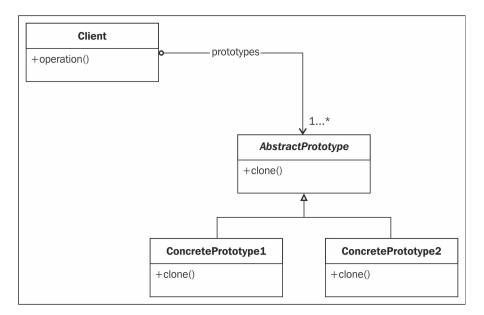
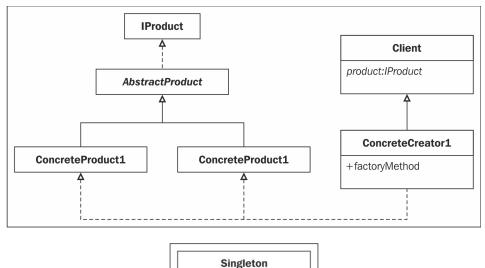
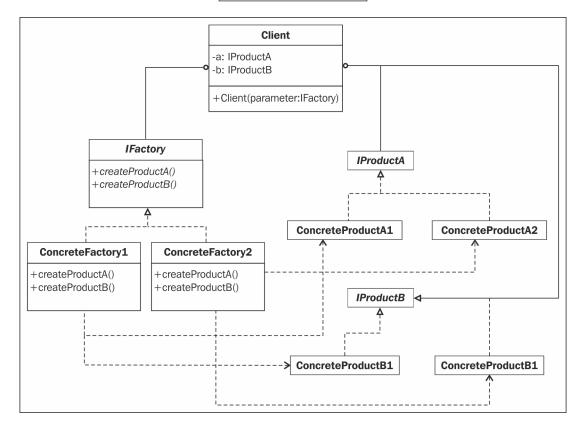
Chapter 1: Creational Patterns







Singleton -instance : Singleton +instance()

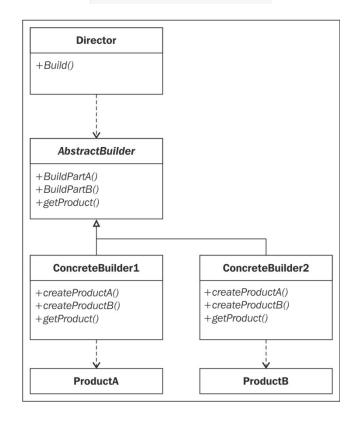


Watch38mmFactory
MilaneseBand
r 1,0 g 1,0 b 0,0 a 1,0
"SM"
"Milanese"

GoldDial
"Gold"
"38mm"

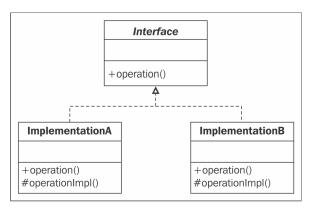
Watch42mmFactory
LinkBracelet
r 1,0 g 1,0 b 0,0 a 1,0
"ML"
"LinkBracelet"

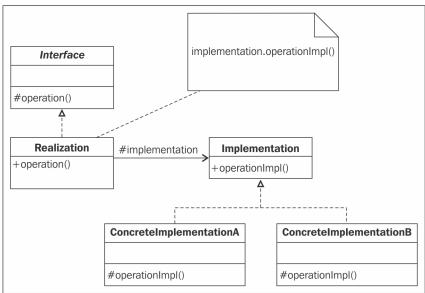
GoldDial
"Gold"
"42mm"

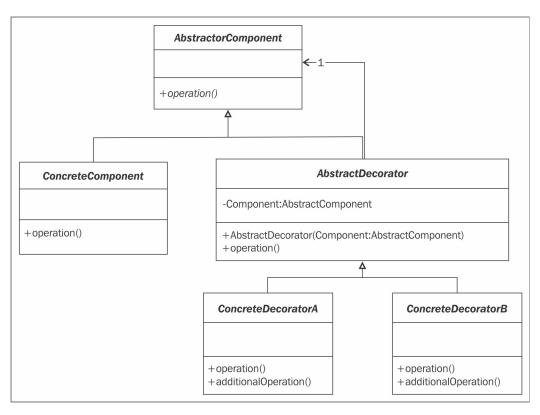


Watch r 1,0 g 1,0 b 0,0 a 1,0 "Milanese" r 1,0 g 1,0 b 0,0 a 1,0 "SportBand" "ML" "ML" "Gold" "42mm" "42mm" "Aluminium" Watch BuilderGoldMilanese38mmWatch Watch Director Watch Watch r 1,0 g 1,0 b 0,0 a 1,0 "SportBand" r 1,0 g 1,0 b 0,0 a 1,0 "Milanese" "SM" "SM" "Aluminium" "38mm" "38mm" "Gold"

