

# SPEAK THE LANGUAGE THE DOMAIN LANGUAGE!



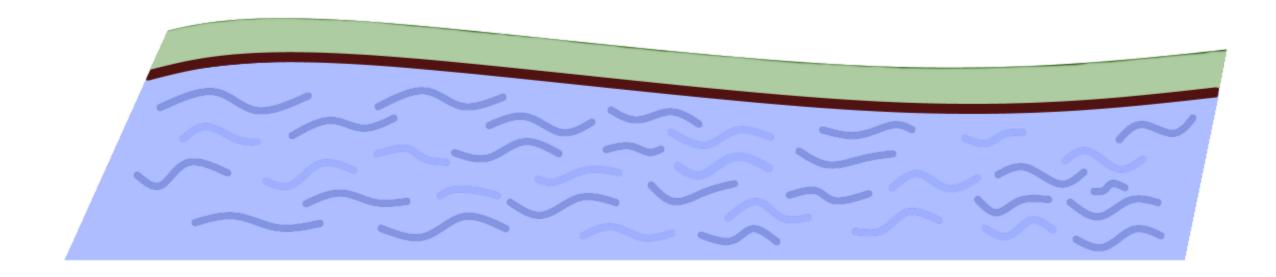
#### **AUTHOR AT PLURALSIGHT**

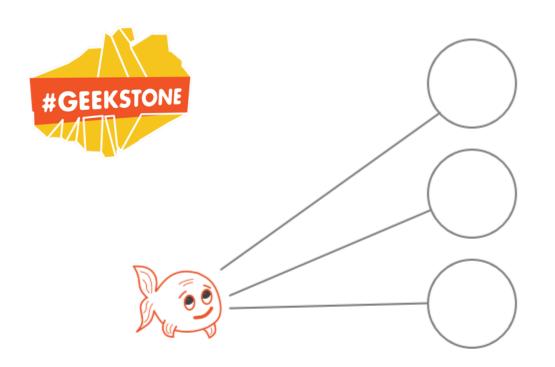
PUBLISHING TUTORIALS AT YOUTUBE https://youtube.com/@zoran-horvat

