Scala in the JEE world

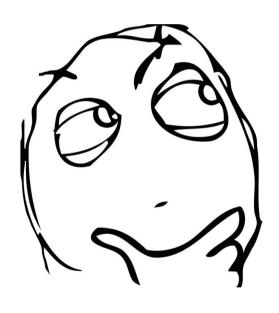
How and why we have used Scala to implement portions of typical Java EE



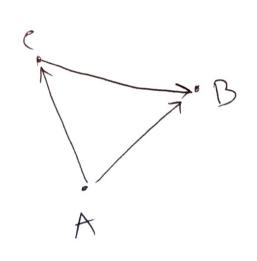


Experts at Cake Solutions





They thought we wanted

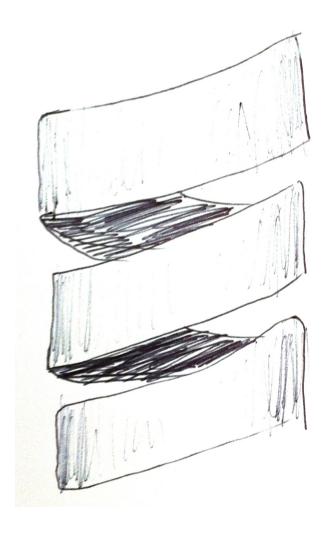


$$f: A \rightarrow B$$
, $g: B \rightarrow C$:
 $g \cdot F: A \rightarrow C$, $h: A \rightarrow A$
 $h \cdot (g \cdot f) = (h \cdot g) \cdot f$; $f \cdot h = f = B \cdot f$