Chapter 2: Structural Patterns – Decorator, Proxy, and Bridge





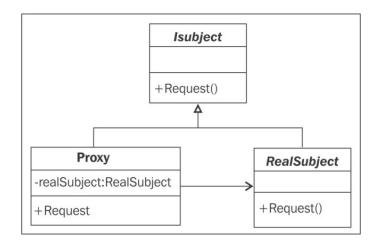


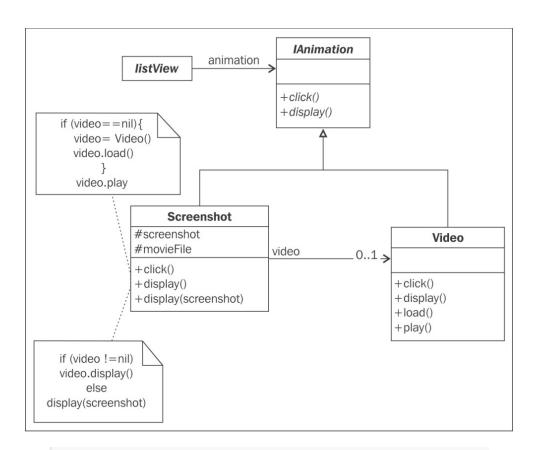
"rectangle with Normal Angles\n"
"drawing Shape: Rectangle"

"square with Normal Angles\n"
"drawing Shape: Square"

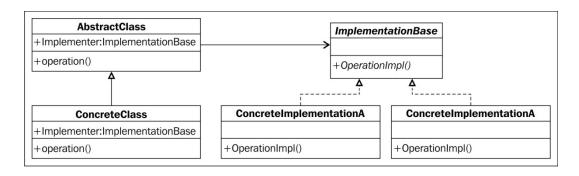
"Rounded border rectangle\n"
"drawing Shape: Rectangle,Corners are rounded"

"drawing Shape: Square,Corners are rounded"



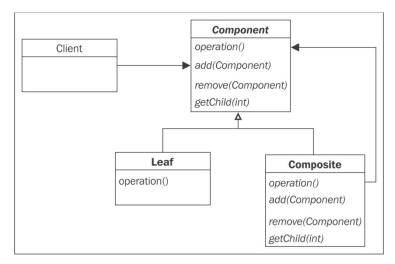


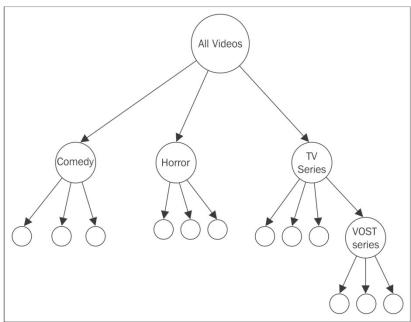
ScreenShot
"Display the screenshot of the video"
"Loading the video"
"Display the video"

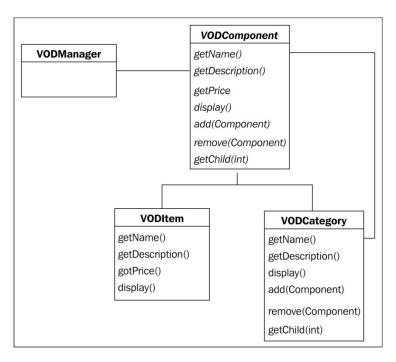


```
class TV: ImplementationBase {
  func run() {
   print("tv turned on");
                                                           "tv turned on\n"
}
/* Implementation Classes 2 */
class Light: ImplementationBase {
  func run() {
    print("light turned on")
                                                           "light turned on\n"
}
let tvRemoteControl = RemoteControl(impl: TV())
                                                           RemoteControl
tvRemoteControl.turnOn()
                                                           RemoteControl
let lightRemoteControl = RemoteControl(impl: Light())
                                                           RemoteControl
lightRemoteControl.turnOn()
                                                           RemoteControl
```

