

The `mystyletau` package

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1 Introduction

The `mystyletau` package introduces two custom glyphs for the letter τ . While the standard notation for a topological space (X, τ_X) is functional, the authors believe these variants offer superior aesthetic appeal for denoting topologies or algebraic structures.

2 New in Version 2.1

Version 2.1 expands engine compatibility to make the package fully universal across all major TeX distribution engines:

- **Universal Engine Support:** Works seamlessly with `pdflatex`, `lualatex`, and `xelatex` without requiring any engine-specific options or conditional code in user documents.
- **Dynamic Engine Detection:** Utilizes the `iftex` package to transparently switch rendering backends depending on the active compiler.
- **Dual Rendering Backend:** Uses native TrueType font loading (`mytautwo.ttf` via `fontspec`) under LuaLaTeX and XeLaTeX, and high-quality vector fallbacks (`vtau.pdf` and `atau.pdf`) under pdfLaTeX.
- **Consistent Features:** Preserves auto-scaling in subscripts/superscripts, color support via `xcolor`, and math/text mode independence across all engines.

3 Usage

Simply include the package in your preamble:

```
\usepackage{mystyletau}
```

The package works out of the box regardless of whether you compile with `pdflatex`, `lualatex`, or `xelatex`. The following commands provide access to the custom glyphs:

- `\vtau`: $\wp$
- `\atau`: $\wp$

4 Examples

Consider the following statements to compare the visual impact:

1. Standard: Let (X, τ_X) be a topological space.
2. Variant A: Let $(X, \wp_X)$ be a topological space.
3. Variant B: Let $(X, \wp_X)$ be a topological space.

The authors suggest that notations like $(X, \wp_X)$ and $(X, \wp_X)$ provide a more elegant visual impact compared to the standard Computer Modern (X, τ_X) .