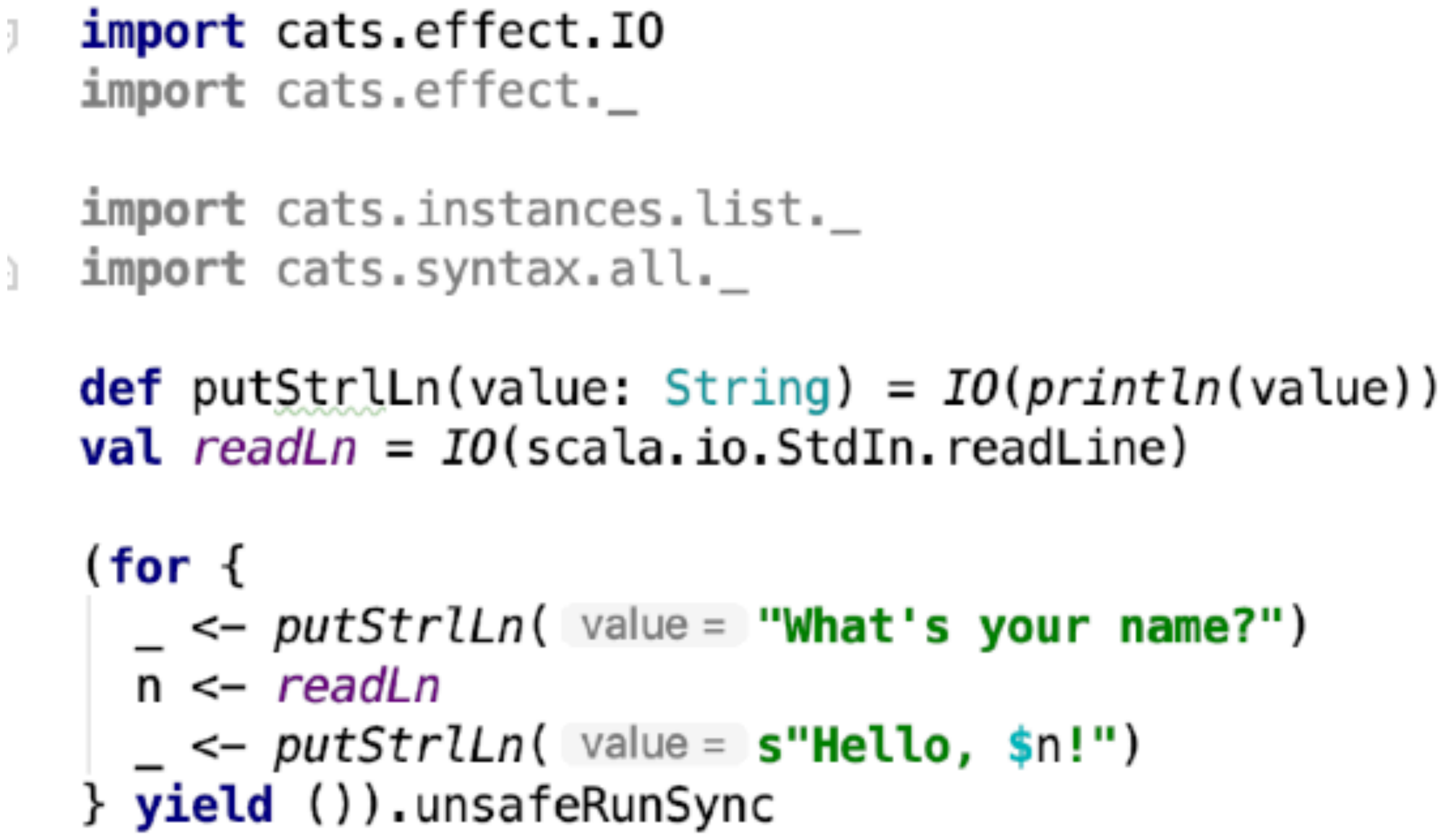
IO Monad - Cats Effect

Monix Task, Scalaz IO/Task became Cats Effect

Includes cancelation, stack safe trampolining, parallel execution and a green threads system (fibres),



```
import cats.effect.IO
import cats.effect._

import cats.instances.list._
import cats.syntax.all._

def putStrlLn(value: String) = IO(println(value))
val readLn = IO(scala.io.StdIn.readLine)

(for {
  _ <- putStrlLn( value = "What's your name?")
  n <- readLn
  _ <- putStrlLn( value = s"Hello, $n!")
} yield ()).unsafeRunSync
```