Chapter 3: Structural Patterns – Composite and Flyweight







```
override func remove(vodComponent: VODComponent) {
      83
              vodComponents.removeAll()
M
                       Void removeAll()
М
                       Void removeAll(keepCapacity: Bool)
M
                    Element removeAtIndex(index: Int)
M
    Self.Generator.Element removeFirst()
M
                       Void removeFirst(n: Int)
M
                    Element removeLast()
М
                       Void removeRange(subRange: Range<Self.Index>)
Remove all elements.
```

```
override func display() -> String {
63
         return " \(name!), \(price!), ---- \(description!)"
64
                                                                                 (12 times)
65
       override func display() -> String {
  var text = " \((name!), \((description!) \r\n\)
99
100
                                                                                 (5 times)
101
         for e in vodComponents{
102
              text += "\r\n\(e.display()) \r\n"
                                                                                 (16 times)
         }
103
104
         return text
                                                                                 (5 times)
105
```

All VOD, All vod components

Horror, Horror movies category

Scream, 9.99, ---- Scream movie

Paranormal Activity, 9.99, ---- Paranormal Activity movie

Blair Witch Project, 9.99, ---- Blair Witch movie

TV Series, TV Series category

Game of thrones S1E1, 1.99, ---- Game of thrones Saison 1 episode 1

Deadwood, 1.99, ---- Deadwood Saison 1 episode 1

Breaking Bad, 1.99, ---- Breaking Bad Saison 1 Episode 1

VOSTSeries, VOST TV Series sub category

Doc Martin, 1.99, ---- Doc Martin French serie Saison 1 Episode 1

Camping Paradis, 1.99, ---- Camping Paradis French serie Saison 1 Episode 1

Comedy, Comedy category

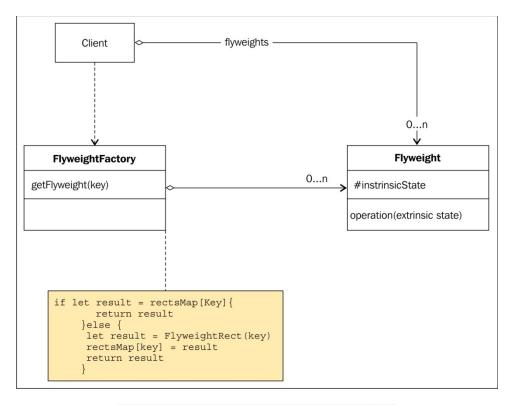
Very Bad Trip, 9.99, ---- Very Bad Trip Movie

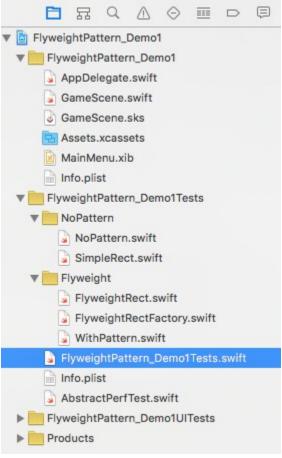
Hot Chick, 9.99, ---- Hot Chick Movie

Step Brothers, 9.99, ---- Step Brothers Movie

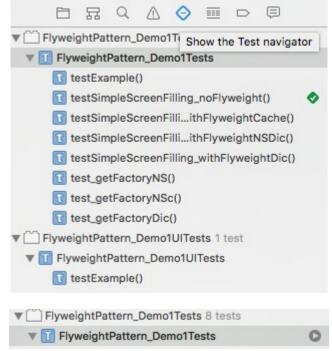
Bad teacher, 9.99, ---- Bad Teacher Movie

