

# The `sepnum` package\*

Separated numbers

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This package provides a means of formatting numbers with (a) a decimal separator different of the default (‘.’) and (b) a separator (default ‘,’) every three digits.

First version of this package was posted to the newsgroup ‘`de.comp.tex`’ November 6th, 1995 (as ‘`printnum.sty`’).

## 1 Licensing condition

This program may be redistributed and/or modified under the terms of the L<sup>A</sup>T<sub>E</sub>X Project Public License, either version 1.0 of this license, or (at your option) any later version. The latest version of this license is in `CTAN:macros/latex/base/lppl.txt`.

## 2 Usage

The macro

```
\sepnum{<c>}{<sb>}{<sac>}{<number>}
```

produces the `<number>` with the decimal point replaced by `<c>` and the separator `<sb>` every three digits in the integer part, the separator `<sac>` every three digits in the fractional part of `<number>`. `\sepnum` is *fully expandable* and *not fragile*, unless one of `<c>`, `<sb>`, or `<sac>` is.

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\*This manual corresponds to `sepnum` v2.0, dated 1996/09/05.

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### Example:

- a non realistic example to show the capabilities of `\sepnum`  
`\sepnum{,}{*}{-}{1234.5678} ⇒ 1*234,567-8`
- to print a number inserting small spaces each three digits  
`\sepnum{.}{\,}{\,}{1234.5678} ⇒ 1 234.567 8`

Additionally this package provides

```
\sepnumform{<c>}{<sb>}{<sac>}{<LATEX-counter>}
```

to use `\sepnum` with a `LATEX` counter.

### Example (with a decimal comma in the print form `\the<counter>`):

```
1 \newcounter{money}
2 \renewcommand{\themoney}{\sepnumform{,}{.}{-}{money}}
3
4 \setcounter{money}{-1000}
5 You have \themoney{} left.
```

(For compatibility with ‘`printnum.sty`’, the macros `\printnum{<number>}` and `\printnumKomma/\printnumTrenner` still exist.)

## 3 See also

- Package “`comma.sty`” by David Carlisle which provides similar features for integers only, i. e. it misses support for the decimal point/comma in fixed point numbers.
- Package “`numprint.sty`” by Harald Harders supporting formatting of numbers given as `1234e5` in addition.