# The fontaxes package (deprecated)

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#### **Abstract**

**Deprecated:** The fontaxes package simulates multiple independent font selection axes on top of certain single NFSS axes: base family, figure style, and figure alignment on top of family; primary shape and secondary shape on top of shape; and math weight and math figure alignment on top of math version.

### 1 Introduction

When this package was conceived, LaTeX support for fonts with italic small-caps or swash capitals was limited and choosing such a font shape was only possible using the low-level command \fontshape. This package simplified access to such shapes by introducing new commands like \swshape and making combinations like \itshape\scshape work. With LaTeX release 2020-02-02, that functionality was integrated into the kernel [1], so this package has lost its main raison d'être. However, switching between different figure versions is still a hassle with LaTeX's font selection scheme [2], so all commands defined by fontaxes that deal with figure versions (e.g. \lnfigures and \tbfigures) have been incorporated into a new package called figureversions<sup>1</sup>, released in April 2025.

For backwards compatibility and for ensuring a smooth transition, the fontaxes package has also been rewritten and is now a thin wrapper around the figureversions package, providing additional commands like \fontprimaryshape, which have been used in documents and (font) packages in the wild.

## 2 Migration to figureversions

As a document author, if you have explicitly loaded fontaxes, you can almost surely just replace \usepackage{fontaxes} by \usepackage{figureversions}. Only if you have used \fontprimaryshape or \fontsecondaryshape in your document, you need to replace that by the standard \( \text{MTFX} \) command \fontshape.

As a font package author, you might have used the command \fa@naming@exception to define a new figure version like so:

https://ctan.org/pkg/figureversions

With the figureversions package, you can replace both commands with a a single call to \figureversions\_new\_figurestyle:nnn. Since this is a LaTEX3 command, you need to enter LaTEX3 mode though:

Note that there is no equivalent for other calls to \fa@naming@exceptions, which have no effect in this version of fontaxes anyway.

### References

- [1] LaTEX News. Issue 31, February 2020. https://www.latex-project.org/news/latex2e-news/ltnews31.pdf
- [2] LaTeX Project Team: LaTeX  $2_{\mathcal{E}}$  font selection. https://www.latex-project.org/help/documentation/fntguide.pdf