•••



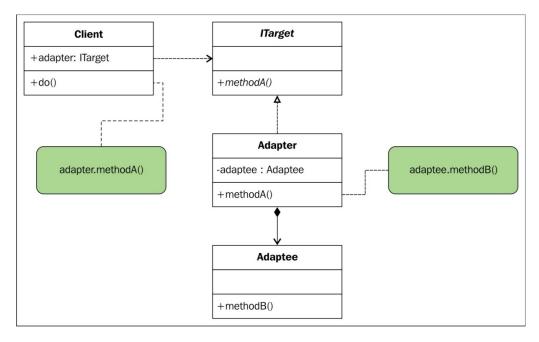


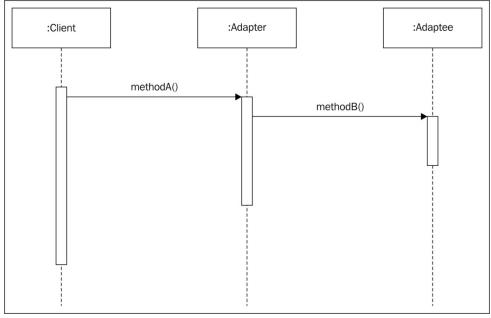
```
32
        //TEST without applying the pattern
○ 33
        func testSimpleScreenFilling_noFlyweight() {
            // This is an example of a performance test case.
 35
            // it is executed 10 times by default to get an average
 36
 37
            self.measureBlock() {
              let noPattern = NoPattern()
 38
 39
              noPattern.run()
          }
 40
        }
 41
 42
       200000 rects generated
       200000 rects generated
      self.measureBlock() {
        let noPattern = NoPattern()
        noPattern.run()
                                                  Time: 0.804 sec (5% STDEV) (2)
}
                    ▼ ☐ FlyweightPattern_Demo1T Show the Test navigator
               ▼ T FlyweightPattern_Demo1Tests
                   testExample()
```

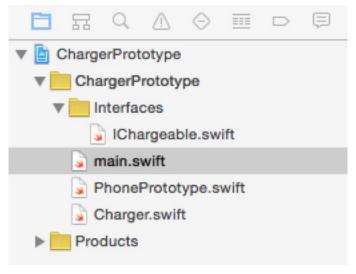


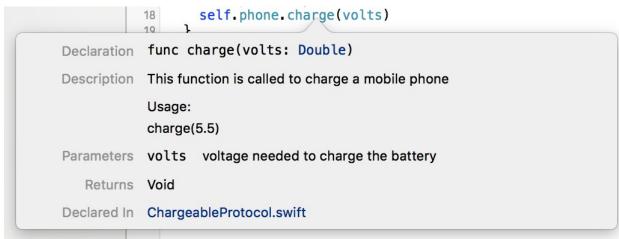
```
//Dictionnary
func testSimpleScreenFilling_withFlyweightDic() {
    // This is an example of a performance test case.
    // it is executed 10 times by default to get an average
    self.measureBlock() {
      let withPattern = WithPattern()
      withPattern.run()
                                                             Time: 0.247 sec (9% STDEV)
  }
    //TEST without applying the pattern
    func testSimpleScreenFilling_noFlyweight() {
    // This is an example of a performance test case.
         // it is executed 10 times by default to get an average
         self.measureBlock() {
           let noPattern = NoPattern()
           noPattern.run()
                                                             Time: 0.877 sec (6% STDEV)
}
    }
```

Chapter 4: Structural Patterns – Adapter and Facade







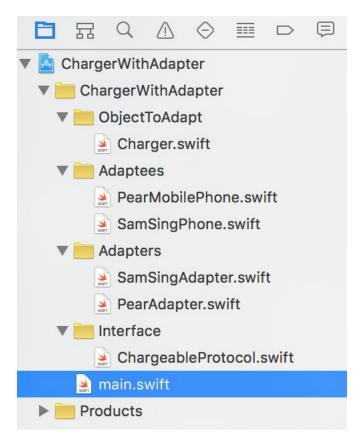


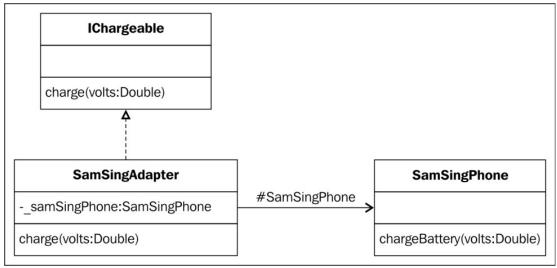
First Prototype A mobile is plugged Charging our PhonePrototype current voltage 10.0 Program ended with exit code: 0

