

```

1 // Comma-Separated Values
2 grammar CSVAG;
3
4 @header {
5 package ag;
6 import java.util.*;
7 }
8
9 file
10 locals [int i = 0]
11     : hdr
12       { System.out.println("header: " + $hdr.text); }
13       (rs += row[$hdr.text.split(",")]) { $i++; System.out.println($row.
14         vals); } )+
14       { System.out.println("Totally " + $i + " rows");
15         for (RowContext r : $rs) {
16           System.out.println("Row token interval: " + r.
17             getSourceInterval());
18         }
19     } ;
19     hdr : row[null] ;
20     row[String[] columns] returns [Map<String, String> vals = new HashMap<
21       String, String>()]
21       locals [int col = 0]
22       : field { if ($columns != null) $vals.put(columns[$col++], $field.
23         text); }
23       (',' field { if ($columns != null) $vals.put(columns[$col++],
24         $field.text); } )* ;
24
25 field : ID | NUMBER ;
26
27 ID : [a-z]+ ;
28 NUMBER : [0-9]+ ;
29 WS : [ \t\r\n]+ -> skip;

```