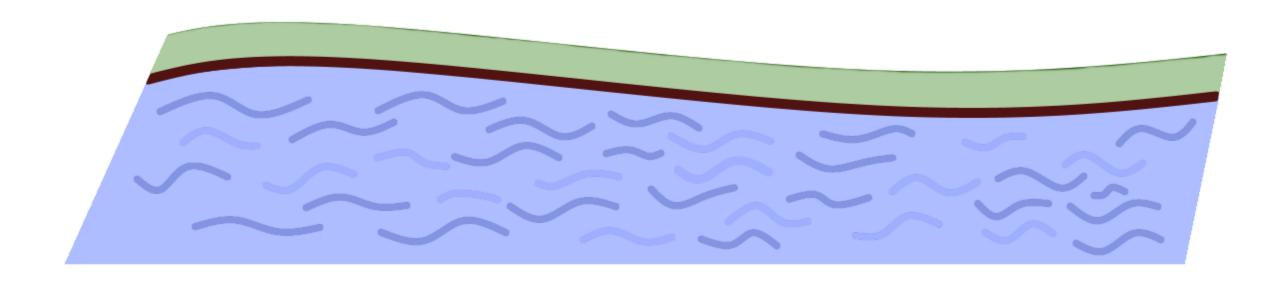


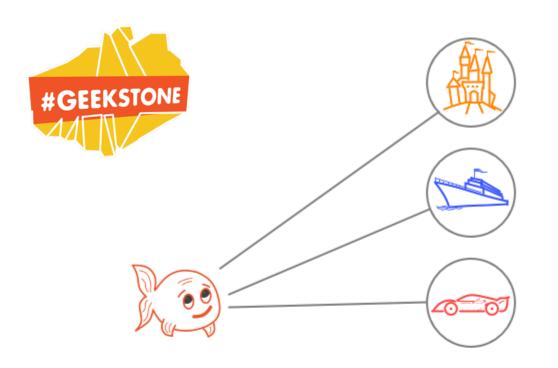


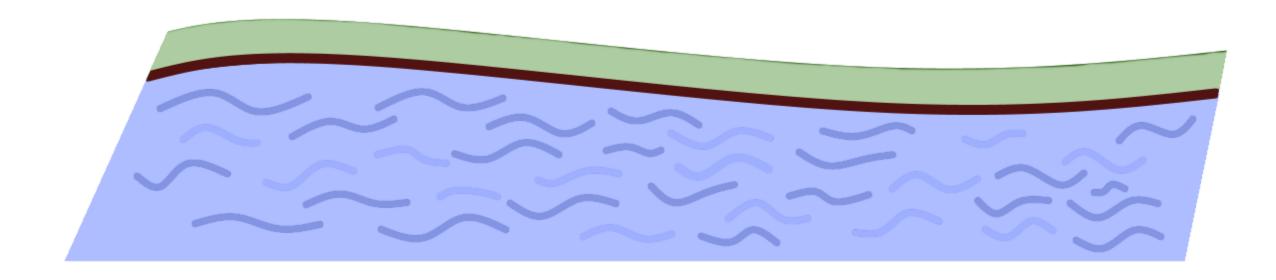








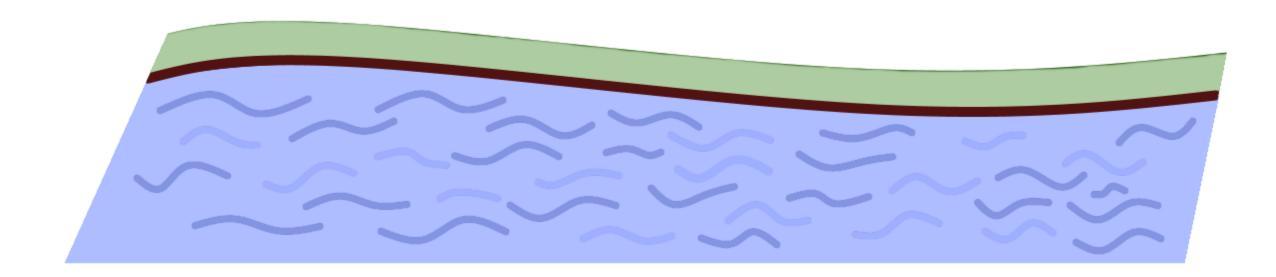






#### Fish: Make one wish

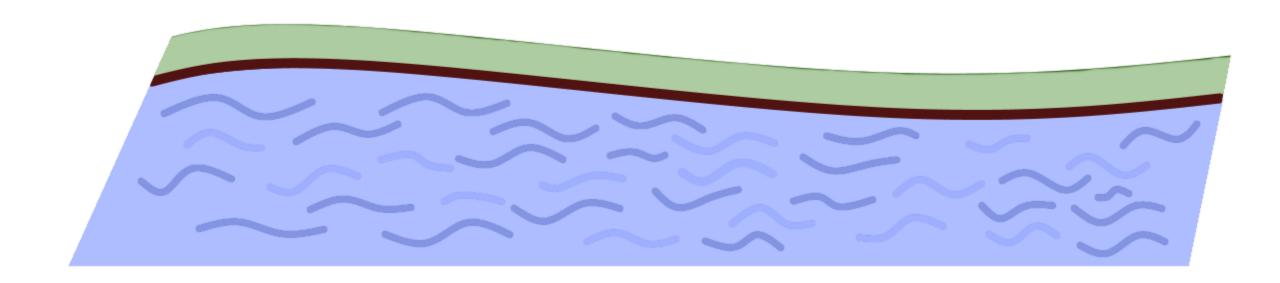
☐ I AGREE WITH THE TERMS AND CONDITIONS





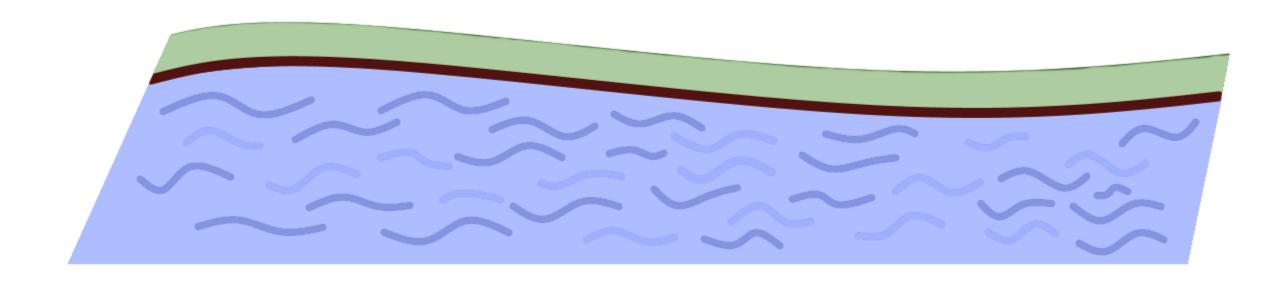
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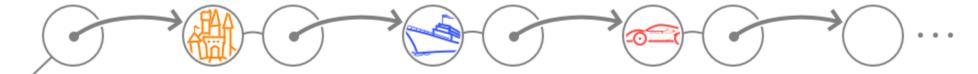