All Output \$

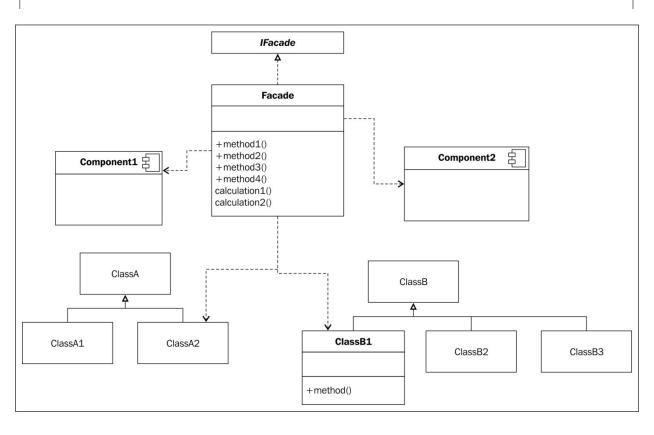


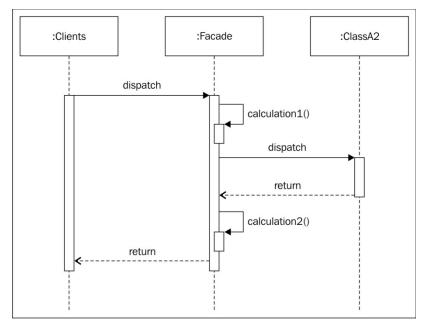


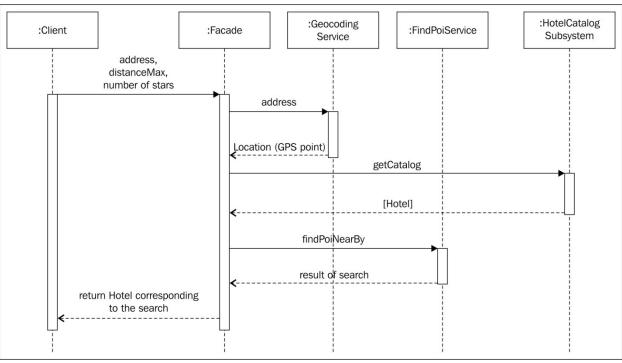




*** start test program *** charger ready test program Will charge a Pear Mobile Phone A mobile is plugged Adapter started Pear mobile phone is charging Current voltage 5.5 Adapter ended *** -Will charge a SamSing Mobile Phone A mobile is plugged Adapter started SamSing mobile phone is charging Current voltage 10.0 Adapter ended *** end test program Program ended with exit code: 0 All Output \$

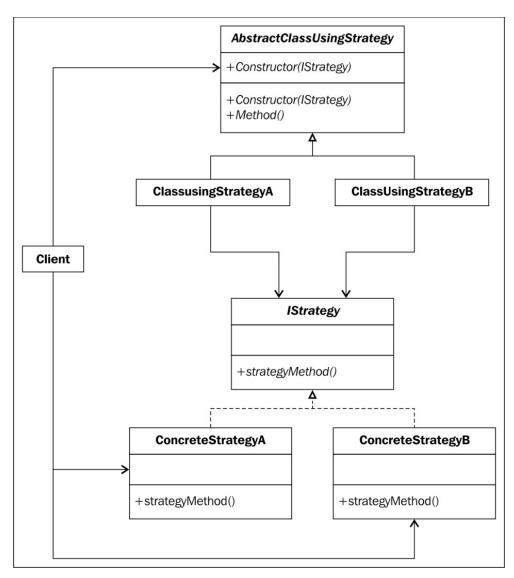


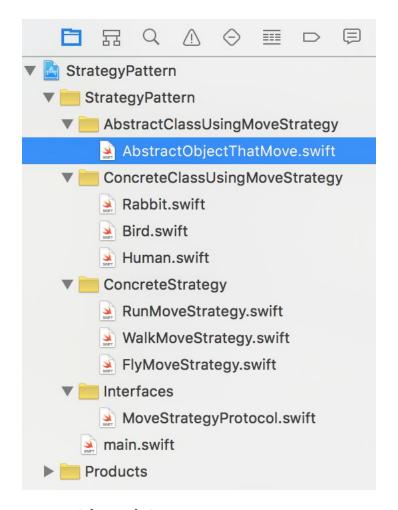




```
*** RESULTS
Their is Optional(94) results:
Hotel latitude:Optional(-17.0) longitude:Optional(9.0), stars: 4
Hotel latitude:Optional(-44.0) longitude:Optional(-23.0), stars: 4
Hotel latitude:Optional(-1.0) longitude:Optional(-5.0), stars: 4
Hotel latitude:Optional(-22.0) longitude:Optional(8.0), stars: 4
Hotel latitude:Optional(-5.0) longitude:Optional(-25.0), stars: 4
Hotel latitude:Optional(5.0) longitude:Optional(-33.0), stars: 4
Hotel latitude:Optional(-30.0) longitude:Optional(-14.0), stars: 4
Hotel latitude:Optional(-34.0) longitude:Optional(-11.0), stars: 4
Hotel latitude:Optional(-35.0) longitude:Optional(0.0), stars: 4
Hotel latitude:Optional(-11.0) longitude:Optional(-31.0), stars: 4
Hotel latitude:Optional(-9.0) longitude:Optional(-3.0), stars: 4
Hotel latitude:Optional(-5.0) longitude:Optional(19.0), stars: 4
Hotel latitude:Optional(-9.0) longitude:Optional(-41.0), stars: 4
Hotel latitude:Optional(-19.0) longitude:Optional(-2.0), stars: 4
Hotel latitude:Optional(-23.0) longitude:Optional(33.0), stars: 4
Hotel latitude:Optional(-31.0) longitude:Optional(29.0), stars: 4
Hotel latitude:Optional(-22.0) longitude:Optional(-18.0), stars: 4
Hotel latitude:Optional(7.0) longitude:Optional(11.0), stars: 4
Hotel latitude:Optional(-28.0) longitude:Optional(21.0), stars: 4
Hotol latitudo Ontional/ 22 A) longitudo Ontional/O A) ctars. A
                                                                           TÍÍ I
All Output $
```

