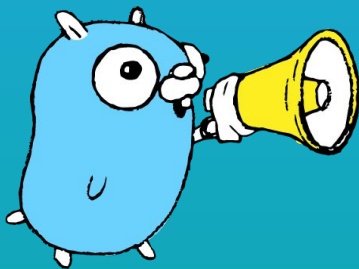




2021-06-01 @ Ocado, Sofia

Go To Production



Go To Production

| | |
|---------------------|----|
| The Road Ahead | 01 |
| Go - tl;dr | 02 |
| Coding with panache | 03 |
| Next time | 04 |

Introduction to Ocado Technology

- We develop the cutting-edge technology that powers the Ocado Smart Platform
- OSP combines advanced capabilities in AI, Robotics, Digital Twins, IoT, Cloud Computing and Big Data
- Some of the world's largest retailers have selected OSP to be the leaders in their market



Join the course slack:



<http://bit.ly/go-ocado>

01.

The Road Ahead

- Duration - 6 weeks, 12 meetings, lots of coding
- Cast - Myself, [@preslavmihaylov](#), + mentors from Ocado
- Goal - Have fun. Get excited about building working software with the course tech stack
- Secondary Goal - Build several interconnected microservices with Go + GRPC. Get as close to a simulated production environment as possible

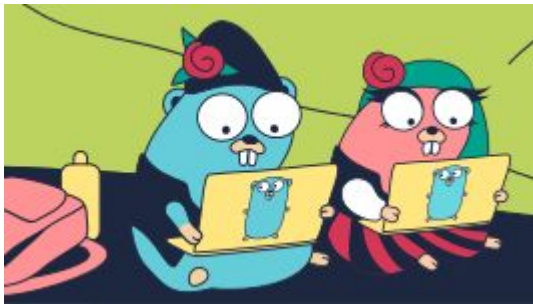
Who is this for?



- Experience
- Motivation
- Collaboration



- Week 1 : We start with the Go Programming Language
- Weeks 2 - 6: Code, code code



Any Questions?

02.

Go - tl;dr

“

Go is a statically typed, compiled programming language ...<snip>...with memory safety, garbage collection, structural typing and CSP-style concurrency.



-- Wikipedia

”



The Go Language



- + Born @ Google, slightly over 10 years ago
- + Simplicity as a language feature
- + Fast compilation, consistency, cross platform
- + Promise of backward compatibility



Why should we learn it



- Productivity
- Tooling
- Ecosystem
- Speed all around
- Shipping to production

03.

Coding with panache

- Install as binary of choice - <https://golang.org/dl/>
- We mainly write code
 - VS Code:
<https://code.visualstudio.com/docs/languages/go>
 - VIM:
<https://pmihaylov.com/vim-for-go-development/>
 - Official Language Server:
<https://github.com/golang/tools/tree/master/gopls>
- How to setup tooling walkthrough:
 - [Mac](#), [Windows](#)

```
package main

import "fmt"

func main() {
    fmt.Println("hello world")
}
```

No prizes for
guessing
what it does

Types, we got 'em



```
// int  
// float  
// bool  
// string  
// ...a bit about pointers
```

Primitives are
the most fun

```
numbersUpToFour := make([]int, 3)
```

```
// The true  
namesToCats := map[string]bool{  
    "Jessie":    true,  
    "Doggo The Dog": false,  
}
```

Important in
every
language

- If statements.
- A fancy for
- Switch for the experts



```
type shape interface {  
    Area() float64  
}  
  
type Square struct {  
    Side float64  
}  
  
func (s Square) Area() float64 {  
    return s.Side * s.Side  
}
```

Show me the
shapes