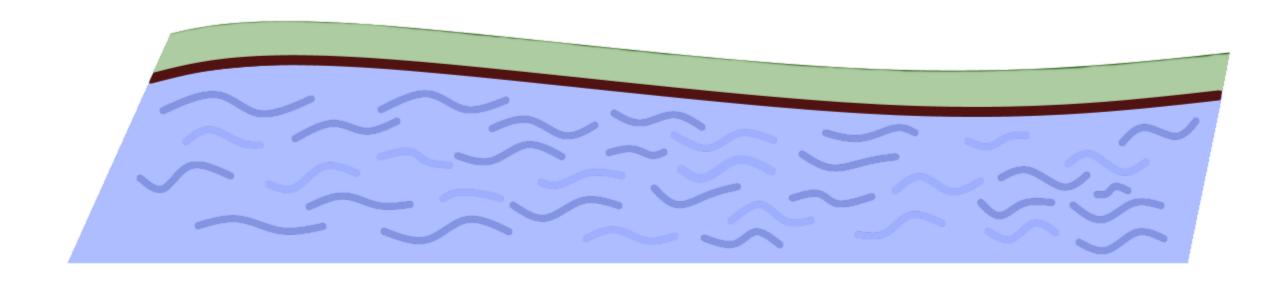






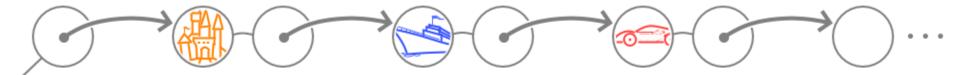


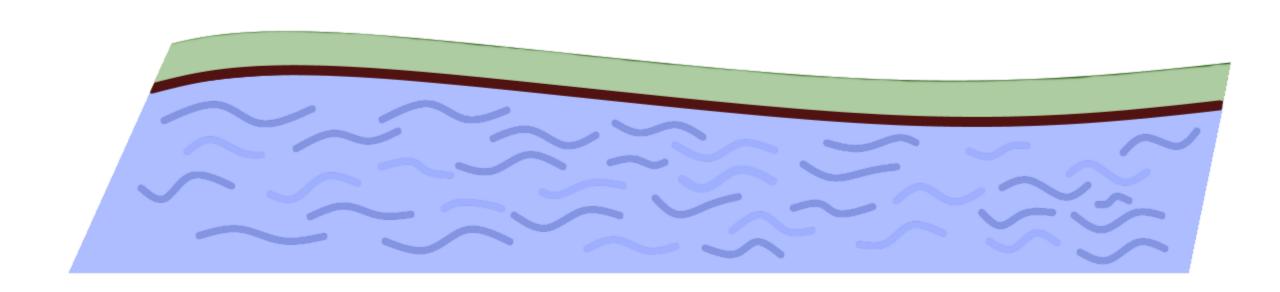






## A LISP FISH



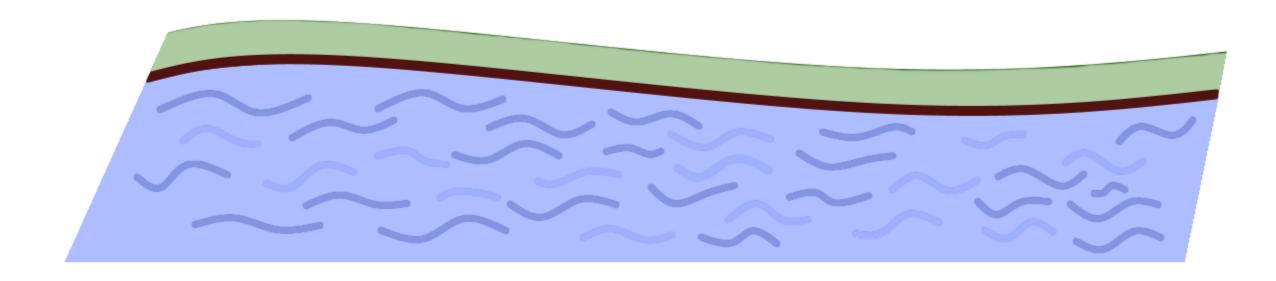




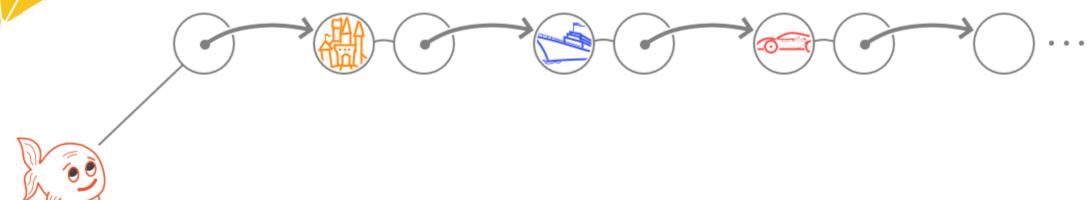


Programmer: I wish to catch you twice tomorrow

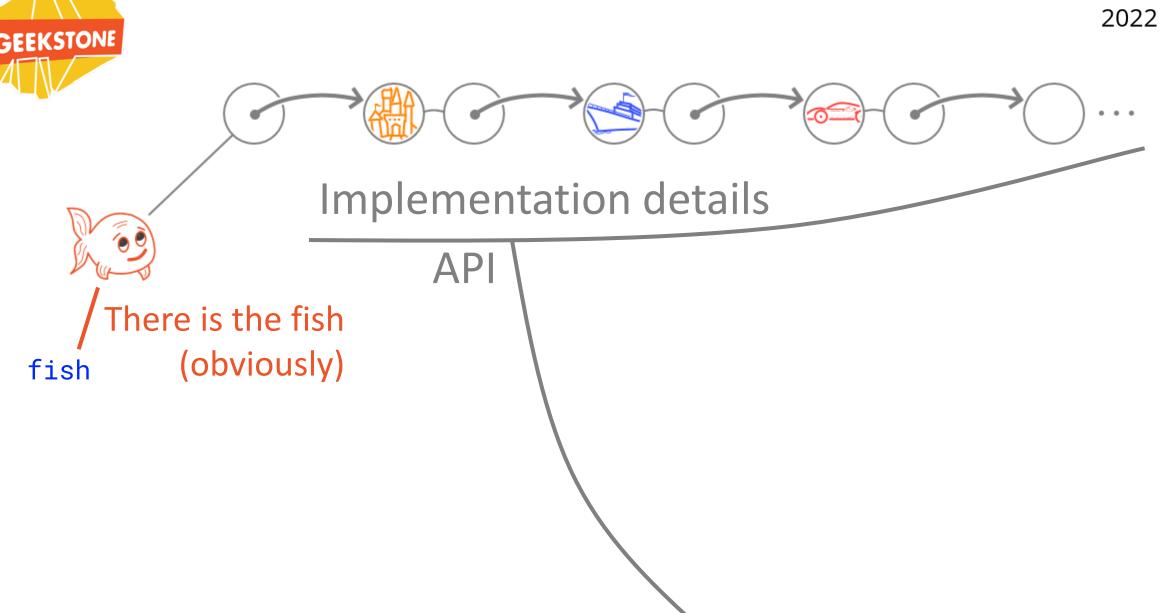
Business guy: Did I just see you release the critter!? @#?&!%