Chapter 5: Behavioral Patterns – Strategy, State, and Template Method



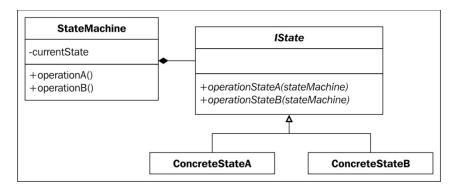


- *** working with Human
i'm a human
I am walking
- *** working with Bird
i'm a bird
I am flying
- *** working with Rabbit
i'm a rabbit
I am running
Program ended with exit code: 0

All Output \$



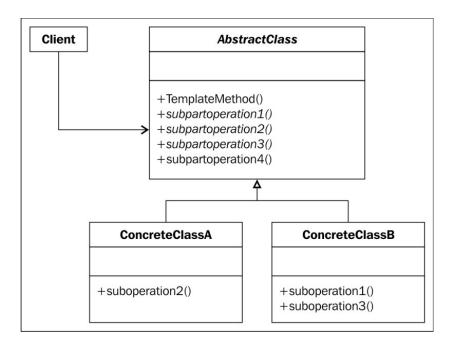


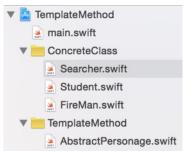




STANDBY MODE cannot launch an action in standby mode Changing to Radio Mode RADIO MODE Choosing next Station & playing it Changing to MUSIC Mode MUSIC PLAY MODE Changing to Pausing Mode MUSIC PAUSED MODE Changing to playing Mode MUSIC PLAY MODE Changing source to Standby Mode STANDBY MODE Program ended with exit code: 0



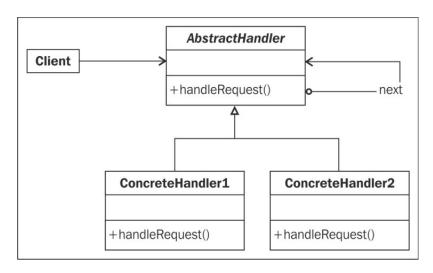


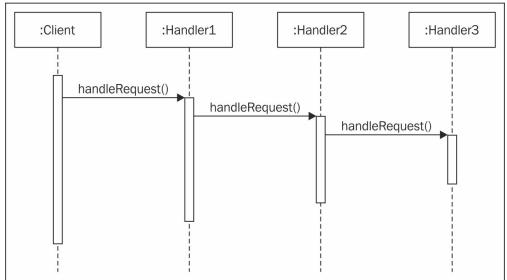




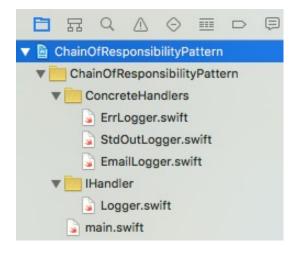
PLAYING DAY Get Up! Eat Breakfast do washing up Go to work Work Receive Pay BackHome Do personal activities Eat dinner do washing up Sleep - **** 30 days later: Name: Simon / fatigue : 100 / happiness 1300 / Hungry 250 / knowledge 100 / money: 0 / | Name: Natasha / fatigue : 100 / happiness 1150 / Hungry 250 / knowledge 100 / money: 3000 / Name: Edward / fatigue : 100 / happiness 250 / Hungry 100 / knowledge 100 / money: 2490 /

