

IO monads

In general, an action may also return a value. Again, there are two combinators. The first is again trivial:

`unitIO :: a -> IO a`

Lift a pure A to IO[A]

If `x` is of type `a`, then `unitIO x` denotes the action that, when performed, does nothing save return `x`. The second combines two actions:

`bindIO :: IO a -> (a -> IO b) -> IO b`

flatMap or bind

sequences two effects together

Monads in Scala

```
trait Monad[F[_]] {  
  def pure[A](a: A) : F[A]  
  def flatMap[A,B](fa: F[A], f : A => F[B]): F[B]  
}
```

Implemented as a type class

Achieves the same as in Haskell

pure = put an A in a Monad

flatMap = sequence two monads