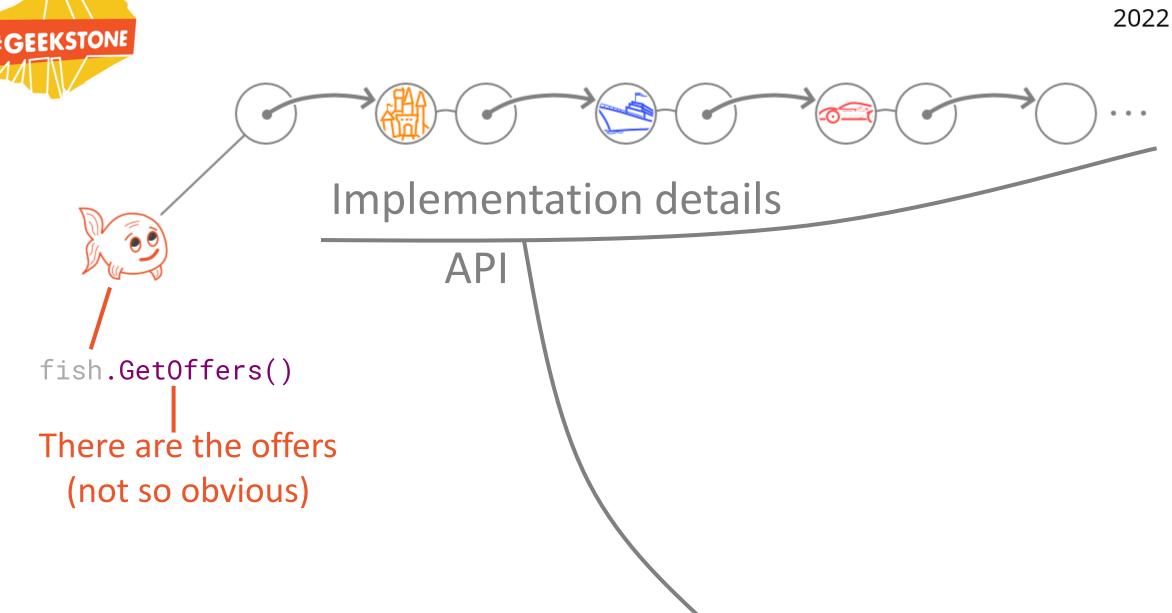




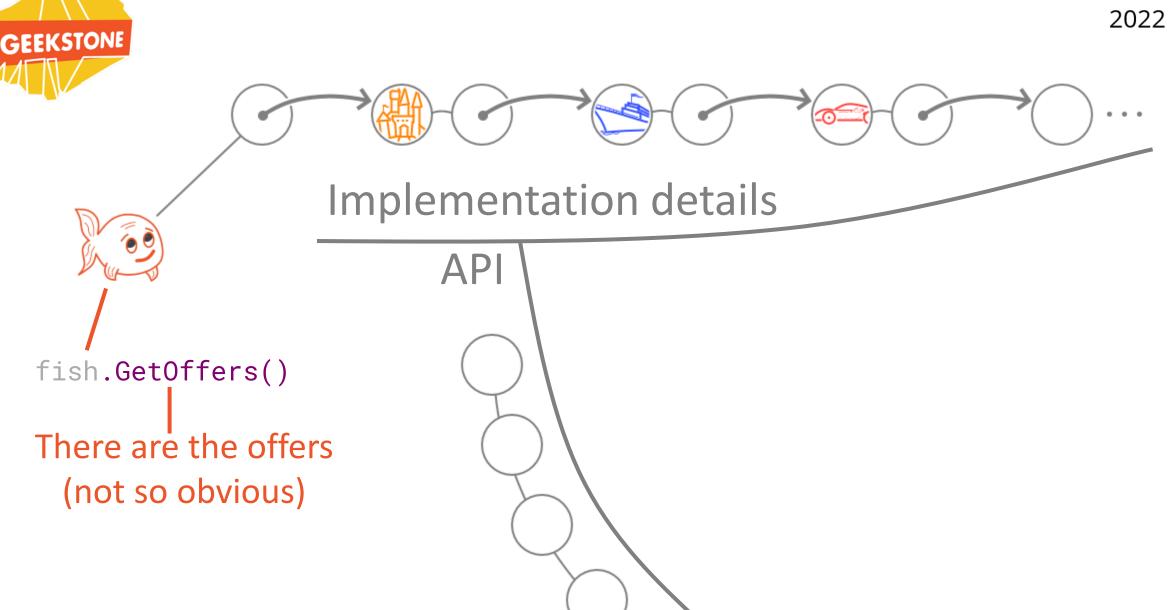




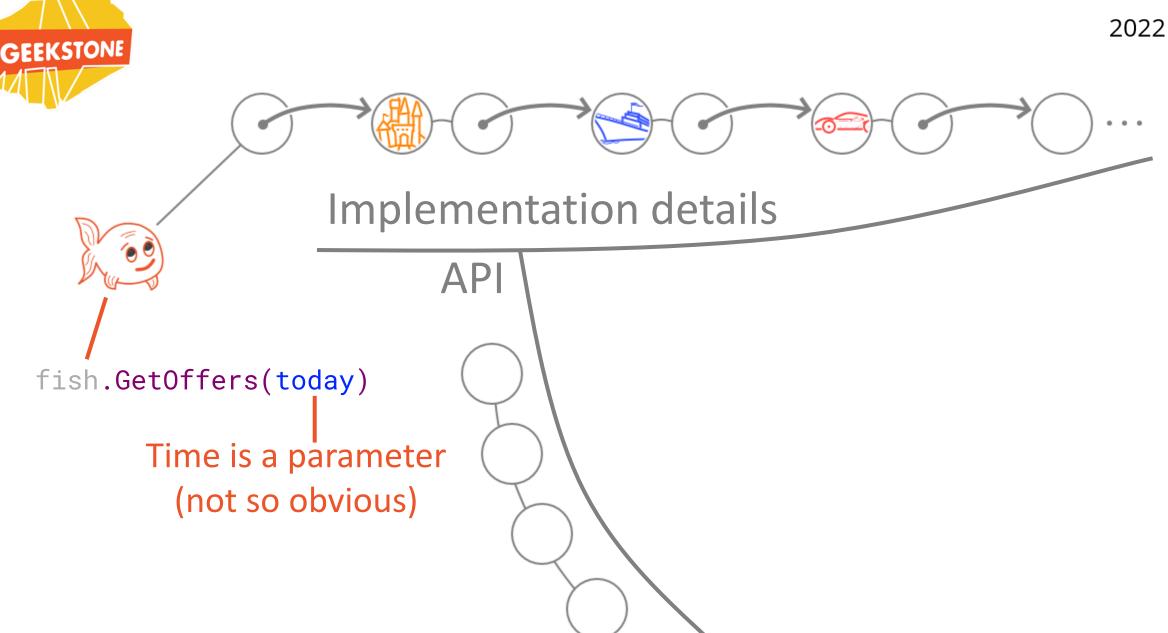




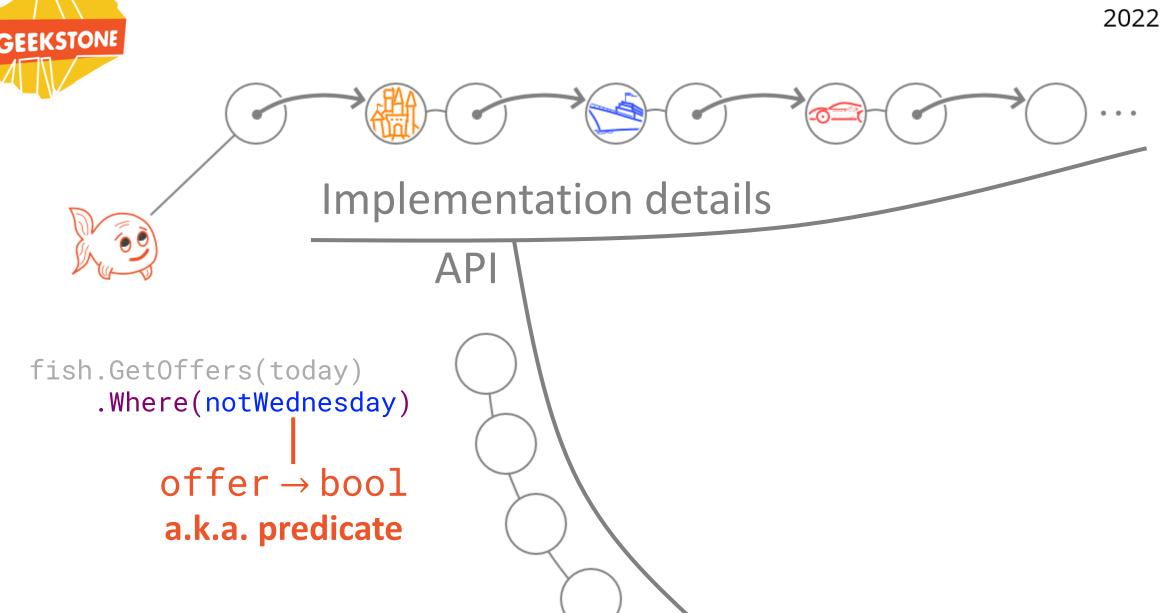




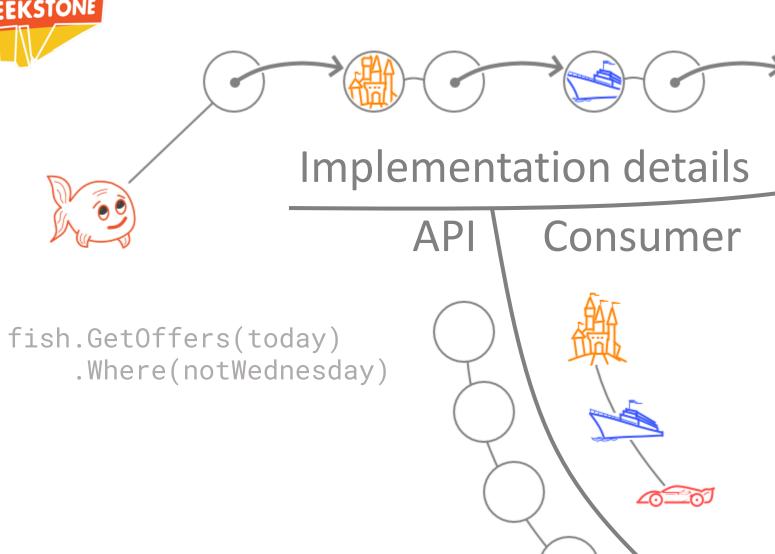




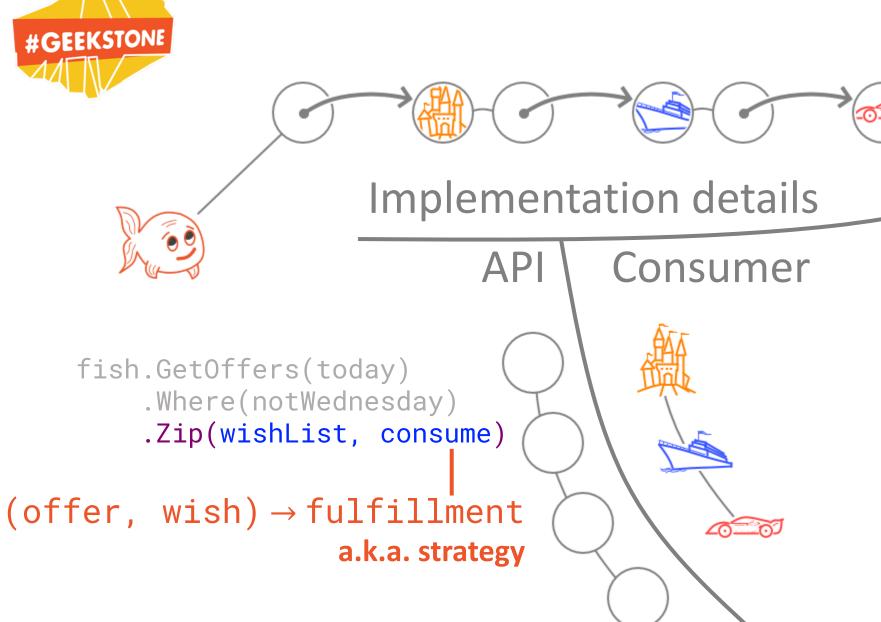




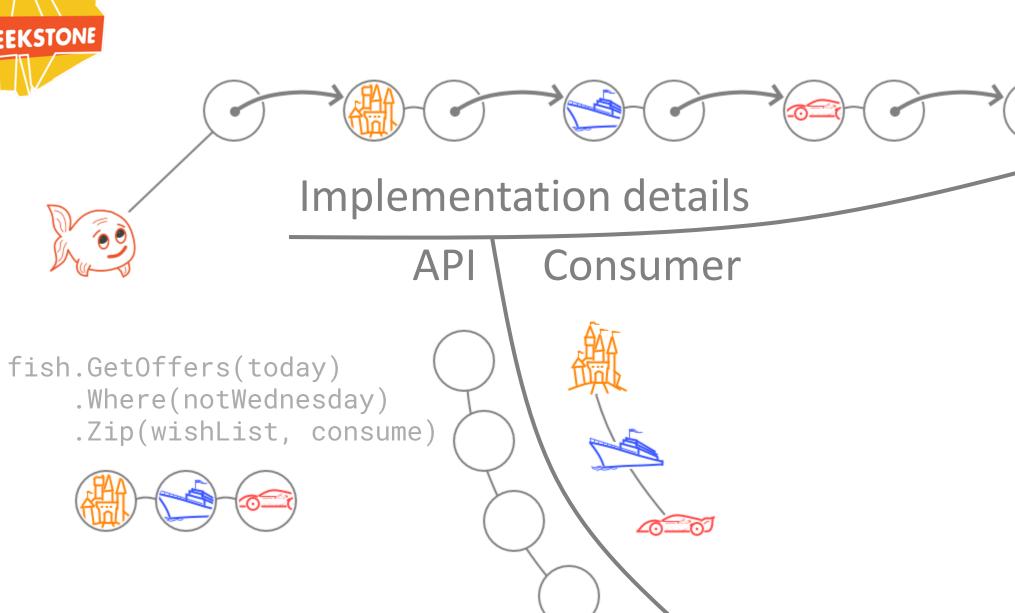












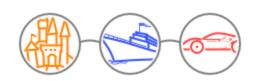


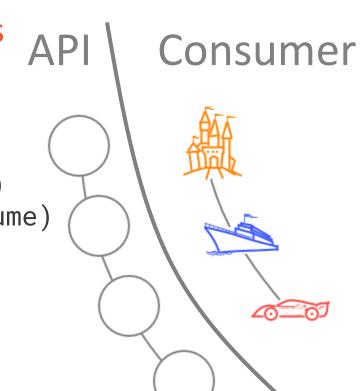
Language constructs are not domain constructs (should be obvious)