Chapter 6: Behavioral Patterns – Chain of Responsibility and Command





Building the Chain fatal error: Must be overriden: file /Users/Admin/ Dropbox/Documents/Ebooks reviews/Ecriture Swift Design Patterns/chapitres/Chapter6/code/CORPattern/ ChainOfResponsibilityPattern/ ChainOfResponsibilityPattern/Logger.swift, line 34 Program ended with exit code: 9



Building the Chain - *** stdOutLogger:

Sending to StdOutLogger: Entering the func Y()

- StdOutLogger && EmailLogger:

Sending to StdOutLogger: Step 1 Completed

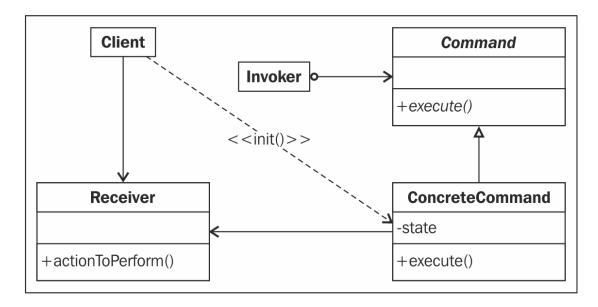
Sending by Email: Step 1 Completed

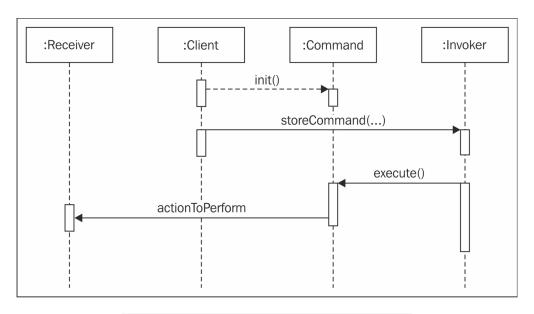
all three loggers:

Sending to StdOutLogger: An error occured Sending by Email: An error occured

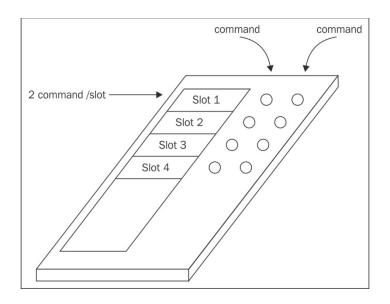
Sending to ErrorLogger: An error occured

Program ended with exit code: 0



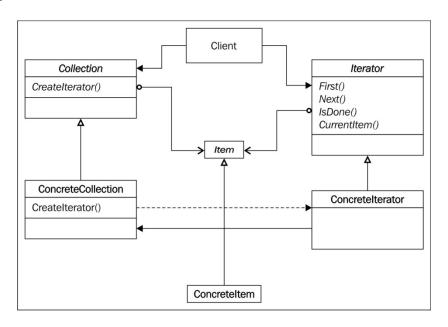






Light is On
Light is Off
Light is Off
Light is Off
Audio Player is On
Audio Player is Off
Audio Player is On
AudioPlayer is playing
AudioPlayer has stopped to play music
Audio Player is Off

Chapter 7: Behavioral Patterns – Iterator, Mediator, and Observer



```
for player in players {

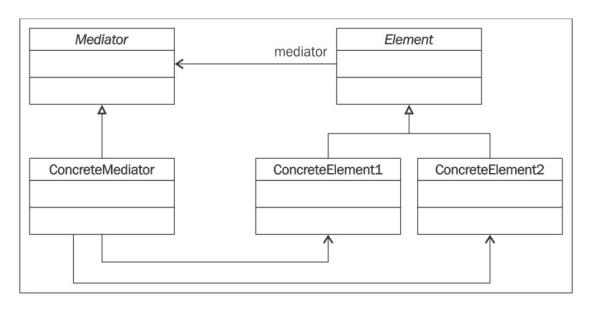
1 Type 'OurCollection<Player>' does not conform to protocol 'SequenceType'

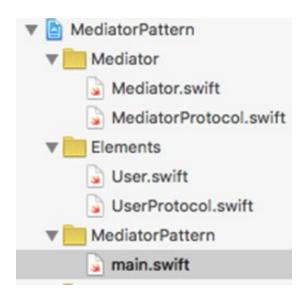
46 print("analysing \((player.name)")

47 }
```

