Scala Language 03 Hands-On

# Extractor

Write an extractor to decompose a string representing a fractional decimal into it’s constituent pieces of (sign, decimal, fraction). For example -1.23 would have sign = -, decimal = 1, fraction = .23. Use the extractor in a pattern matching statement to print out the pieces of a matching string.

# Regex

Write a regex to parse email addresses into (name, domain) components. Write a pattern matching statement to print out the email domain of a string, if the string is an email.

# Variance

Create a function foo which takes a function bar as a parameter. Write the type of bar to take a single parameter, return a result, and be as permissive as possible.

# Implicits

Using implicits, create a “virtual” method on String called bling which adds asterisks to the end of a string. E.g.,

"Let’s get blinged out!".bling

returns

\*Let’s get blinged out!\*

See <https://coderwall.com/p/k_1jzw/scala-s-pimp-my-library-pattern-example> for hints.

# Scripts

Write a bash script that uses Scala to count the number of files in the current directory.