

# The LaTeX macro package `tmmaths`

Walter Schmidt\*

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## 1 The TM-Math font set

MicroPress' TM-Math font set extends the Adobe Times typefaces:

- Additional text and text companion symbols make the full OT1 and T1 character sets and a subset of the text companion symbols available, including the Euro sign. With LaTeX, the enhanced Times typefaces are provided as a font family named `tmr`.
- Several math fonts, matching the 'Times' style, are provided to support all of TeX's math typesetting capabilities and fully replace the default Computer Modern fonts.

## 2 The package `tmmaths`

Loading the package `tmmaths`

```
\usepackage{tmmaths}
```

makes LaTeX use the Times and TM-Math fonts: The default roman text font family (`\rmdefault`) is changed to `tmr`, i.e. enhanced Adobe Times, and the math fonts are changed to TM-Math. Notice that the `\mathsf` and `\mathtt` alphabets remains unchanged, i.e., CM Sans Serif and CM Typewriter.

### 2.1 Font encoding

The package does *not* change the default output font encoding from OT1. It is, however, recommended to switch to the extended T1 and TS1 encodings, so as to provide access all glyphs. This is enabled by the following additional commands:

```
\usepackage[T1]{fontenc}  
\usepackage{textcomp}
```

### 2.2 The `slantedGreek` option

When the macro package is loaded using the option `[slantedGreek]`, uppercase Greek letters in math will, by default, be slanted.

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\*w.a.schmidt@gmx.net

## 2.3 Upright Greek

A full upright Greek alphabet is made available. The macros `\upalpha`, `\upbeta` ... `\upGamma`, `\upDelta` etc. always produce upright Greek letters, regardless of the `slantedGreek` option.

## 2.4 Bold italic letters in formulas

The `tmmaths` package provides a ***bold italic*** math alphabet `\mathbold`. It includes both Latin and Greek. (Do not mix this up with `\mathbf`, which implements the **bold upright** text font for use in math!)

## 2.5 Using the AMS math symbol fonts

The TM-Math font set includes matching AMS symbol fonts, too. LaTeX will use these, if the package `amssymb` is loaded in conjunction with `tmmaths`. The sequence of loading does not matter.

## 2.6 Changes over `tmmath.sty`

As compared with MicroPress' original `tmmath.sty`, this package provides a number of improvements:

- the option `slantedGreek`
- support for a full upright Greek alphabet, without loading any additional package
- AMS symbols can be used by just loading the package `amssymb`; no extra packages are needed, and the sequence of loading does not matter.

# 3 Availability and support

The latest versions of these packages can be obtained from the directory `macros/latex/contrib/psnfssx/tmmath` of any CTAN host.

The TM-Math fonts are provided by

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6830 Harrow Street  
Forest Hills NY 11375  
USA  
<<http://www.micropress-inc.com>>.

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