Steaming Data

One Record at a Time

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CEO



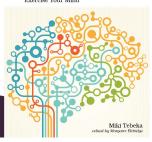


Effective Go Recipes Fast Solutions to Common Tasks

The Pragmatic Programmers



Go Brain Teasers





Python Brain Teasers





Pandas Brain Teasers













Load logs from file so we can query them.

```
$ head logs/1/x00
199.72.81.55 - - [01/Jul/1995:00:00:01
-0400] "GET /history/apollo/ HTTP/1.0" 200
6245
unicomp6.unicomp.net - -
[01/Jul/1995:00:00:06 -0400] "GET
/shuttle/countdown/ HTTP/1.0" 200 3985
199.120.110.21 - - [01/Jul/1995:00:00:09
-0400] "GET
/shuttle/missions/sts-73/mission-sts-73.htm
1 HTTP/1.0" 200 4085
```

Share

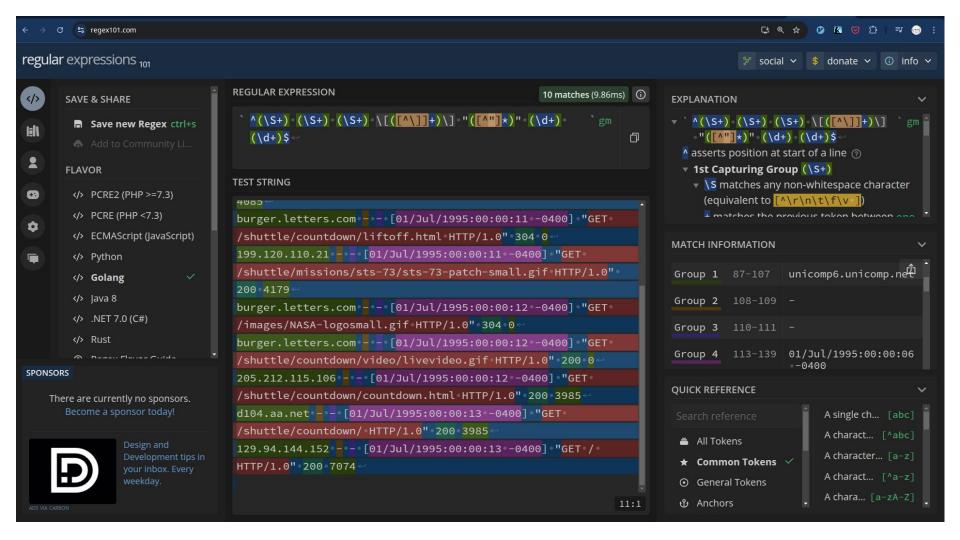
(C) Go Regex to Parse Apache Logs > Claude

Write a Go regular expression to parse the following logs 199.72.81.55 - - [01/Jul/1995:00:00:01 -0400] "GET /history/apollo/ HTTP/1.0" 200 6245 unicomp6.unicomp.net - - [01/Jul/1995:00:00:06 -0400] "GET /shuttle/countdown/ HTTP/1.0" 200 3985 199.120.110.21 - - [01/Jul/1995:00:00:09 -0400] "GET /shuttle/missions/sts-73/mission-sts-73.html HTTP/1.0" 200 4085 burger.letters.com - - [01/Jul/1995:00:00:11 -0400] "GET /shuttle/countdown/liftoff.html HTTP/1.0" 304 0 199.120.110.21 - - [01/Jul/1995:00:00:11 -0400] "GET /shuttle/missions/sts-73/sts-73-patchsmall.gif HTTP/1.0" 200 4179

```
← Apache Log Format Regular Expression Parser
package main
import (
  "regexp"
var logRegex = regexp.MustCompile(`^(\S+) (\S+) \[(['
type LogEntry struct {
             string
  Identity string
             string
  Timestamp string
  Request
             string
Last edited just now
                                                      Publish
```

Reply to Claude...





parser/parser.go



loader/simple

cmd/load

\$ du -sh logs 2.2Glogs



loader/seq

Load logs from file so we can query them.

loader/mapper





Fast

Accelerated expression evaluation in performance-critical paths from nanoseconds to microseconds.



Portable

Developer friendly, light weight with common syntax across multiple Google and external systems.



Extensible

Supports subsetting and extension, easy to embed and tailor to configuration and policy requirements.



Safe

Non-Turing complete, and only accesses data provided by the host application.



github.com/google/cel-go

Transfer-Encoding: chunked

jsonlines ndjson

cmd/httpd



Questions?



github.com/tebeka/talks/tree/master/streams