fish.GetOffers(today)

.Where(notWednesday)

.Zip(wishList, consume)

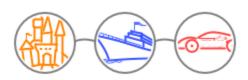


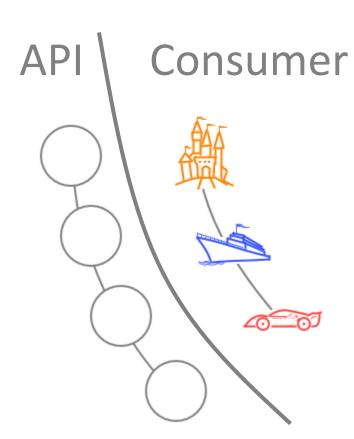




Language constructs are not domain constructs (should be obvious)

fish.GetOffers(today)
 .Except(onWednesday)
 .Fullfill(wishList)





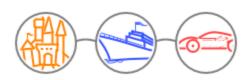


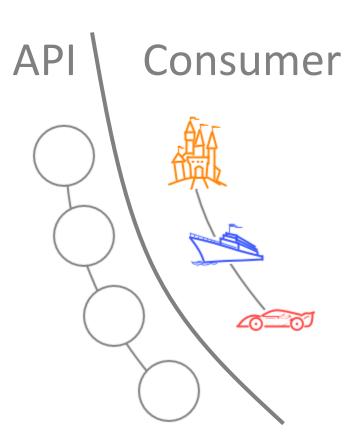
F# Function application (in functional languages)