They thought we wanted



Use Scala



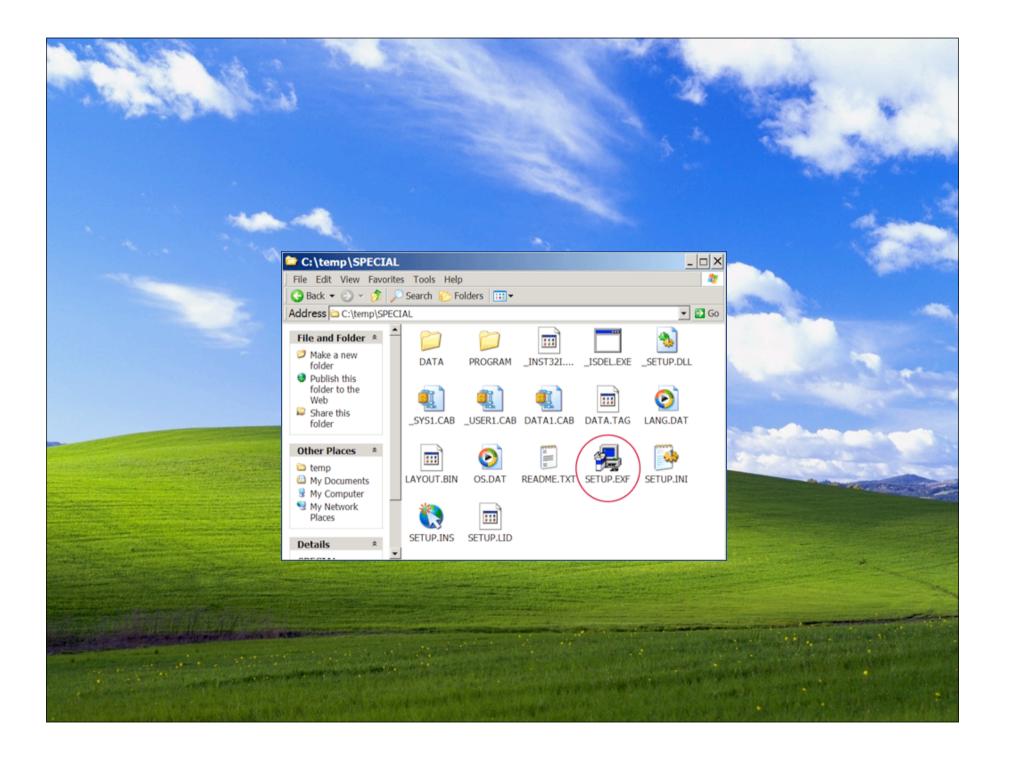


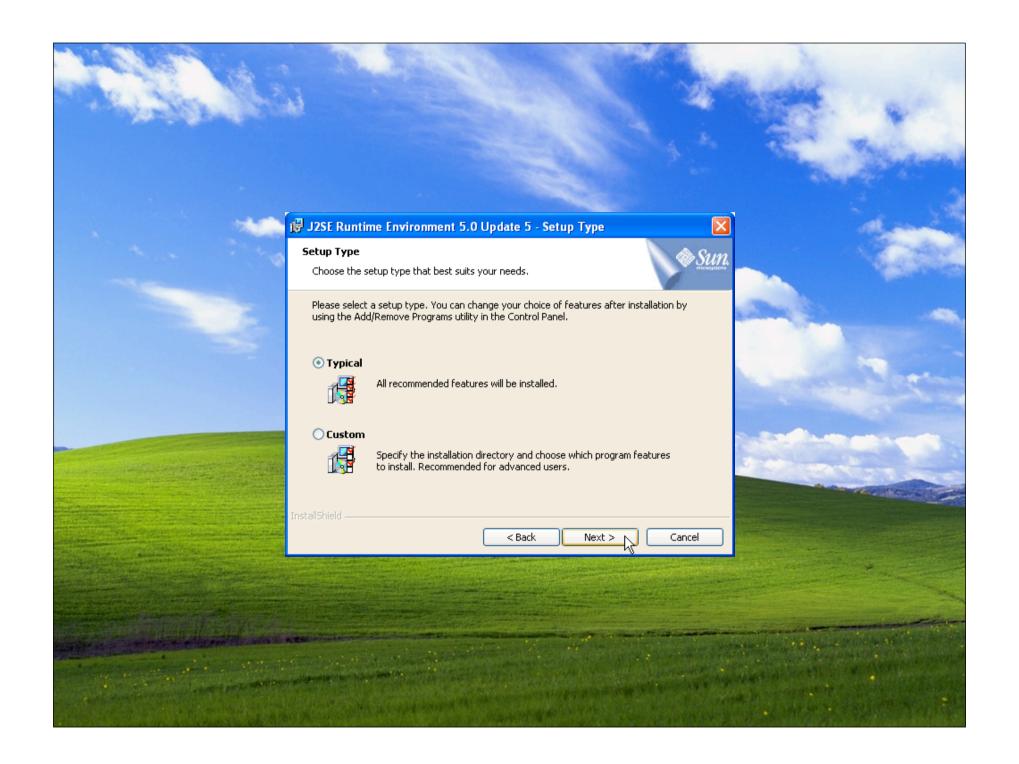
Microsoft MS-DOS 6 Setup

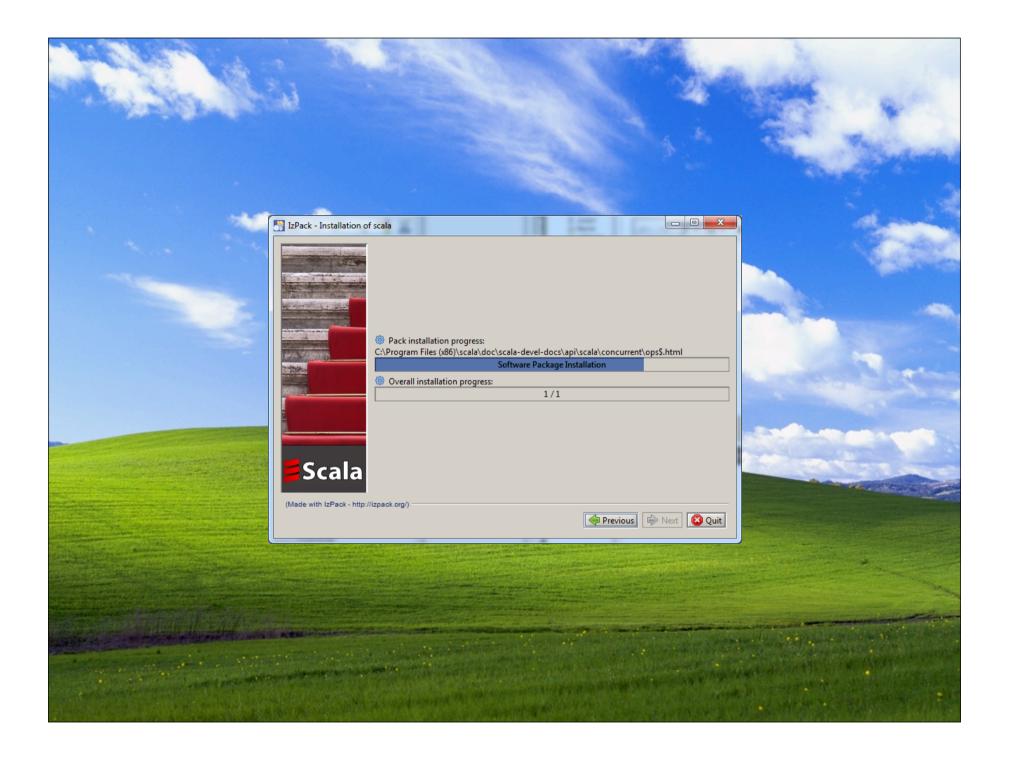
Double your hard disk with DoubleSpace. MS-DOS 6 gives you a safe, easy way to increase your disk capacity by integrating data compression into the operating system.