https://www.youtube.com/watch?v=g_jP47HFpWA

Daniel Spiewak - The Making of an IO

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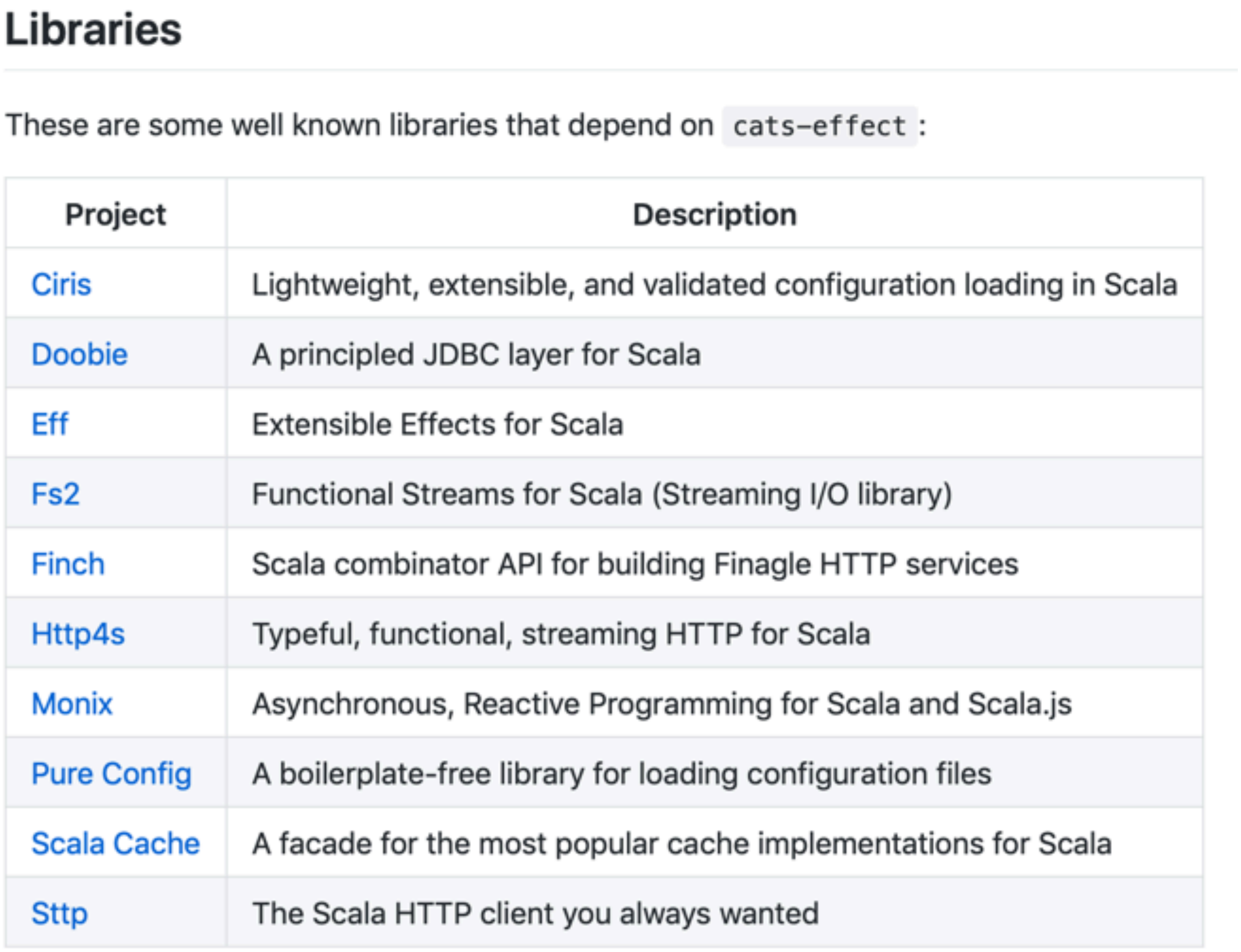

Libraries

These are some well known libraries that depend on `cats-effect`:

Project	Description
Ciris	Lightweight, extensible, and validated configuration loading in Scala
Doobie	A principled JDBC layer for Scala
Eff	Extensible Effects for Scala
Fs2	Functional Streams for Scala (Streaming I/O library)
Finch	Scala combinator API for building Finagle HTTP services
Http4s	Typeful, functional, streaming HTTP for Scala
Monix	Asynchronous, Reactive Programming for Scala and Scala.js
Pure Config	A boilerplate-free library for loading configuration files
Scala Cache	A facade for the most popular cache implementations for Scala
Sttp	The Scala HTTP client you always wanted