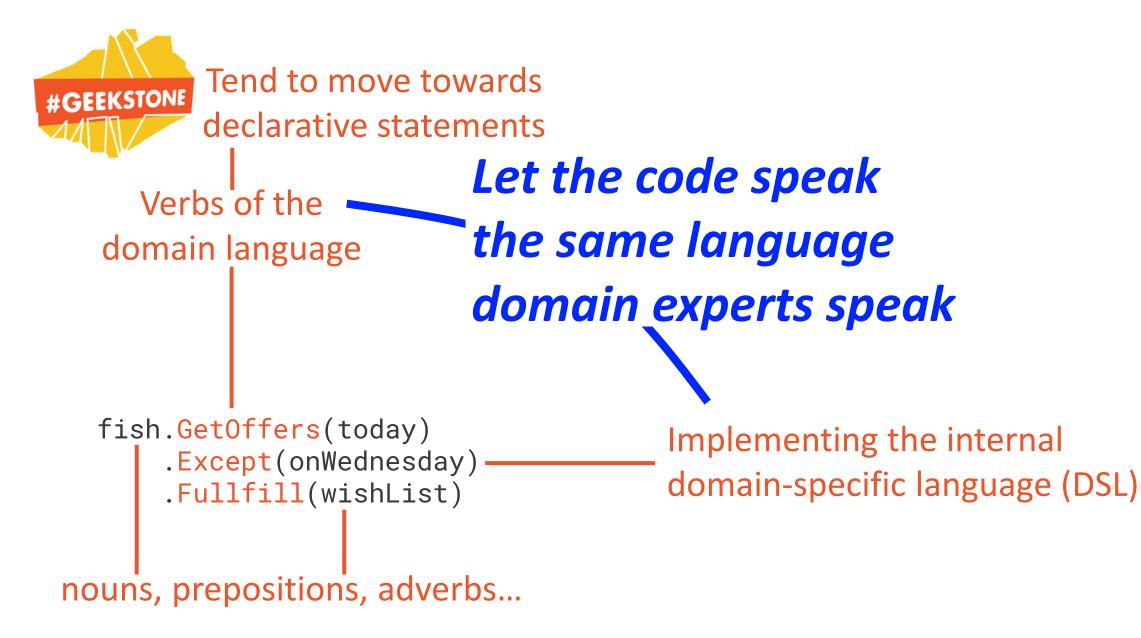
Java Transparent stream proxy + interface default methods

.NET Extension methods

fish.GetOffers(today)
 .Except(onWednesday)
 .Fullfill(wishList)





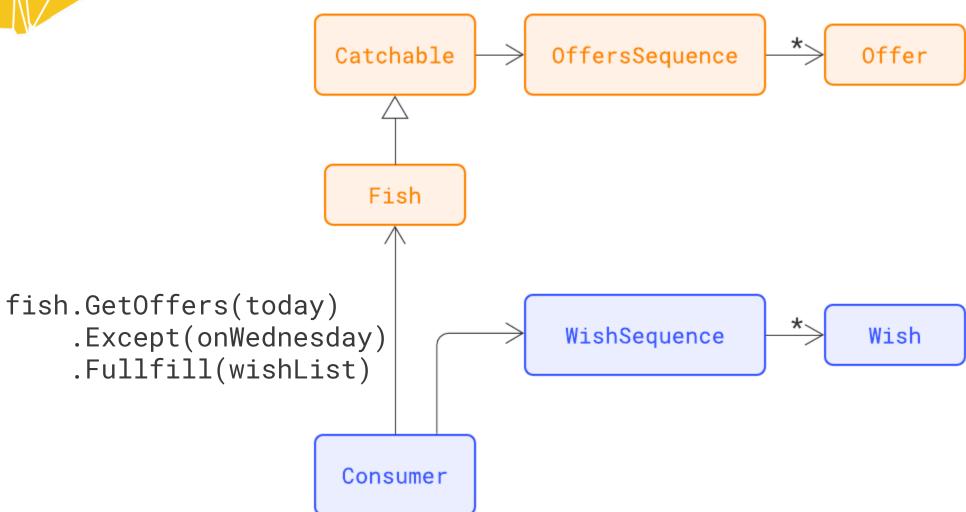




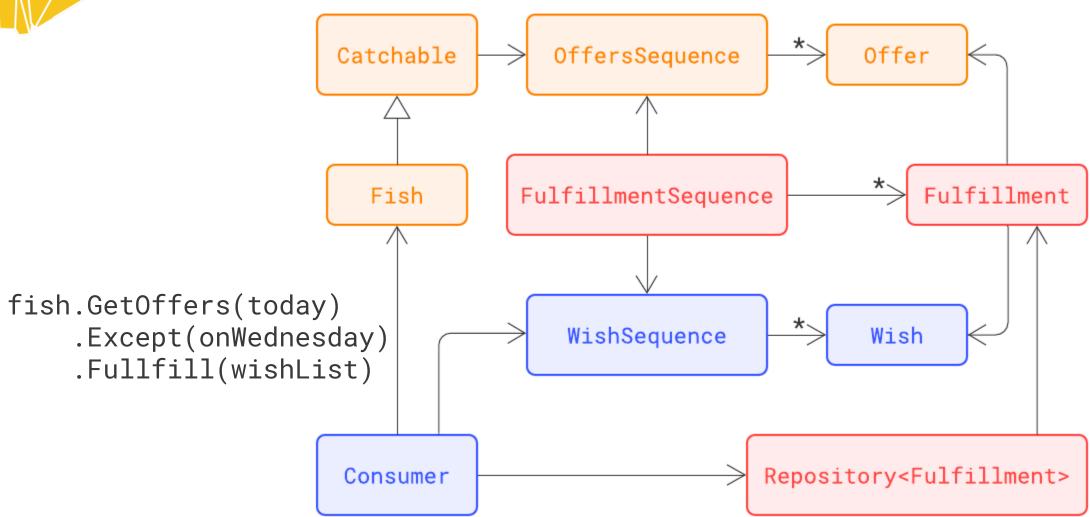


fish.GetOffers(today)
 .Except(onWednesday)
 .Fullfill(wishList)