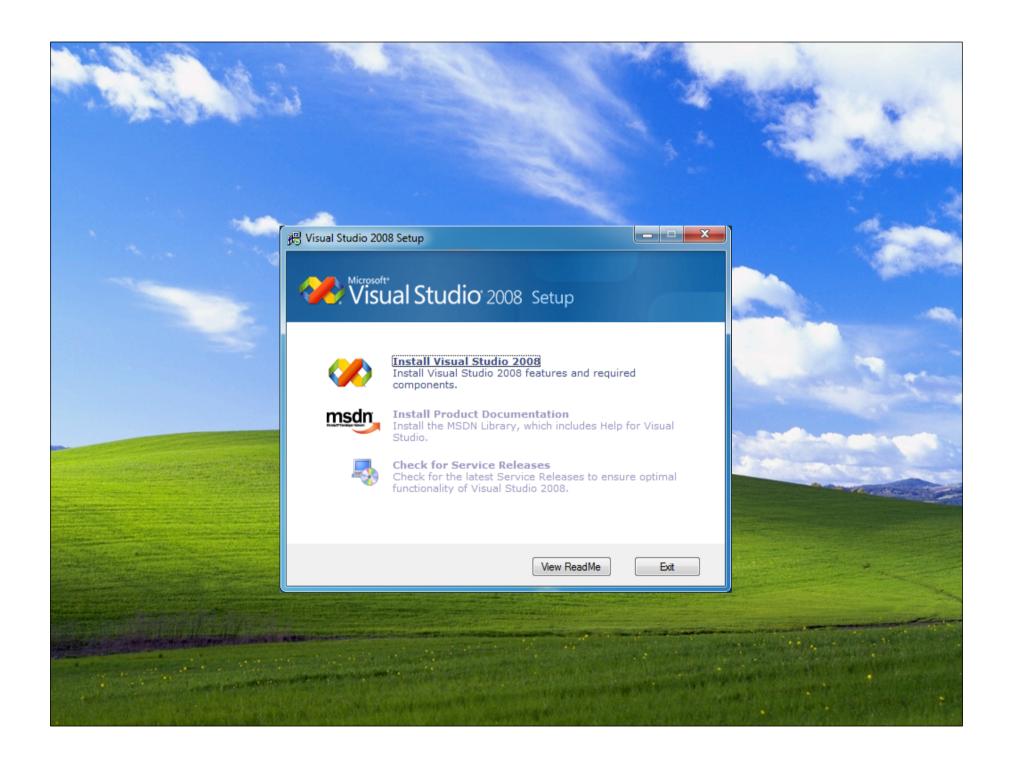
You can double your hard disk by typing DBLSPACE at the command prompt as soon as you complete this setup program.

25% complete



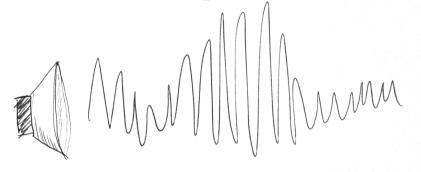






Maven, baby





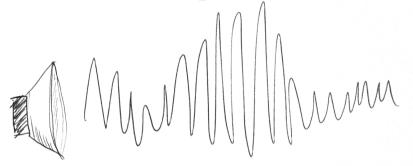
$$x=5+5$$







Val total=
items map {i ⇒ i.price * i.quantity } sum



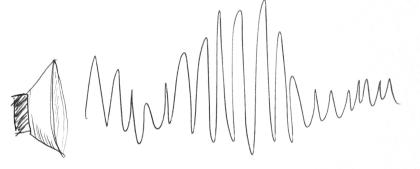
```
Case class Order (customer: String,
items: Seq [Item])

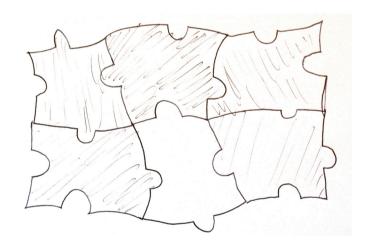
Case class Item (name: String,
quantity: Big Decimal,
price: Big Decimal)
```

val order = Order ("Jan",

Item ("x", 2,2.5):: Item ("y", 3,3.25):: Nil)

