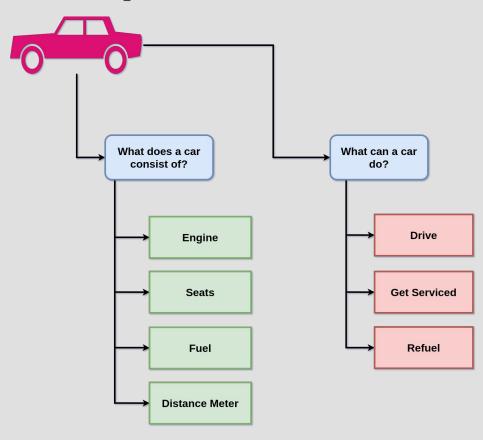
Getting Started with Google GoLang

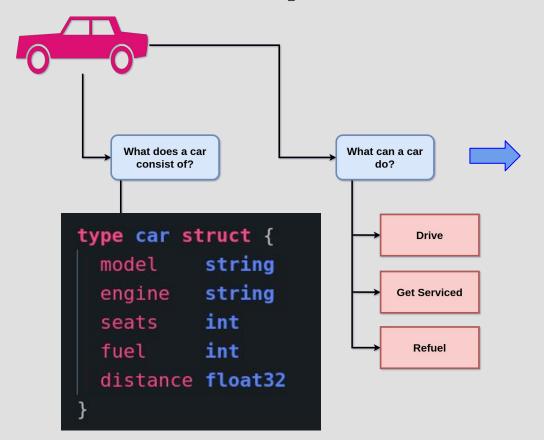
Week 2 - Receivers and Interfaces



Custom Types



How to represent this in code?



```
func (c car) drive() {
 for c.fuel > 0 {
   c.fuel -= 1
   c.distance += 12.5
func (c car) service() int {
 if c.engine == "v8" {
    return 2000
   else {
    return 1000
func (c car) refuel(fuel int) {
 c.fuel += fuel
```

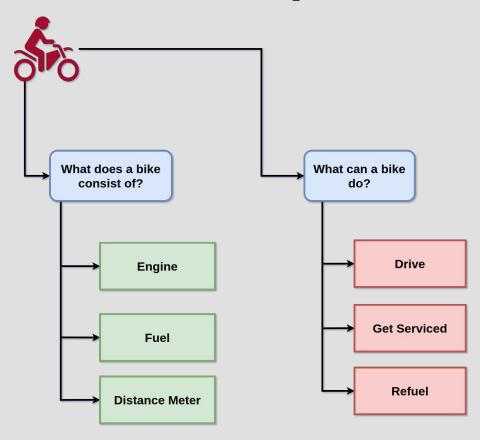
The Analogy

- Custom types represent real world objects.
- Receivers (methods)
 define things the type
 (object) can do.

Car (Real Object) Components of a Car (Struct Variables) **Functions of a Car**

(Receiver Functions)