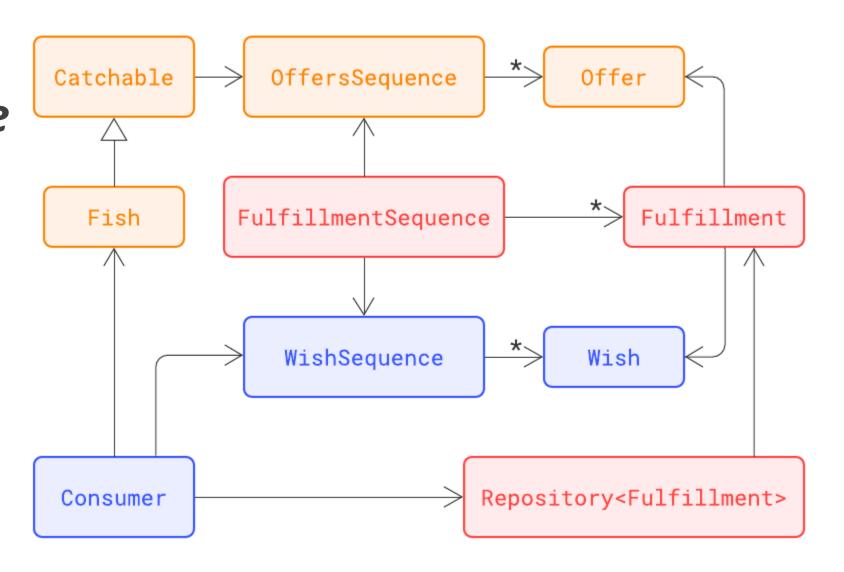




# Objects create other objects

Objects are composable

Functions are composable





There is the inventory Inventory contains parts

Each part is tracked by a unique SKU



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Parts are purchased from other companies (vendors)

Vendors maintain their own SKUs for same parts

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Company encodes SKU into a Code 128 barcode (configurable)

Barcodes printed on sticky labels

Vendors encode SKU into a barcode

Each vendor may use a different barcode format



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Incoming items subjected to a barcode scanner

Incoming barcodes read off an image and stored

Inventory is tracking quantity of each item

Incoming items arrive with a quantity

The same item comes from multiple vendors

A vendor can change barcode technology

There can be multiple incoming barcode technologies used

Inventory can report low reserves on any item

There is a planner which tracks expenditure of parts

There are specifications of products built from parts

Specification consists of assembly steps

Each assembly step consumes one part

Specification exposes list of required parts with quantities

Inventory can verify a specification against current quantities



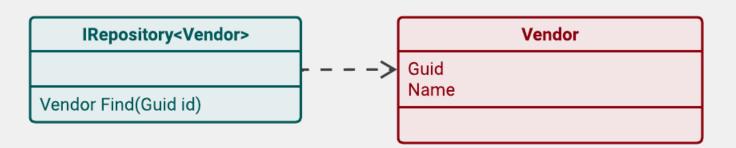
vendorRepo

IRepository<Vendor>

Vendor Find(Guid id)

