

The `eule` package

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1 Introduction

This \LaTeX package provides the font declarations needed to access the `eule` font family in terms of `NFSS2`, the font selection scheme used in $\text{\LaTeX} 2_{\epsilon}$. It also provides a package file that illustrates how to define the Eule logo and some appropriate font changing commands in these terms.

`\eulefamily` Once you have installed the font definition file `ueule.fd` provided here, you can
`\texteule` use low-level \LaTeX font commands to access the `eule` fonts in your documents,
even if you do not plan to use the package file `eule.sty`. Apart from defining the Eule logo in terms of \LaTeX font commands this package file also provides a declarative font changing command `\eulefamily` and a font changing command `\texteule` that takes one argument.

2 The Eule source files

In this package, we assume that your \TeX distribution includes the METAFONT sources for the `eule` font family. These consists of the METAFONT program file `eule.mf` and a METAFONT driver file.

The METAFONT source for this font shape is distributed separately with this package since we want to avoid the overhead of `DOCSTRIP` headers in such a trivial file, which would result if it were generated from the same `.dtx` file as the \LaTeX font definitions and the package file.

3 Hello, World!

First, we announce the package and the font definition file.

```
1 \package\NeedsTeXFormat{LaTeX2e}[1994/06/01]
2 \package\ProvidesPackage{eule}
3 \eule\ProvidesFile{ueule.fd}
4 \+package[2003/03/05 v1.0 LaTeX package for University of the Saarland logo (Eule)]
5 \-package[2003/03/05 v1.0 LaTeX font defs for the Eule logo]
```

4 The font definition file: `ueule.fd`

The first thing to do is to declare a new font family `eule` using an appropriate encoding scheme. The `eule` fonts have the font encoding scheme "E only". Clearly,

this is a well-defined encoding scheme, but not one of those presently supported in L^AT_EX. Therefore, we will use the encoding scheme ‘U’ for the font family `eule`.

```
6 < *ueule>
7 \DeclareFontFamily{U}{eule}{}

```

4.1 Font shape declarations for medium series

Now, we will discuss the font shape declarations for the medium series. We will support sizes in the range from 8pt up to magstep 5, which should be sufficient to cover the range from `\footnotesize` to `\Huge`.

```
8 \DeclareFontShape{U}{eule}{m}{n}{
9 <-> eule
10 }{}
11 \DeclareFontShape{U}{eule}{m}{it}{
12 <-> ssub * eule/m/n
13 }{}
14 \DeclareFontShape{U}{eule}{m}{sl}{
15 <-> ssub * eule/m/n
16 }{}
17 </ueule>

```

5 The package file: `eule.sty`

After having discussed the font definition file, we now turn to the package file that shows how to access the `eule` font family by defining high-level macros based on the low-level L^AT_EX font commands.

`\logofamily` First, we define the declarative font changing command `\eulefamily`. This is accomplished using the low-level font commands `\fontencoding` and `\fontfamily` followed by `\selectfont`. If `\eulefamily` is encountered in math mode, an error message will be issued.

```
18 < *package>
19 %\DeclareRobustCommand\eulefamily{%
20 % \not@math@alphabet\eulefamily\relax
21 % \fontencoding{U}\fontfamily{eule}\selectfont}
22 \newcommand{\eulefamily}{\usefont{U}{eule}{m}{n}}

```

`\textlogo` Next, we define a font changing command `\textlogo` with one argument using `\DeclareTextFontCommand` also provided in the latest L^AT_EX 2_ε release.

```
23 \DeclareTextFontCommand{\texteule}{\eulefamily}

```

`\EULE` Finally, we define a macro for the Eule logo.

```
24 \newfont{\eule}{eule scaled \magstep0}
25 \def\EULE{\eule I}
26 </package>

```

In order to fix the space factor after the logos in all uppercase letters, we better add `\@`, which expands to `\spacefactor\@m`, at the end of our macro definitions. This is exactly how it is done for the `\TeX` and `\LaTeX` logos in the L^AT_EX 2_ε sources (see `ltspace.dtx` and `ltlogos.dtx`).