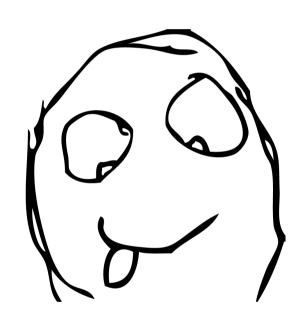
val total = order. items map { i > i. quantity *i. price} sum





$$\chi_{x} \rightarrow x + 2$$

Case study: User





```
Case study: User

public class User ?

private String osername;

private String first Name;

private String surname;
```



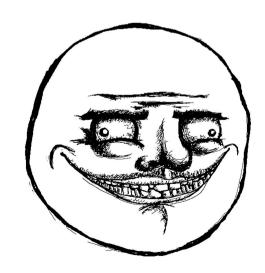
Case study: User

```
case class User (

username: String,

first Name: String)

sor name: String)
```



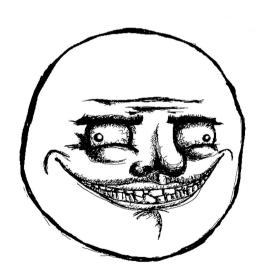
Case study: Maps

```
Map (String, List (? extends Foo (?)) map =
    new Hash Map (String, List (? extends Foo (?))) ();
if (map & contains Key ("foo")) {
   List(? extends foo(?) v = map.get("foo");
    if (v!= mull) {
      // there and not null
    3 else {
     1/ these and null
} else }
  I not there
```

Case study: Maps

```
val map: Map[String, List[- (: Foo[-]]] = Map()
```

```
map.get ("foo") match {
case Some (v) if v!= hall =>
// there and not hall
case Some (v) =>
// there and null
case None =>
// not there
```



Case study: JDBC

```
val template = new Simple Jobc Template (data Source)

val result = template.query ("SELECT * ...") {

rs >

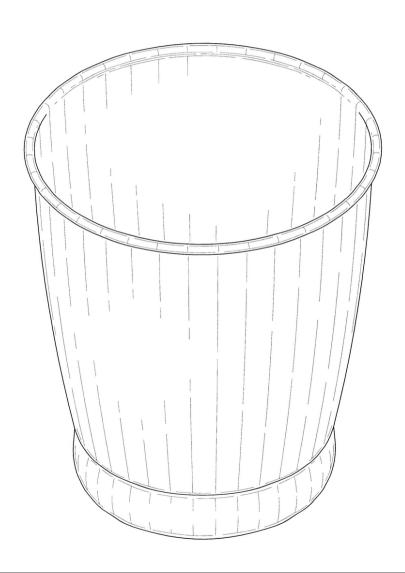
User (rs. get String ("username"),

rs. get String ("first Name"),

rs. get String ("surname"))
}
```