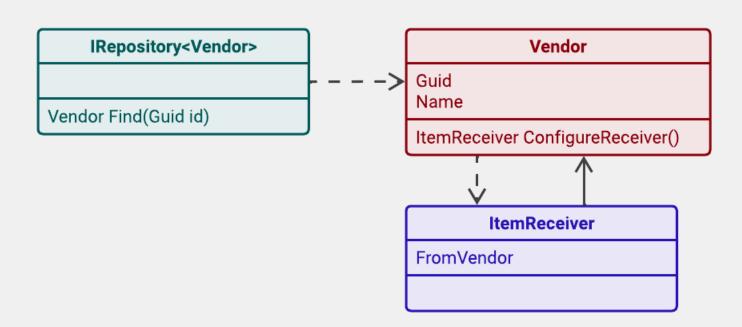


vendorRepo

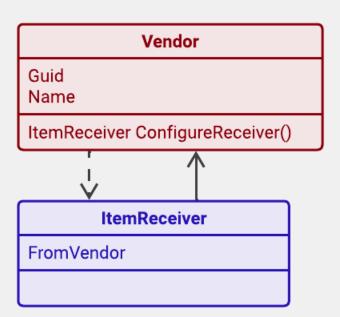




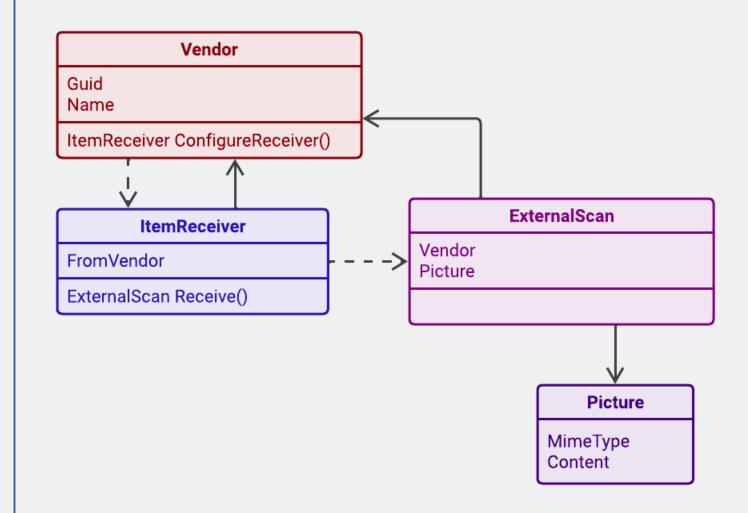
#### vendorRepo



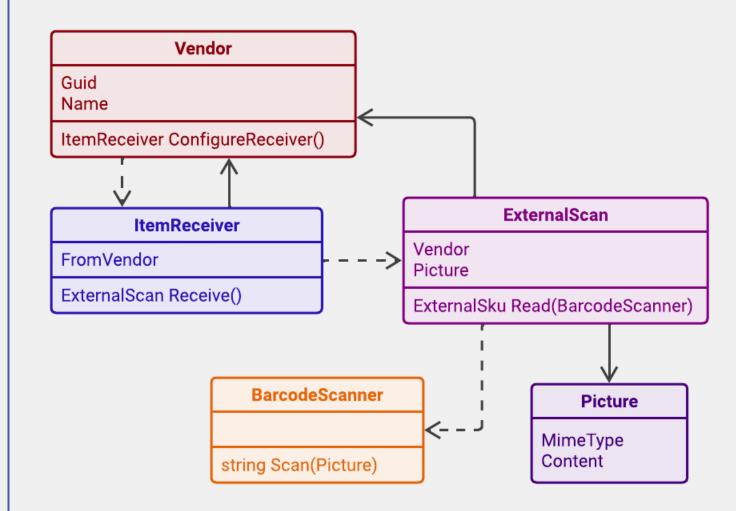




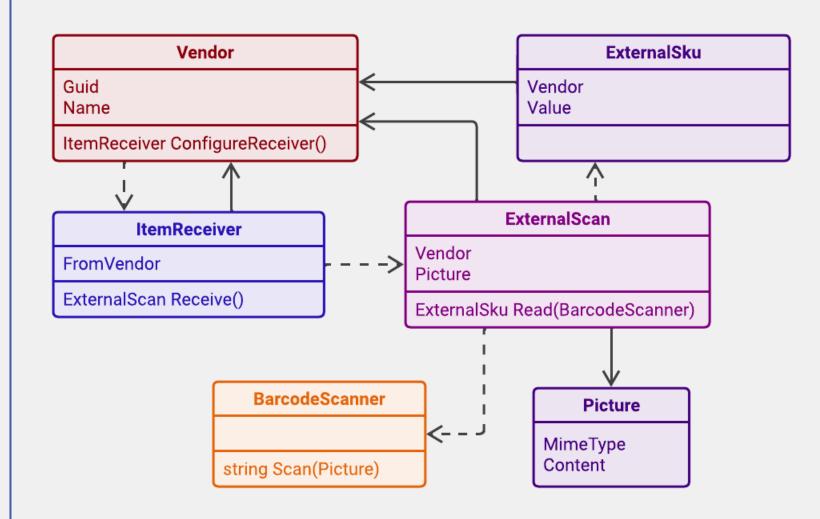




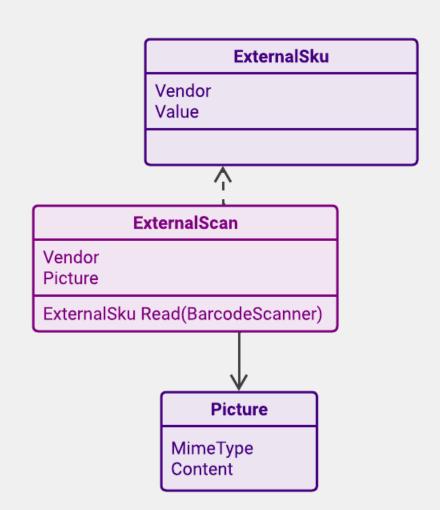














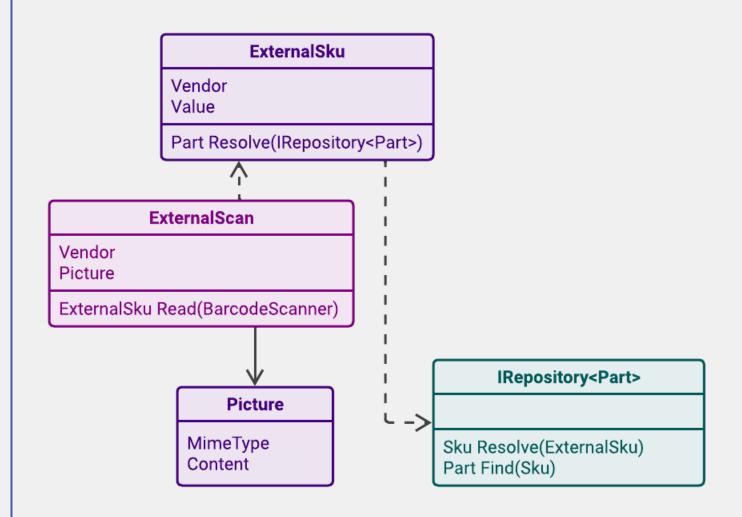
```
.Find(vendor)
    // Vendor

.ConfigureReceiver()
    // ItemReceiver

.Receive()
    // ExternalScan

.Read(scanner)
    // ExternalSku

.Resolve(partsRepo)
```





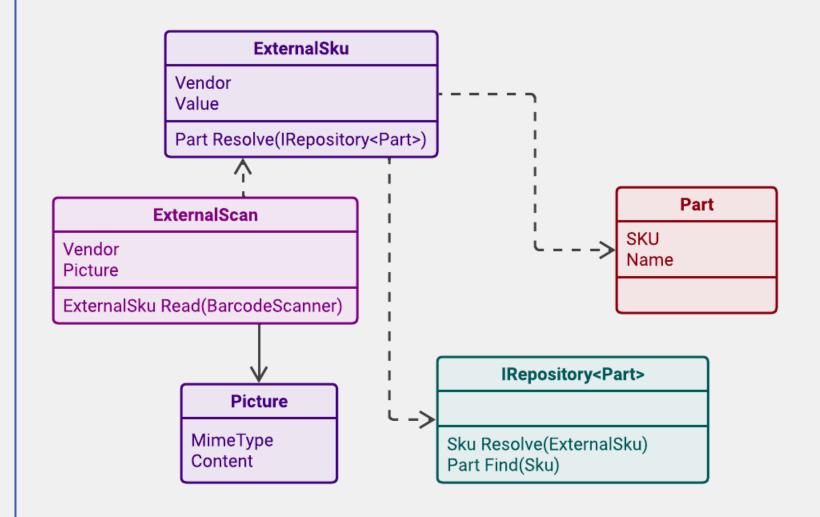
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.Find(vendor)
    // Vendor

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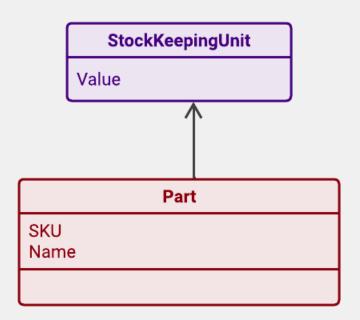
.Read(scanner)
    // ExternalSku

.Resolve(partsRepo)
```



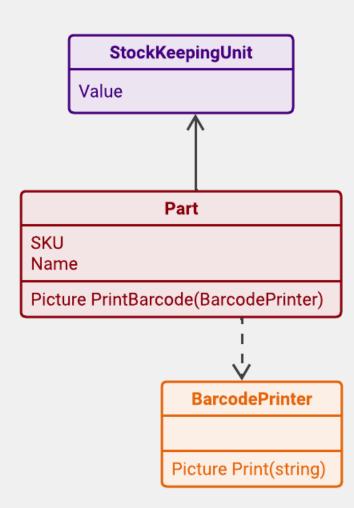


```
.Find(vendor)
       // Vendor
.ConfigureReceiver()
       // ItemReceiver
.Receive()
       // ExternalScan
.Read(scanner)
       // ExternalSku
.Resolve(partsRepo)
       // Part
```





```
var label = vendorRepo
  .Find(vendor)
         // Vendor
  .ConfigureReceiver()
         // ItemReceiver
  .Receive()
         // ExternalScan
  .Read(scanner)
         // ExternalSku
  .Resolve(partsRepo)
         // Part
  .PrintBarcode(printer);
         // Picture
```





```
var label = vendorRepo
   .Find(vendor)
   .ConfigureReceiver()
   .Receive()
   .Read(scanner)
   .Resolve(partsRepo)
   .PrintBarcode(printer);
```

