

nevelok — L^AT_EX package for automatic definite articles for Hungarian*

Zalán Bodó[†]

Released 2015/09/10

Abstract

L^AT_EX package for automatic definite articles for Hungarian.

1 Introduction

In Hungarian, the definite articles “a” and “az” are determined by the pronunciation of the subsequent word. If the first phoneme of the pronounced word is a vowel, then the article is “az”, otherwise “a” must be used. The simple commands help the L^AT_EX user to automatically adjust the definite article according to chapter, equation, page, etc. number.

2 Usage

\aaz The `nevelok` package provides the following commands: `\aaz{<reference>}` and **\Aaz** `\Aaz{<reference>}`, where *reference* is a reference to a labeled L^AT_EX object (section, equation, figure, etc.). The difference stands in letter casing: the `\aaz` is the lower case command producing “a” and “az”, while `\Aaz` is the upper case version, producing “A” and “Az” for the beginning of a sentence. The commands also work if the reference is put in round parentheses.

Note: The commands work only with the simple, built-in references `\ref` and `\pageref`. It does not work with the popular `\eqref` command of `amsmath` package, but the same effect can be achieved by enclosing the reference in round parentheses.

Requirements: The package requires/uses the `xstring` package.

3 Implementation

\aaz The `\aaz` command outputs “a” or “az”, depending on the argument. To be used inside the sentence.

```
1 %%  
2 \newcommand{\aaz}[1]{%  
3   \z@aaz{#1}{a}{az}{\{ }\}%  
4 }  
5 %%
```

\Aaz The `\Aaz` command outputs “A” or “Az”, depending on the argument. To be used when starting a new sentence.

```
6 %%  
7 \newcommand{\Aaz}[1]{%  
8   \z@aaz{#1}{A}{Az}{\{ }\}%  
9 }  
10 %%
```

*This file describes version v1.00, last revised 2015/09/10.

[†]E-mail: zbodo@cs.ubbcluj.ro

`\z@aaz` The main command of the package, used by the two provided commands: `\z@aaz{⟨reference⟩}{⟨art1⟩}{⟨art2⟩}{⟨sym1⟩}{⟨sym2⟩}`. The *art1* and *art2* parameters stand for the definite articles used in case of consonants and vowels, respectively. Parameters *art1* and *art2* are used to handle cases when the reference is put between some symbols, e.g. “(” and “)”. The 4th parameter is sought for at the beginning of the reference, and if found, the substring between the 4th and 5th parameter values is analyzed, instead of the whole reference.

```

11 %%
12 \newcommand{\z@aaz}[5]{%
13   \def\param{#1}% the first (reference) parameter
14   \def\kezd{}\relax% the symbols to be put before the output
15   \def\veg{}\relax% the symbols to be put after the output
16   \IfBeginWith{\param}{#4}{% if starts with round parantheses,
17                               % we remove it from both sides;
18                               % the parameter changes
19     \StrPosition{\param}{#5}[\veg%
20     \newcount\ind%
21     \ind = \veg%
22     \advance \ind by -1%
23     \StrMid{\param}{2}{\ind}[\param}%
24     \def\kezd{#4}%
25     \def\veg{#5}%
26   }\relax%
27   \IfBeginWith{\param}{1}{% if the reference starts with 1,
28                               % special care is required
29     \StrLen{\param}[\hossz]%
30     \newcount\ind%
31     \newcount\vege%
32     \ind = \hossz%
33     \vege = 0%
34     \loop% loops while it does not find a digit at the end
35         % (in \ref-s, strangely, an \hbox {} appears at the end;
36         % this loop was actually written to remove these)
37     \StrChar{\param}{\ind}[\kar]%
38     \IfSubStr{1234567890}{\kar}{\vege=1}{\relax}%
39     \ifnum \vege = 0%
40       \advance \ind by -1%
41     \repeat%
42     \StrLeft{\param}{\ind}[\paramuj]% \paramuj will contain the
43                                     % ‘‘cleaned’’ parameter
44     \StrPosition[1]{\paramuj}{.}[\elsopontpozicioja]%
45     \StrLen{\paramuj}[\hossz]%
46     \newcount\epme% position of the first dot minus 1
47     \epme = \elsopontpozicioja%
48     \advance \epme by -1%
49     \ifnum \elsopontpozicioja = 0%
50       \StrLeft{\paramuj}{\hossz}[\prefix]%
51     \else%
52       \StrLeft{\paramuj}{\epme}[\prefix]%
53     \fi%
54     \StrLen{\prefix}[\elsohossz]%
55     \ifnum \elsohossz = 1% 1
56       #3%
57     \else\ifnum \elsohossz = 2% 10
58       #2%
59     \else\ifnum \elsohossz = 3% 100
60       #2%
61     \else\ifnum \elsohossz = 4% 1000
62       #3%
63     \fi\fi\fi\fi%
64   }{%
65     \StrChar{\param}{1}[\kar]%
66     \newcount\az%

```

```

67     \az = 0%
68     \IfSubStr{2346789}{\kar}{% digits that require ‘a’;
69                                     % this is redundant, but was kept for some reasons
70     \az = 0%
71 }{%
72     \IfSubStr{5AEIOUFLMNRsaeiouflmnr}{\kar}{% digits and letters
73                                     % that require ‘az’
74     \az = 1%
75 }{%
76     \az = 0%
77 } \relax%
78 } \relax%
79 \ifnum \az = 1%
80     #3%
81 \else%
82     #2%
83 \fi%
84 }%
85 \ \kezd\param\veg%
86 }
87 %%

```

4 Change History

v1.00
 General: First public release 1