# The ifmtarg package

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#### 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.¹ 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.

 $\ensuremath{\mbox{\tt @ifnotmtarg}\{\langle arg\rangle\}\{\langle Code\ for\ not\ empty\rangle\}}$ 

## 2 Examples

\newcommand\isempty[1]{\@ifmtarg{#1}{YES}{NO}}

\newcommand\isnotempty[1]{\@ifnotmtarg{#1}{YES}}

### 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)

v1.2b Typo in documentation example code

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<sup>&</sup>lt;sup>1</sup>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