The fnumprint package*

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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 defineds 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 (not finish).

*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 LaTeX 2ε source file.

`\fnumprintc` The macro `\fnumprintc {`⟨*LaTeX counter name*⟩`}` takes a name of a LaTeX counter as its only not optional parameter and typesets it.

`\fnumprint` The macro `\fnumprint {`⟨*number*⟩`}` is like the `\fnumprintc` marco but it takes a number or a marco that expands to a number. A TeX counter can also used with this marco.

3 Examples

marco	**expanded marco**
`\fnumprint{-1}`	−1
`\fnumprint{0}`	zero
`\fnumprint{10}`	ten
`\fnumprint{12}`	twelve
`\fnumprint{13}`	13
`\fnumprint{\the\year}`	2 012
`\fnumprintc{page}`	two

4 Implementation

The following definitions are based on these packages

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


\renewcommand{\ns@neunzehn}[1]{%
\ifcase#1\@empty\or one\or two\or three\or four\or five\or six\or%
seven\or eight\or nine\or ten\or eleven\or twelve\or thirteen\or%
fourteen\or fifteen\or sixteen\or seventeen\or%
eighteen\or nineteen\fi%
}
\renewcommand{\ns@neunzehns}[1]{%
\ifcase#1\@empty\else\ns@neunzehn{#1}\fi%
}
\renewcommand{\@numstring}[1]{%
\ns@numstr{#1}\ns@neunzehns{zero}{}%
}
\let\numstr\@numstring%

```

4.1 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.

```
\DeclareRobustCommand{\fnumprint}[1]{%
  \ifthenelse{#1 < 13}{%
    \ifthenelse{#1 < 0}{%
      \numprint{#1}%
    }{%
      \numstr{#1}%
    }%
  }{%
    \numprint{#1}%
  }%
}
```

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

```
\DeclareRobustCommand{\fnumprintc}[1]{%
  \ifthenelse{\value{#1} < 13}{%
    \ifthenelse{\value{#1} < 0}{%
      \cntprint{#1}%
    }{%
      \numstring{#1}%
    }%
  }{%
    \cntprint{#1}%
  }%
}
\endinput
```

Change History

v1.0

General: Initial version 1

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