
Algorithm 1 *

Require: s : sentence to chunk

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1: buffer = [ ] /*Undecided expanding window of chunk*/
2: chunks = [ ] /*Decided labelled segment*/
3: buffer_language  $\leftarrow$  LANGPREDICT( $s[0]$ ) /* Language of first word */
4: flag  $\leftarrow$  0
5: for all  $w \in s$  do
6:   if LANGPREDICT( $w$ )=buffer_language then
7:     if flag = 1 then
8:       buffer  $\leftarrow$  buffer + [word_buffer, $w$ ]
9:       flag  $\leftarrow$  0
10:    else
11:      buffer  $\leftarrow$  buffer + [  $w$ ]
12:    if LANGPREDICT( $w$ )  $\neq$  buffer_language then
13:      if flag= 0 then
14:        flag  $\leftarrow$  1
15:        word_buffer  $\leftarrow$   $w$ 
16:        continue
17:      else
18:        chunks  $\leftarrow$  chunks + [(buffer,buffer_language)]
19:        buffer  $\leftarrow$  [word_buffer, $w$ ]
20:        buffer_language  $\leftarrow$  LANGPREDICT( $w$ )
21:        flag  $\leftarrow$  0
22:    if length(buffer)  $\neq$  0 then
23:      chunks  $\leftarrow$  chunks + [(buffer,buffer_language)]
```
