# NAMING THINGS

there are only two hard things in computer science

cache invalidation and

naming things

- Phil Karlton

#### NOT IDIOIVATIC

Unnecessarily verbose

```
func Read(buffer *Buffer, inBuffer []byte) (size int, err error)
   if buffer.empty() {
       buffer.Reset()
   size = copy(
     inBuffer,
     buffer.buffer.offset:])
   buffer offset += size
   return size, nil
```

#### IDIOIVIATIC

#### Concise and idiomatic

```
func Read(b *Buffer, p []byte) (n int, err error) {
    if b.empty() {
        b.Reset()
    n = copy(p, b.buf[b.off:])
    b \cdot off += n
    return n, nil
```

### ABBREVIATIONS

Common abbreviations used in Go

```
var s string
                        // string
var i int
                        // index
var num int
                        // number
var msg string
                        // message
var v string
                        // value
var val string
                        // value
var fv string
                        // flag value
                        // error value
var err error
var args []string
                        // arguments
var seen bool
                         // has seen?
                         // parsing ok?
var parsed bool
```

### ABBREVIATIONS

Common abbreviations used in Go

```
var buf []byte
                         // buffer
var off int
                         // offset
var op int
                         // operation
var opRead int
                         // read operation
var l int
                         // length
var n int
                         // number or number of
var m int
                         // another number
var c int
                         // capacity
var c int
                         // character
var a int
                         // array
                            rune
var sep string
                         // separator
```

### ABBREVIATIONS

Common abbreviations used in Go

```
var src int
                        // source
var dst int
                        // destination
                        // byte
var b byte
var b []byte
                        // buffer
var buf []byte
                        // buffer
var w io.Writer
                     // writer
var r io Reader
                        // reader
                        // position
var pos int
...list goes on and on...
```

## Why naming is important?

\*\*\*
Critical for Readability = Maintainability

\*\*\*

# ★★★ Use the first few letters of the words ★★★

var fv string // flag value

# ★★★ Use fewer letters in smaller scopes ★★★

var bytesRead int // number of bytes read



var n int // number of bytes read



# ★★★ Use the complete words in larger scopes ★★★

package file
var fileClosed bool

# ★★★ Use mixedCaps like this ★★★

type PlayerScore struct

# \*\* Use all capitals for acronyms

var localAPI string

var localApi string







player.PlayerScore //
player.Score //

#### \*\*

# Do not use under\_scores oR LIKE\_THIS



const MAX\_TIME int

const MaxTime int

const N int

