# The ifmtarg package

Author: Donald Arseneau, and Peter Wilson, Herries Press Maintainer: Will Robertson will dot robertson at latex-project dot org

v1.2a 2009/09/02

#### 1 Documentation

The ifmtarg package provides an if—then—else programmer's command \@ifmtarg for testing for an empty macro argument. 'Empty' here refers to an argument of zero or more spaces only. The command is fully expandable; its syntax is:

A variation is provided, \@ifnotmtarg, to be used when only the 'false' branch is required. It is slightly more efficient when code is only required for a non-empty argument.

 $\ensuremath{\mbox{\tt 0}} finite targ{\langle arg \rangle} {\langle Code for arg not empty \rangle}$ 

### 2 Examples

\isnotempty{E}

### 3 History

(*Peter's comments follow*.) In an Email to me on 13 March 2000, Donald Arseneau pointed out some failings with my original definition of the \@ifmtarg command:

```
\newcommand{\@ifmtarg}[3]{%
\edef\@mtarg{\zap@space#1 \@empty}%
\ifx\@empty\@mtarg\relax #2\else #3\fi}
```

It works most of the time correctly but Donald showed that it can give unexpected results under conditions that I had not thought of. He suggested the coding that now appears in the package above for the \@ifmtarg and \@ifnotmtarg commands. For a discussion on detecting empty arguments see CTAN/info/aro-bend/answer.002

## Change History

v1.2a New maintainer (Will Robertson)

## Licence and copyright

This work may be modified and/or distributed under the terms and conditions of the LATEX Project Public License<sup>2</sup>, version 1.3c or later (your choice). The current maintainer of this work is Will Robertson.

Copyright Peter Wilson, 1996 Copyright Peter Wilson and Donald Arseneau, 2000

<sup>&</sup>quot;If you need a command to test for emptiness that doesn't include spaces, use the \tl\_if\_empty:nTF conditional from the expl3 package. \@ifmtarg is equivalent to expl3's \tl\_if\_blank:nTF.

<sup>2</sup>http://www.latex-project.org/lppl.txt

# 4 Implementation

LaTeX2e file 'ifmtarg.sty' generated by the 'filecontents' environment from source 'ifmtarg' on 2010/07/10.

- NeedsTeXFormat{LaTeX2e}
- $\label{eq:providesPackage{ifmtarg}[2009/09/02\_v1.2a\_check\_for\_an\_empty\_argument]} \\$
- 3 \begingroup
- \catcode'\Q=3
- 6 \long\gdef\@xifmtarg#1#2Q#3#4#5\@ni1{#4}
- 8 \endgroup
- , \endinput

 $\langle eof \rangle$