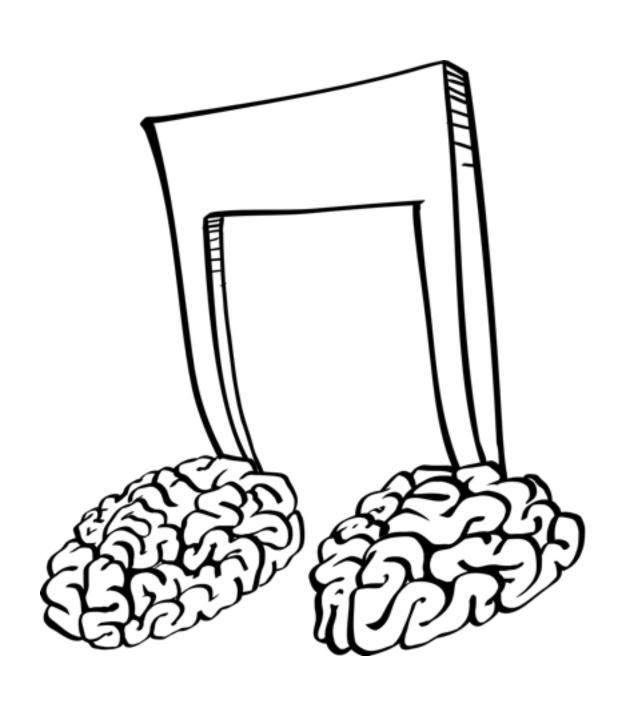
Scala Parser Combinators

Alexander Daniel • @lachdrache • http://lachdrache.wordpress.com

```
class PlusMinusParser extends JavaTokenParsers (
      def expr: Parser[Int] = targetActual <~ comment
      def targetActual: Parser[Int] = duration ~ duration ~ { case target-actual => actual-target }
      def comment: Parser[String] = """.*"".
      def duration: Parser[Int] = day | hourMinute
      def day: Parser[Int] = num ~ "d" ~ { days => days*MinutesPerDay}
      Jef hourMinute: Parser[Int] = hour-minute ~ { case h-m => h+60 + m }
       det hours Parser(Int) = numo-"h"
                     rser[Int] = numer"""
                          [] = wholeNumber ~ { _.toInt }
Slides are boring... Show me
       the code!!!
                         = 7*60 + 42
       def apply( nput :String):Int = parseAll(expr, input) match {
         case Success(result, _) => result
                                          new RuntimeException(msg)
         case NoSucc
                                 https://githubvcom/AlexanderDaniel/plus-minus
```

- Easy to learn and use
- Good example of an internal Scala DSL
- Great extensibility and maintainability
- Suitable for parsing small to medium sized input



It is difficult, if not impossible, for anyone to learn a subject purely by reading about it, without applying the information to specific problems and thereby forcing himself to think about what has been read. Furthermore, we all learn best the things we have discovered ourselves.

Donald Knuth • The Art of Computer Programming

Wana leann more?



https://github.com/AlexanderDaniel/parser-combinators#resources

66 99	literal
"".r	regular expression
P~Q	sequential composition
P<~Q, P~>Q	keep left/right only
PIQ	alternative
opt(P)	option
rep(P)	repetition
repsep(P, Q)	interleaved repetition
P ^^ f	result conversion

all other special characters

```
all letters
```

all assignment operators

