

# The `la` package\* for use with L<sup>A</sup>T<sub>E</sub>X<sub>2</sub> $\epsilon$

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## 1 Introduction

The fonts `la` and `lla` provide glyphs for producing a handwritten writing as taught in primary school. These fonts have been written by Johannes Heuer. They can be found on the CTAN in the directory `tex-archive/fonts/calligra`. This package provides means to use those fonts in L<sup>A</sup>T<sub>E</sub>X<sub>2</sub> $\epsilon$ .

## 2 Usage

This file can be used as a package by placing its name in the argument of `\usepackage`. Afterwards the font families `la` and `lla` are defined. This could also have been done by providing two font definition files.

The font definitions in this file scale down the original fonts to L<sup>A</sup>T<sub>E</sub>X choose the right baselineskip. The original size of the `la` fonts can be selected with the commands `\LARGE\la` or `\LARGE\lla`.

<code>\la</code>	The command <code>\la</code> changes the current font family to <code>la</code> and the encoding to T1. Usually this should be used in a T <sub>E</sub> X group only.
<code>\textla</code>	This macro typesets its argument in the <code>la</code> font.
<code>\lla</code>	The command <code>\lla</code> changes the current font family to <code>lla</code> and the encoding to T1. Usually this should be used in a T <sub>E</sub> X group only.
<code>\textlla</code>	This macro typesets its argument in the <code>lla</code> font.
<code>\llafill</code>	The command <code>\llafill</code> fills the rest of the line with lines as used in the <code>lla</code> font. The result may be unexpected if not used where the font family is not <code>lla</code> .
<code>\lla\line</code>	The command <code>\lla\line</code> takes its argument and adds lines as used in the <code>lla</code> font underneath. This is similar to the <code>\underline</code> macro.

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\*This file has version number v1.2, dated 1996/07/18.

### 3 Implementation

First we declare a new font family for the la font.

```
1 \DeclareFontFamily{T1}{la}{}
```

This font is only available in the normal shape. Here we can get the desired font by (silently) scaling the only present la14. Since the design size is 14 we have to scale down the font by  $1/14 = 0.71428571$ .

```
2 \DeclareFontShape{T1}{la}{m}{n}{<->s*[0.71428571]la14}{}
```

Now we define the next font family for the font with lines in the background.

```
3 \DeclareFontFamily{T1}{lla}{}
```

This font is only available in the normal shape. Here we can get the desired font by (silently) scaling the only present lla14. Since the design size is 14 we have to scale down the font by  $1/14 = 0.71428571$ .

```
4 \DeclareFontShape{T1}{lla}{m}{n}{<->s*[0.71428571]lla14}{}
```

Now we define font changing commands.

`\la` The macro `\la` selects the la family.

```
5 \DeclareRobustCommand\la{\fontfamily{la}\fontencoding{T1}\selectfont}
```

`\textla` The macro `\textla` typesets its arguments in the la font.

```
6 \newcommand\textla[1]{\begingroup
7 \fontfamily{la}\fontencoding{T1}\selectfont #1\endgroup}
```

`\lla` The macro `\lla` selects the lla family.

```
8 \DeclareRobustCommand\lla{\fontfamily{lla}\fontencoding{T1}\selectfont}
```

`\textlla` The macro `\textlla` typesets its arguments in the lla font.

```
9 \newcommand\textlla[1]{\begingroup
10 \fontfamily{lla}\fontencoding{T1}\selectfont #1\endgroup}
```

`\llafill` The macro `\llafill` is modeled after the macro `\underline`. The symbol 24 in the lla font provides just the lines.

```
11 \newcommand\llafill{\leaders\hbox{\kern.2em\symbol{24}}\hfill\symbol{24}}
```

`\llaline` The macro `\llaline` packs its argument into a box. Then a box of the same size is filled with empty lines and the original box is typeset in a box of width 0 afterwards.

```
12 \newcommand\llaline[1]{%
13 {\lla\symbol{24}}%
14 \mbox{\setbox0=\hbox{#1}\hbox to \wd0{\llafill}\llap{\usebox0}}}
```

`llapar` This environment typesets one or more paragraphs with the lla font. The `\llaline` instructions are inserted automatically at the end of each paragraph.

```
15 \newenvironment{llapar}{\par\begingroup\lla
16 \let\lla@par=\par
17 \def\par{\llafill\lla@par}}{\par\endgroup}
```