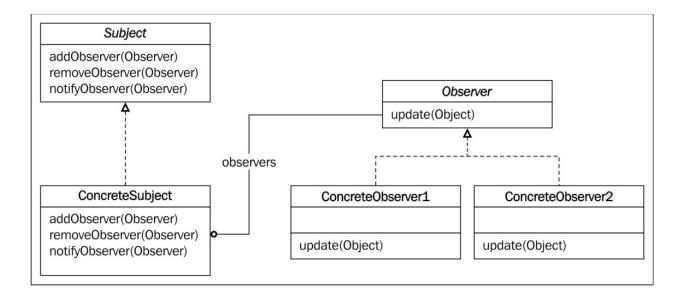
Name: Helmi Name: Raphael Name: Adrien Name: Alain

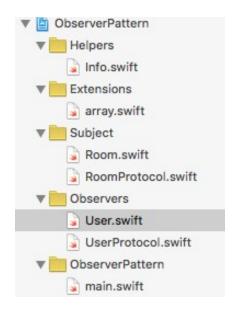
Program ended with exit code: 0





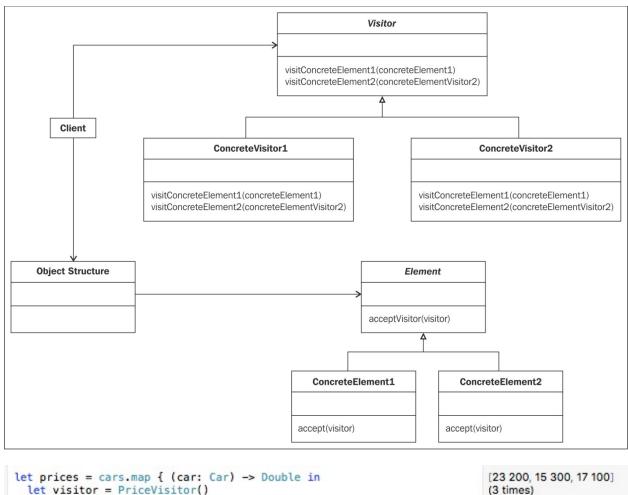
Helmi received message1 from Julien Adrien received message1 from Julien Raphael received message 2 from Helmi Program ended with exit code: 0



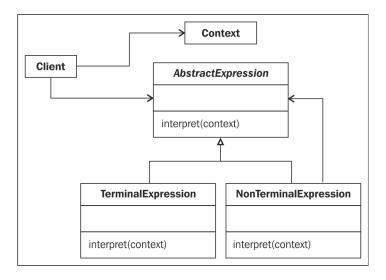


Julien notified that Julien have status Join on 2015-09-13 19:56:54 +0000 Julien notified that Alain have status Join on 2015-09-13 19:56:54 +0000 Alain notified that Alain have status Join on 2015-09-13 19:56:54 +0000 Julien notified that Helmi have status Join on 2015-09-13 19:56:54 +0000 Alain notified that Helmi have status Join on 2015-09-13 19:56:54 +0000 Helmi notified that Helmi have status Join on 2015-09-13 19:56:54 +0000 Julien notified that Raphael have status Join on 2015-09-13 19:56:54 +0000 Alain notified that Raphael have status Join on 2015-09-13 19:56:54 +0000 Helmi notified that Raphael have status Join on 2015-09-13 19:56:54 +0000 Raphael notified that Raphael have status Join on 2015-09-13 19:56:54 +0000 Julien notified that Alain have status Leave on 2015-09-13 19:56:54 +0000 Helmi notified that Alain have status Leave on 2015-09-13 19:56:54 +0000 Raphael notified that Alain have status Leave on 2015-09-13 19:56:54 +0000 Julien notified that Helmi have status Leave on 2015-09-13 19:56:54 +0000 Raphael notified that Helmi have status Leave on 2015-09-13 19:56:54 +0000 Raphael notified that Julien have status Leave on 2015-09-13 19:56:54 +0000 Raphael notified that Alain have status Join on 2015-09-13 19:56:54 +0000 Alain notified that Alain have status Join on 2015-09-13 19:56:54 +0000 Program ended with exit code: 0

Chapter 8: Behavioral Patterns – Visitor, Interpreter, and Memento



```
let prices = cars.map { (car: Car) -> Double in
    let visitor = PriceVisitor()
    car.accept(visitor)
    return visitor.price
}
[23 200, 15 300, 17 100]
(3 times)
(3 times)
```



14 MCCMXXVIII is not a correct roman number 1928 Program ended with exit code: 0

All Output ≎