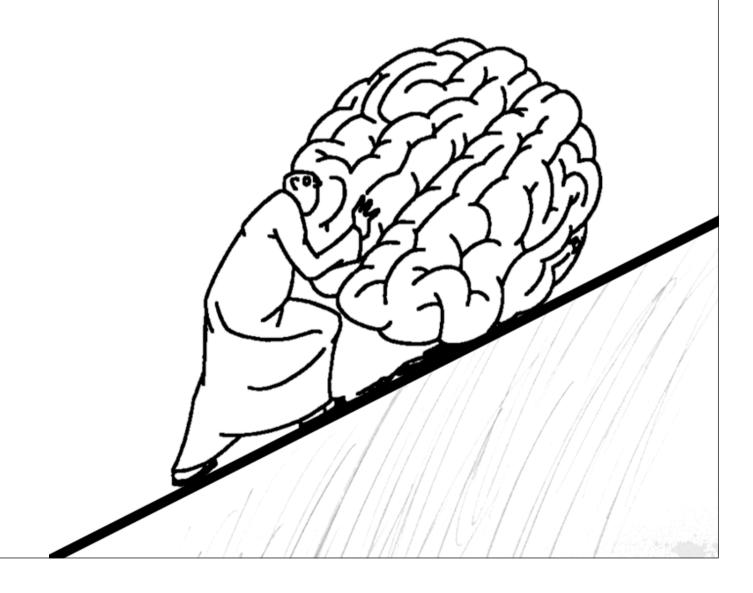
Case study: JDBC

No waste

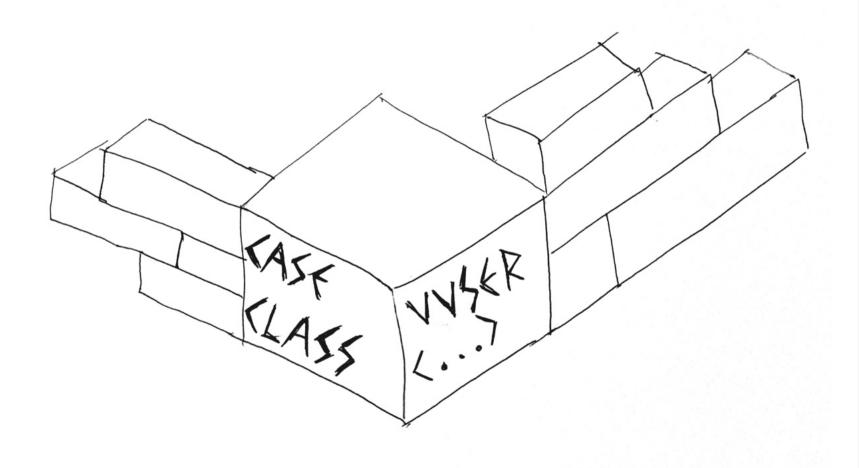


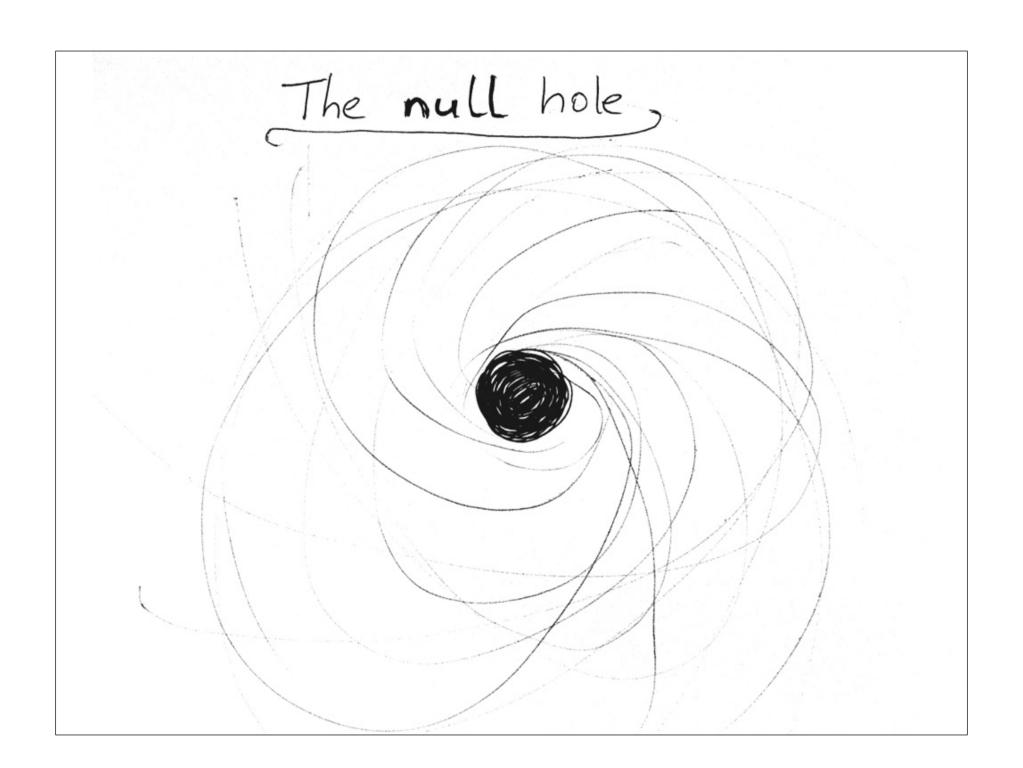
JÅVA €19.⁹⁵

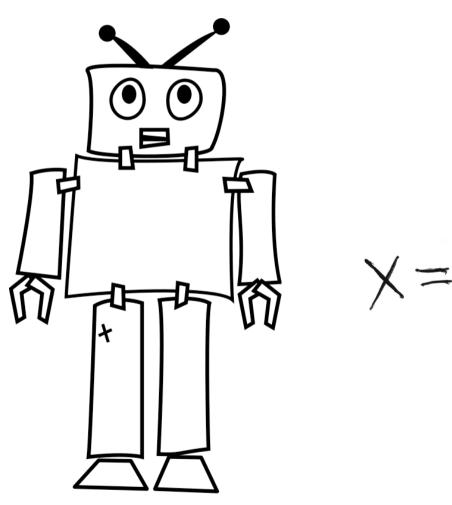
