: func main() {
8:     fmt.Println("vim-go")
9:     mm["bob"] = 3
10: }
```

Then the bad output.

```
vim-go
panic: assignment to entry in nil map

goroutine 1 [running]:
main.main()
    /Users/philip/go/src/github.com/Univ-Wyo-Education/S22-4010/class/lect/04/go_panic.go:9 +0x71
exit status 2
```