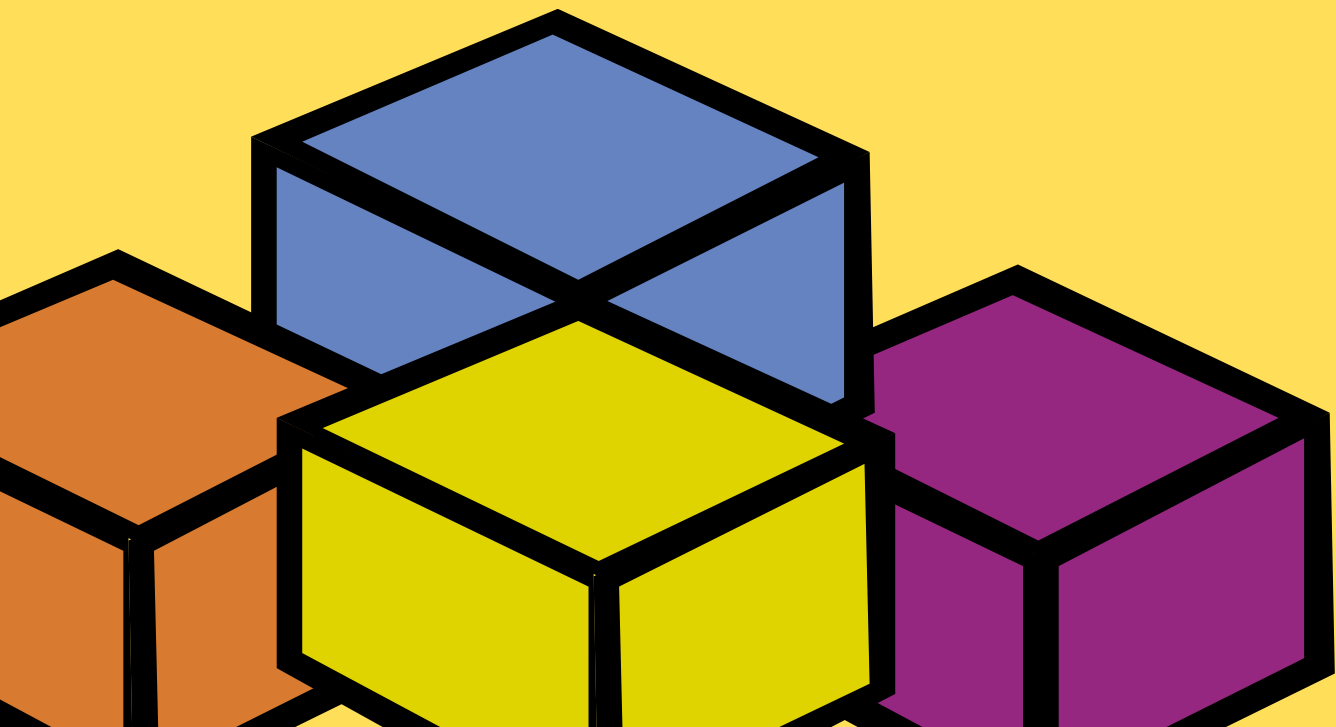


BASIC SYNTAX AND TYPES



WHAT'S A VARIABLE??

??

A variable is a named storage location in memory that holds a value.

var declaration:

```
var salary int = 120000
```

Short declaration:

```
salary := 120000
```



BUILT-IN TYPES

int

```
var age int = 25
```

bool

```
isStudent bool = true
```

float

```
price float32 = 19.99  
pi float64 = 3.14159265359
```

string

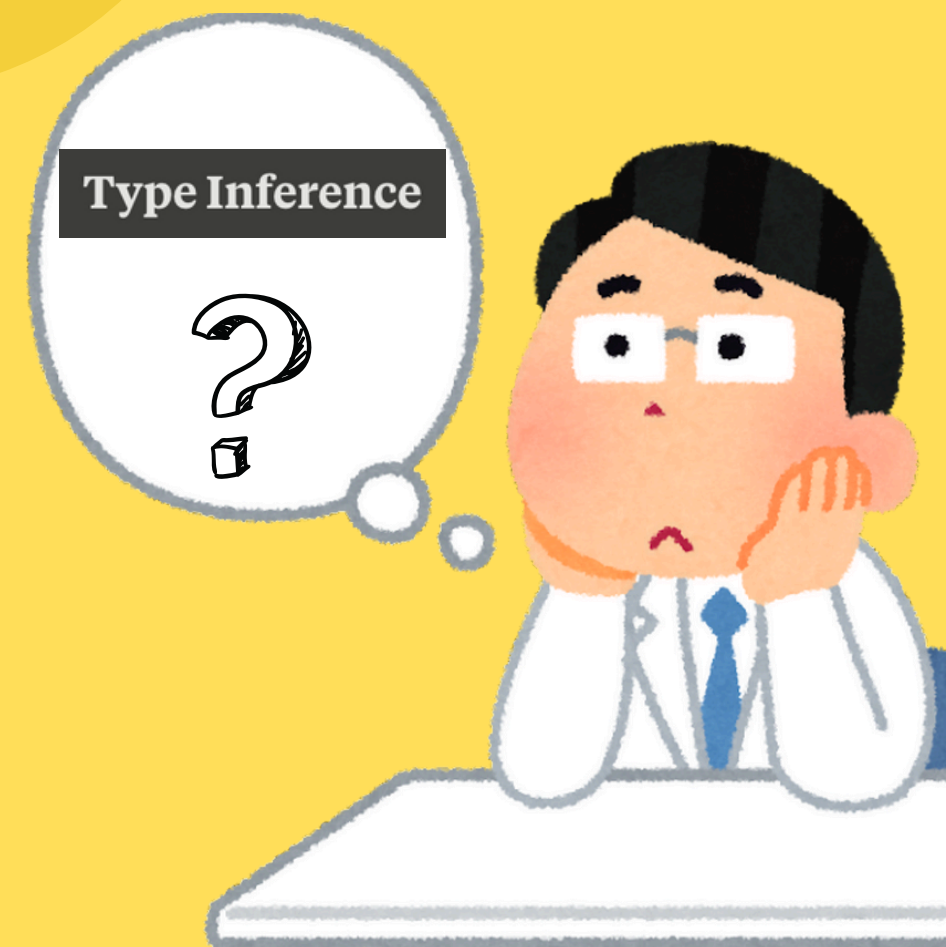
```
// Basic string  
greeting := "Hello, 世界"
```

WHAT'S TYPE INFERENCE ??

GO CAN AUTOMATICALLY DETERMINE THE TYPE OF A VARIABLE BASED ON THE VALUE ASSIGNED:

EXAMPLE

```
name := "Gopher"    // string  
age  := 25           // int  
height := 1.75       // float64
```



ZERO VALUE

**Every type has a zero value;
the default value when a variable is declared but not
initialized:**

- Numeric types: `0`
- String: `""` (empty string)
- Boolean: `false`
- Pointers: `nil`

THANK YOU