Meet Sisyphus





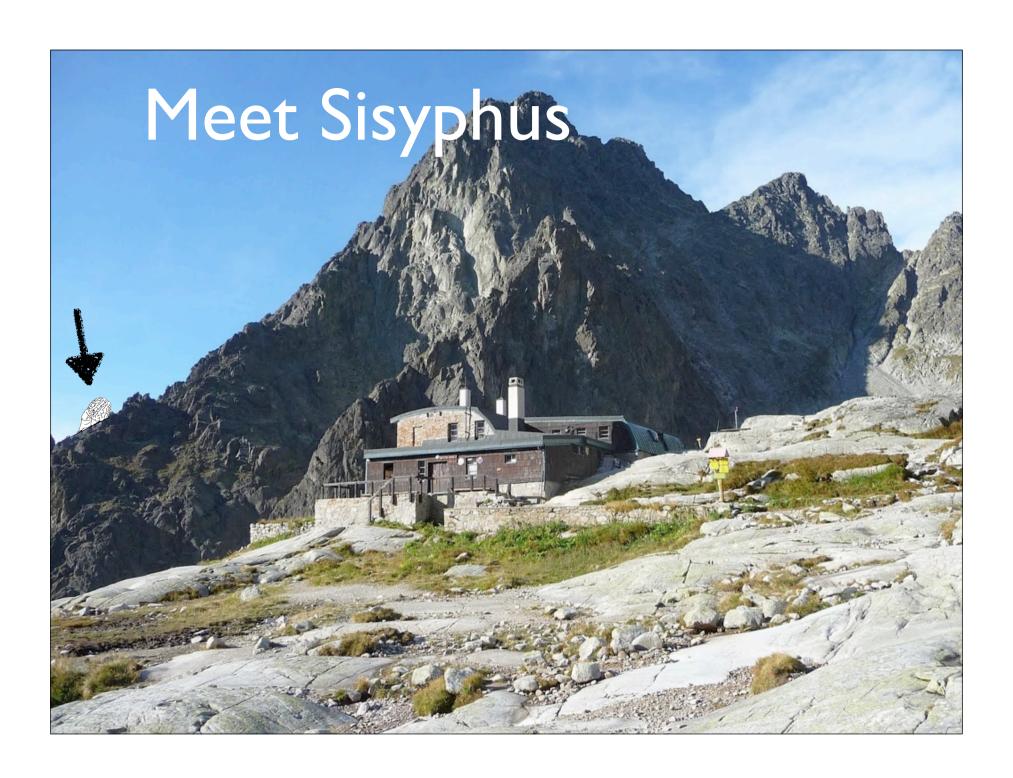


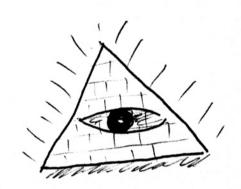




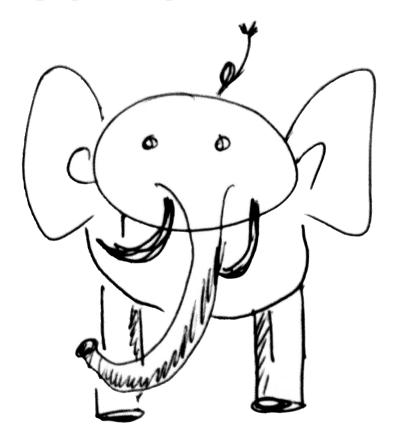
$$x=5+5$$







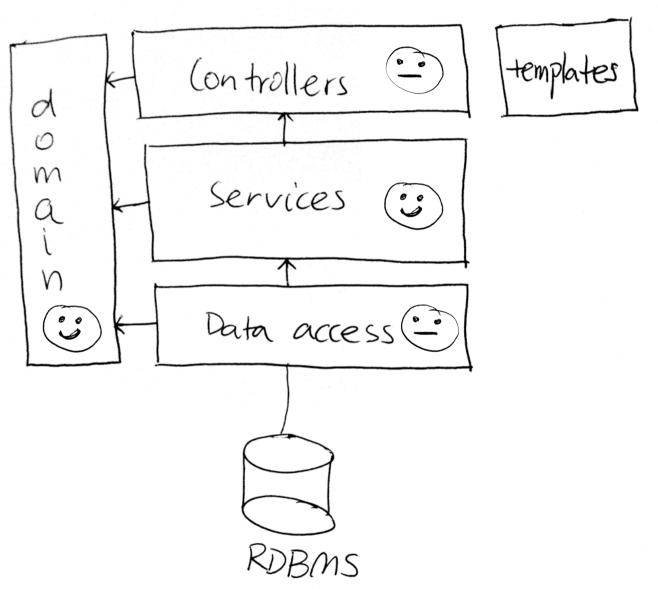
3