Another Custom Type

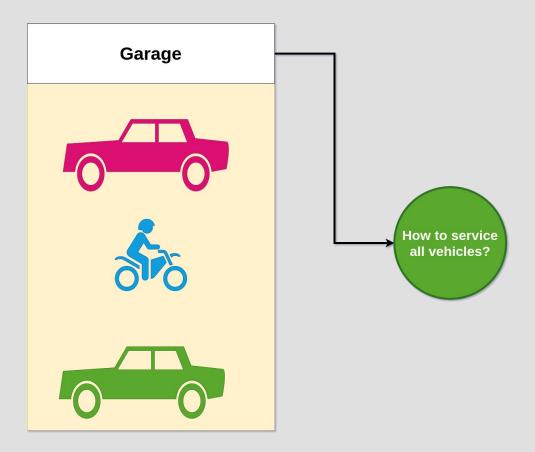


Bike, in code

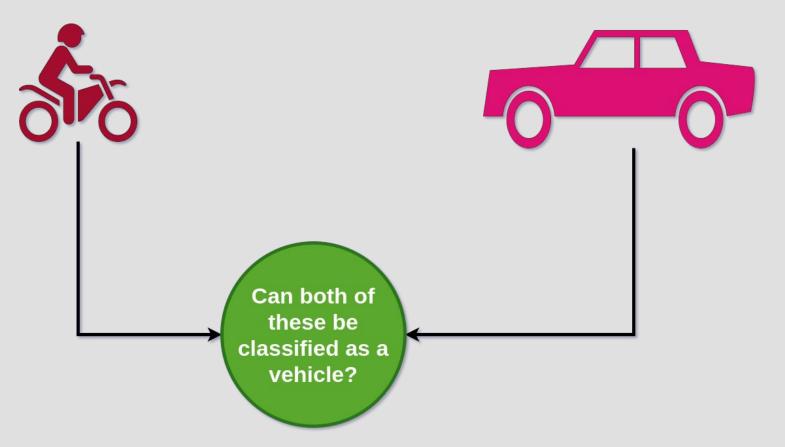
```
What does a bike
                                    What can a bike
          consist of?
                                        do?
type bike struct {
                                             Drive
  model
             string
  engine
             string
                                           Get Serviced
  fuel int
  distance float32
                                             Refuel
```

```
func (b bike) drive() {
 for b.fuel > 0 {
   b.fuel -= 1
   b.distance += 12.5
func (b bike) service() int {
 if b.engine == "b1" {
   return 500
   else {
   return 200
func (b bike) refuel(fuel int) {
 b.fuel += fuel
```

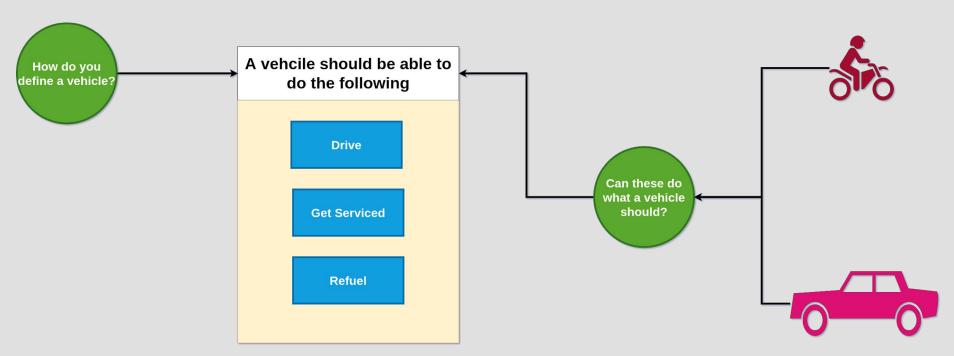
Problem



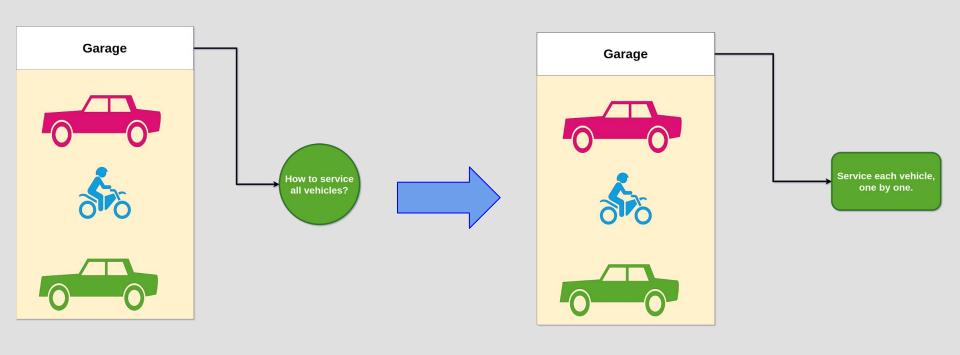
Let's go back a bit



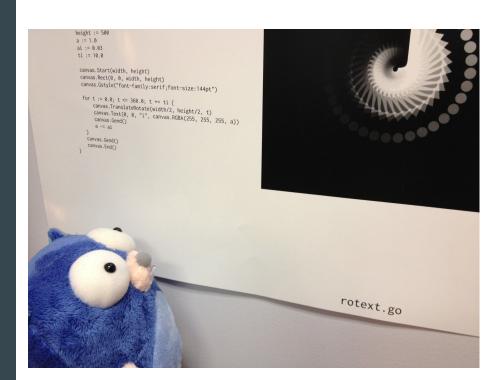
Defining "Vehicle"

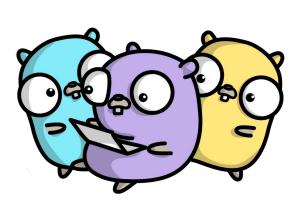


The Solution



Let's now go take a look at code





Thank You!

Source Code and Slides available at: github.com/Gituser143/PESU-IO-Go