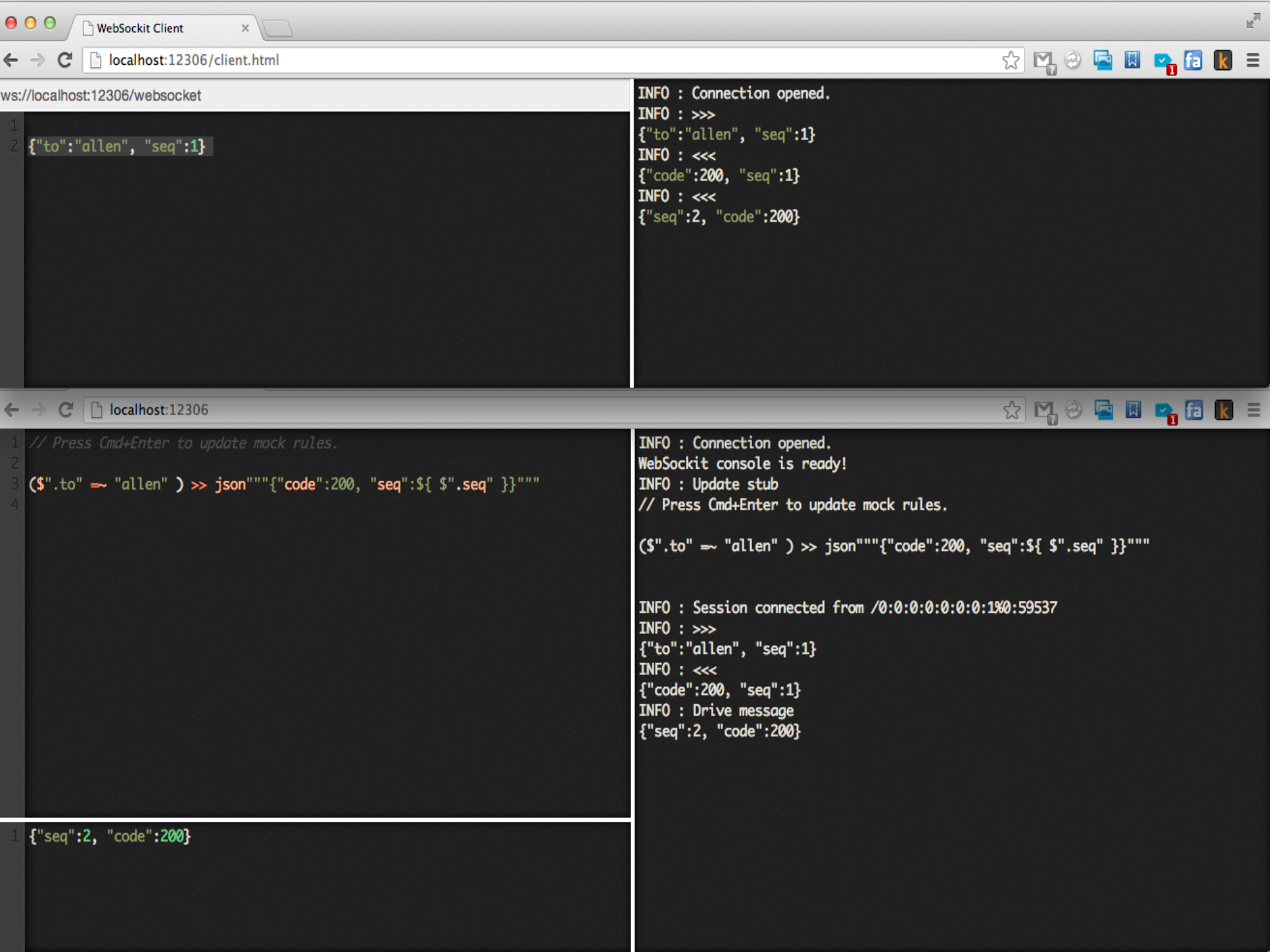


我的 Scala 实践总结

zhongl

Scala DSL

<https://github.com/zhongli/websocketkit>



```
("$".to" =~ "allen" && "$".seq" > 25) >> json""  
  {"code":200}  
""
```

twitter util eval is cool

@fujohnwang

JSONPath

<http://goessner.net/articles/JsonPath/index.html#e2>

<https://code.google.com/p/json-path/>

\$".Magic"

String Interpolation
Implicit Classes

Regular Expressions Interpolation in Pattern Matching

Demo

Trait

案例两则

用户的职责拆装

```
class User extends Actor {  
  private var authorized = false  
  def receive = {  
    case Register(profile)      =>  
    case Update(profile)        =>  
    case Login(id, passwd)      =>  
    case Logout                 =>  
    case Friends                =>  
    case Message(to, payload)  =>  
  }  
}
```

随着场景复杂度的变化, case会极速膨胀, 如何破?

```
object StateMachine {  
  trait State  
  case object Connected extends State  
  case object Authorized extends State  
  
  trait Data  
  case object Anonymous extends Data  
  case class Identity(v: Int) extends  
Data  
}
```

```
import StateMachine._

trait Security extends FSM[State, Data] {
  startWith(Connected, Anonymous)

  when(Connected) {
    case Event(Login(id, passwd), Anonymous) =>
      goto(Authorized) using Identity(id)
  }
  when(Authorized) {
    case Event(Logout, Identity(v)) =>
      goto(Connected) using Anonymous
  }
  case class Login(id: String, passwd: String)
  case object Logout
}
```

```
import StateMachine._

trait Profile extends FSM[State,Data] {

  when(Connected) {
    case Event(Register(id, passwd), Anonymous) =>
      stay
  }

  when(Authorized) {
    case Event(Update(passwd), Identity(v))      =>
      stay
  }

  case class Register(id: String, passwd: String)
  case class Update(passwd: String)
}
```

```
import StateMachine._

trait Network extends FSM[State,Data] {

  when(Authorized) {
    case Event(Friends, Identity(v))          =>
      stay
    case Event(Message(to, data), Identity(v)) =>
      stay
  }

  case object Friends
  case class Message(to: String, payload: String)
}
```



```
import StateMachine._

class User extends FSM[State,Data] {

  whenUnhandled {
    case Event(s, d) => log.warn(...); stay
  }
  initialize()
}

object User {
  def props = Props(new User with Security
                    with Profile
                    with Network)
}
```

集中化依赖

```
import org.json4s._
import org.json4s.jackson.JsonMethods._
import org.json4s.JsonDSL._

class Command(name: String) {
  def unapply(s: String): Option[JValue] = {
    try {
      val j = parse(s)
      if (j \ "cmd" == name) Some(j) else None
    } catch { case _: Throwable => None }
  }
  implicit val formats = DefaultFormats
  def ack(code: Int) = ("code" -> code)
}
```

```
import org.json4s._  
import org.json4s.jackson.JsonMethods  
  
trait Json extends JsonDSL  
    with JsonMethod  
    with DoubleMode {  
  type JValue = org.json4s.JValue  
  implicit val formats = DefaultFormats  
}
```

```
class Command(name: String) extends Json {  
  def unapply(s: String): Option[JValue] = {  
    try {  
      val j = parse(s)  
      if (j \ "cmd" == name) Some(j) else None  
    } catch { case _: Throwable => None }  
  }  
  
  def ack(code: Int) = ("code" -> code)  
}
```

Akka Actor

理解 Actor 的生命周期

小心 Restart 给你来个 NPE

```
class Dummy(r: Resource) extends Actor
```

理解 Option 与 Either

Effective SBT

Thanks