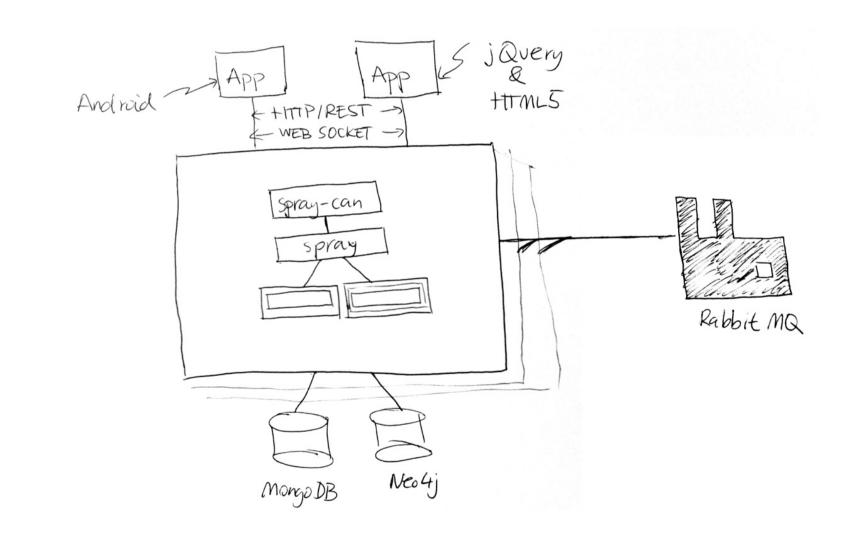
SKETCHES OF AN ELEPHANT: A TOPOS THEORY COMPENDIUM



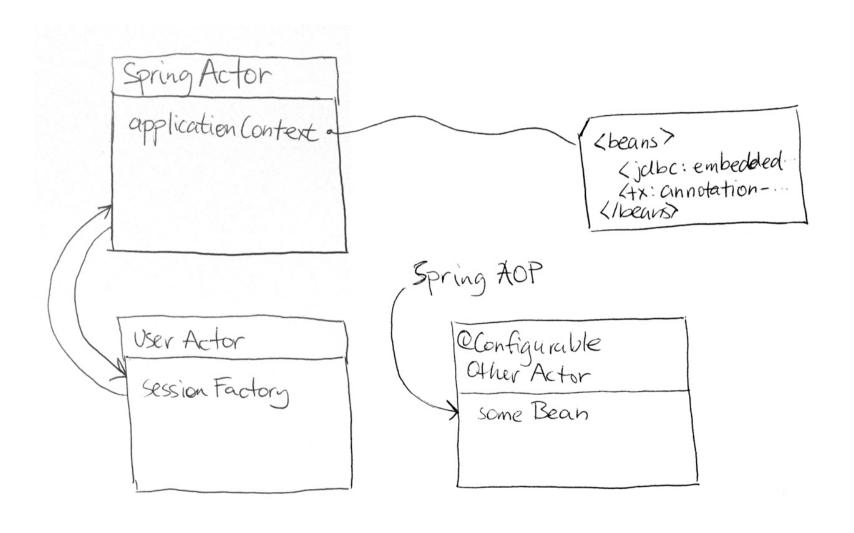
Same old...



Brand new...



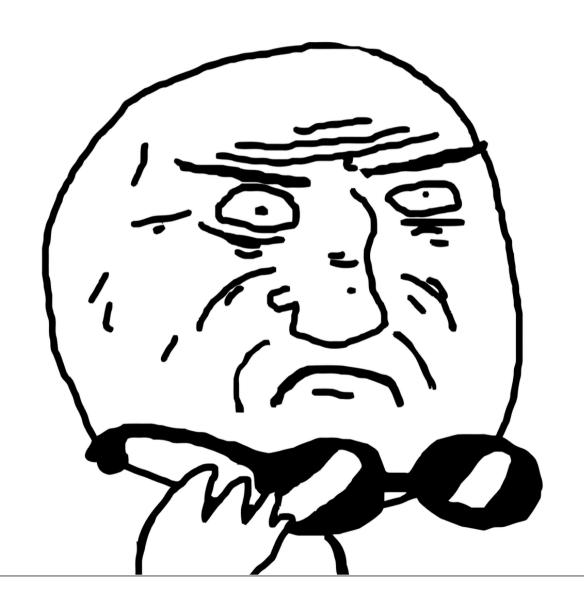
Brand new...

