

The `fnumprint` package*

Robin Schneider
`ypid23@aol.de`

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Abstract

The `fnumprint` package provides a macros to decide to typeset a numbers either as number or as word name (only in German yet).
Fork me on GitHub: <https://github.com/ypid/latex-packages>

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1 Introduction

The `fnumprint` package defines two macros to decide to typeset a numbers either as number or as word name for the number. If the number is between zero and twelve (including zero and twelve) then the word name will be used. In any other cases the number will be typesetted with the `numprint` package. This package uses the `zahl2string` package to convert a number in the word name in German. So the conversion of a number (0–12) to a english word number is also implemented by `fnumprint`

*This document corresponds to `fnumprint` v1.0, dated 2012/08/19.

2 Usage

Just load the package placing

```
\usepackage{\jobname}
```

in the preamble of your L^AT_EX 2_ε source file.

\fnumprintc The macro **\fnumprintc** $\{\langle L^A T^E X \text{ counter name} \rangle\}$ takes a name of a LaTeX counter as its only not optional parameter and typesets it.

\fnumprint The macro **\fnumprint** $\{\langle number \rangle\}$ is like the **\fnumprintc** marco but it takes a number or a marco that expands to a number. A T_EX counter can also used with this marco.

3 Examples

marco	expanded marco
\fnumprint $\{-1\}$	−1
\fnumprint $\{0\}$	null
\fnumprint $\{10\}$	zehn
\fnumprint $\{12\}$	zwölf
\fnumprint $\{13\}$	13
\fnumprint $\{\backslash the \backslash year\}$	2012
\fnumprintc $\{page\}$	zwei

4 Implementation

4.1 The Usual

First the usual things.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{fnumprint}[2012/08/19 v1.0 Printing fancy (German) numbers]
```

The following definitions are based on these packages

```
3 \RequirePackage{xifthen}
4 \RequirePackage{zahl2string,numprint}
```

4.2 Marco definition

`\fnumprint` Here is the `\fnumprint` marco defined. It takes one not optional parameter. The parameter must be a number or a marco which expands to a number.

```
5 \DeclareRobustCommand{\fnumprint}[1]{%
6   \ifthenelse{#1 < 13}{%
7     \ifthenelse{#1 < 0}{%
8       \numprint{#1}%
9     }{%
10      \numstr{#1}%
11    }%
12  }{%
13    \numprint{#1}%
14  }%
15 }
```

`\fnumprintc` Here is the `\fnumprintc` marco defined. It takes one not optional parameter. The parameter must be the name of a counter.

```
16 \DeclareRobustCommand{\fnumprintc}[1]{%
17   \ifthenelse{\value{#1} < 13}{%
18     \ifthenelse{\value{#1} < 0}{%
19       \cntprint{#1}%
20     }{%
21       \numstring{#1}%
22     }%
23   }{%
24     \cntprint{#1}%
25   }%
26 }
27 \endinput
```