

The L^AT_EX 2_ε package ccfonts

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1 Prerequisites

In order to make use of the package `ccfonts`, the following fonts and `.fd` files are required:

- The Concrete text fonts with traditional encoding (CTAN: `fonts/concrete/`)
- The Concrete text fonts with European encoding (CTAN: `fonts/ecc/`)
- The mathematical Concrete fonts (CTAN: `fonts/concmath/`)
- The `.fd` files for the traditional and mathematical Concrete fonts (CTAN: `macros/latex/contrib/supported/concmath/`)
- The `.fd` files for the European Concrete fonts, which are distributed and installed in conjunction with the `ccfonts` package

On CTAN the fonts are available in METAFONT format. The Concrete typefaces are also provided in Type1 format from Micropress Inc, see <http://www.micropress-inc.com>.

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2 Using the package

The \LaTeX macro package `ccfonts` supports typesetting with the font family ‘Concrete’. Loading this package through

```
\usepackage{ccfonts}
```

will effect the following:

- The default roman font family is changed to `ccr`, i.e. Concrete.
- The default leading (`\baselineskip`) for the font sizes 8–12pt is increased slightly.
- The ‘Concrete’ fonts are used in math mode, too.
- The packages `amsfonts` or `amssymb`, if loaded additionally, will use the Concrete versions of the AMS symbol fonts.

Notice that you may still have to specify the option `psamsfonts` for these packages, so as to prevent them from using design sizes of the Euler Fraktur fonts, which may be unavailable within your TeX system; this works flawlessly with version 1.1 of the `ccfonts` package now. (You need not care for this subject, unless Euler Fraktur is actually used.)

2.1 Package options

`boldsans` The semibold series of CM Sans is used as a replacement for the missing bold series of Concrete. (The default behaviour is to use the bold extended version of CM Roman.)

`standard-baselineskips` disables the increased leading. This can be useful, e.g., when typesetting in narrow columns.

`exscale` implements scaling of the math extension font. For a discussion of this feature see the file `exscale.dtx`.

`slantedGreek` makes uppercase Greek letters slanted by default. Regardless of this option, the new commands `\upDelta` and `\upOmega` will always produce an upright Δ and Ω .

2.2 Font encoding

The package does *not* change the default output font encoding from OT1. Switching to the extended T1 and TS1 encodings needs the following additional commands:

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

3 Known problems

- There are no bold math fonts available.
- In order to enlarge the default `\baselineskip`, the size-changing macros have been redefined, and they are no longer as robust as the original definitions. This may result in \LaTeX errors with ‘moving arguments’. As a workaround, you may protect any font-related commands in moving arguments with a `\protect` command. In case this does not help, the package should be loaded with the option `standard-baselineskips` which will prevent the commands from being redefined; you will, however, have to care for an appropriate line spacing by other means then.

4 NFSS classification of the Concrete typefaces

encoding	family	series	shape(s)
<i>Concrete</i>			
OT1, T1, TS1	ccr	m	n, sl, it, sc
OT1	ccr	c	sl
<i>Concrete Math</i>			
OML	ccm	m	it
OMS	ccsy	m	n
OMX	ccex	m	n
<i>Concrete AMS A, B</i>			
U	msa	m	n
U	msb	m	n

Notice, that

- the series c (condensed) is available as slanted and with a font size of 9 pt only;
- the Concrete AMS fonts are only defined through the package `ccfonts`, i.e., there are no related `.fd` files.