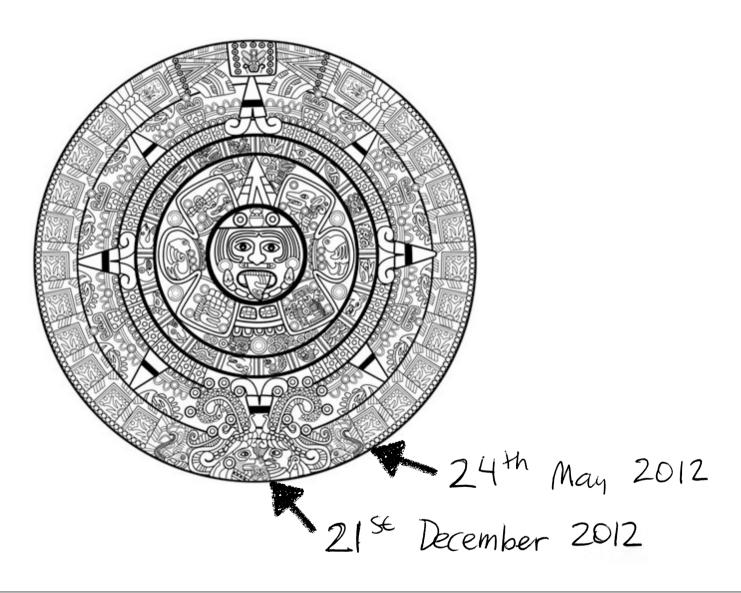


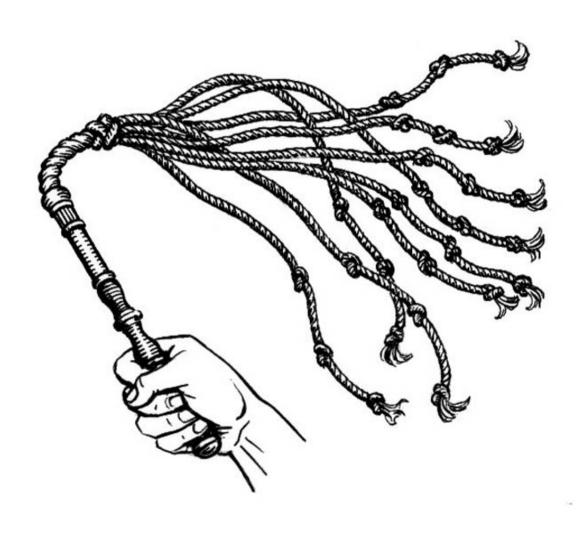
Brand new...

```
Class User Actor extends Actor {
   CAutowired
    var sf: SessionFactory = -
   otransactional
protected def receive = {
      Case Get User (id) =>
         Sender! sf. get Current Session. get (d)
      case Find All () >
        Sender! st. get Current Session ...
      case Delete User(id) ⇒
```

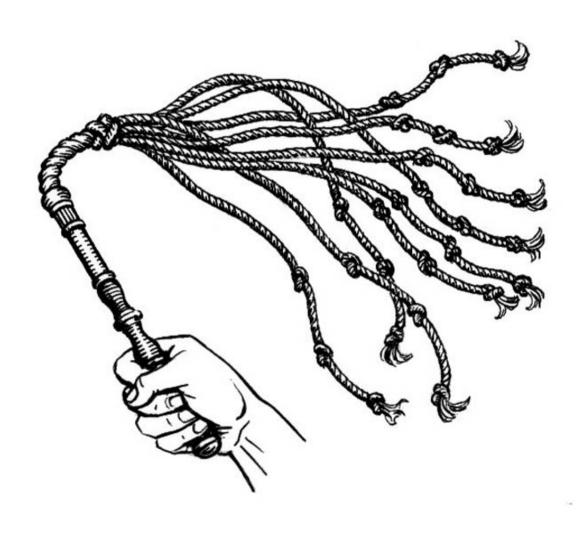
Mother of God

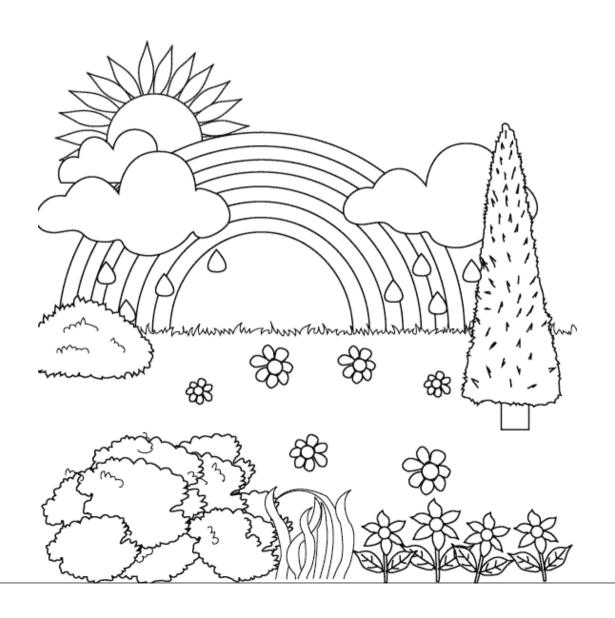












True story

