

The ocr package

L^AT_EX support for the OCR fonts (Optical Character Recognition fonts)

version 1.0 September 22, 2006

Palle Jørgensen

1 Introduction

The `ocr` package provides support for the OCR fonts. The OCR fonts are already installed on many systems, this is only support for using the OCR fonts with L^AT_EX.

The license of the `ocr` package and the related files is GNU General Public License.

2 Using the ocr package

2.1 Package options

The ocr package has the following options

Option:	Effect:	Example	Comments:
<code>ocr-a</code>	Selects the OCR font to be OCR-A	123	
<code>ocr-b</code>	Selects the OCR font to be OCR-B	123	Default
<code>ocr-b-outline</code>	Selects the OCR font to be an outline of OCR-B	123	
<code>ocr-b-negative</code>	Selects the OCR font to be a negative OCR-B	123	
<code>ocr-b-sharp</code>	Selects the OCR font to be a “sharp” OCR-B	123	The sharp fonts are not constructed properly. Use with care
<code>ocr-b-sharp-negative</code>	Selects the OCR font to be a negative “sharp” OCR-B	123	The sharp fonts are not constructed properly. Use with care

2.2 Commands

If you want some text typeset with the selected OCR font for a short text you can use the command `\ocr`; ie. `\ocr{cheese}`.

It is possible to use the command `\ocrfamily` but this command also changes the current fontencoding; use with caution...

2.2.1 Negative fonts

If you have selectec the option `ocr-b` or `ocr-b-sharp` it is possible to use the command `\ocrneg` which typesets the text with the “negative” of the selected OCR font.

3 Source of the files in the OCR bundle

3.1 ocr.sty

```
\ProvidesPackage{ocr}[2006/09/18 LaTeX support for the
various OCR
fonts. Created by Palle Jorgensen, hamselv@pallej.dk]

\RequirePackage{ifthen}

\def\ocrdefault{ocrb}
\DeclareOption{ocr-a}{\def\ocrdefault{ocra}}
\DeclareOption{oca}{\def\ocrdefault{oca}%
\PackageWarning{ocr}{The OCA fonts are buggy. Use the '
ocr-a' option
to get proper OCR-A fonts.^^J}}
\DeclareOption{ocr-b}{\def\ocrdefault{ocrb}}
\DeclareOption{ocr-b-outline}{\def\ocrdefault{ocrbo}}
\DeclareOption{ocr-b-negative}{\def\ocrdefault{ocrbn}}
\DeclareOption{ocr-b-sharp}{\def\ocrdefault{ocrbs}%
\PackageWarning{ocr}{The sharp OCR-B fonts are buggy.
Use with care.^^J}}
\DeclareOption{ocr-b-sharp-negative}{\def\ocrdefault{
ocrbns}%
\PackageWarning{ocr}{The sharp OCR-B fonts are buggy.
Use with care.^^J}}
\ProcessOptions*

\def\ocrfamily{\fontencoding{OT1}\fontfamily{\ocrdefault
}\selectfont}
\DeclareTextFontCommand{\ocr}{\ocrfamily}

\def\ocrnegfamily{%
\ifthenelse{\equal{\ocrdefault}{ocrb}}{\}{%
\PackageWarning{ocr}{%
Using the 'negative OCR-B' fonts without using the\
MessageBreak
OCR-B fonts may give a funny result.^^J}}
\fontencoding{OT1}\fontfamily{ocrbn}\selectfont}

\def\ocrs@negfamily{%
\ifthenelse{\equal{\ocrdefault}{ocrbs}}{\}{%
\PackageWarning{ocr}{%
Using the 'negative OCR-B Sharp' fonts without
using the\MessageBreak
OCR-B Sharp fonts may give a funny result.^^J}}
```

```

\fontencoding{OT1}\fontfamily{ocrbns}\selectfont}

\ifthenelse{\equal{\ocrdefault}{ocrbns}}{\%
\def\ocrnegfamily{\ocrs@negfamily}}{\%}

\DeclareTextFontCommand{\ocrneg}{\ocrnegfamily}

\endinput

```

3.2 ot1oca.fd

```

\ProvidesFile{ot1oca.fd}[2006/09/18 Font definitions for
the OCA fonts. Look in ocr.sty for further information
.]

```

```

\DeclareFontFamily{OT1}{oca}{}
\DeclareFontShape{OT1}{oca}{m}{n}{%
<5><6><7><8><9><10><10.95>ocra10%
<12><14.4>ocra12%
<17.28><20.74><24.88>ocra17}{}

\DeclareFontShape{OT1}{oca}{m}{it}{<->ssub * oca/m/n}{}
\DeclareFontShape{OT1}{oca}{m}{sl}{<->ssub * oca/m/n}{}
\DeclareFontShape{OT1}{oca}{m}{sc}{<->ssub * oca/m/n}{}
\DeclareFontShape{OT1}{oca}{b}{n}{<->ssub * oca/m/n}{}
\DeclareFontShape{OT1}{oca}{b}{it}{<->ssub * oca/m/it}{}
\DeclareFontShape{OT1}{oca}{b}{sl}{<->ssub * oca/m/sl}{}
\DeclareFontShape{OT1}{oca}{b}{sc}{<->ssub * oca/m/sc}{}
\DeclareFontShape{OT1}{oca}{bx}{n}{<->ssub * oca/b/n}{}
\DeclareFontShape{OT1}{oca}{bx}{it}{<->ssub * oca/b/it}{}
\DeclareFontShape{OT1}{oca}{bx}{sl}{<->ssub * oca/b/sl}{}
\DeclareFontShape{OT1}{oca}{bx}{sc}{<->ssub * oca/b/sc}{}
\endinput

```

3.3 ot1ocra.fd

```

\ProvidesFile{ot1ocra.fd}[2006/09/18 Font definitions for
the OCR-A fonts. Look in ocr.sty for further
information.]

```

```

\DeclareFontFamily{OT1}{ocra}{}
\DeclareFontShape{OT1}{ocra}{m}{n}{%
<5><6><7><8><9><10><10.95>ocr10%
<12><14.4>ocr12%
<16><17.28><20.74><24.88>ocr16}{}

```

```

\DeclareFontShape{OT1}{ocra}{m}{it}{<->ssub * ocra/m/n}{}
\DeclareFontShape{OT1}{ocra}{m}{sl}{<->ssub * ocra/m/n}{}
\DeclareFontShape{OT1}{ocra}{m}{sc}{<->ssub * ocra/m/n}{}
\DeclareFontShape{OT1}{ocra}{b}{n}{<->ssub * ocra/m/n}{}
\DeclareFontShape{OT1}{ocra}{b}{it}{<->ssub * ocra/m/it}{}
\DeclareFontShape{OT1}{ocra}{b}{sl}{<->ssub * ocra/m/sl}{}
\DeclareFontShape{OT1}{ocra}{b}{sc}{<->ssub * ocra/m/sc}{}
\DeclareFontShape{OT1}{ocra}{bx}{n}{<->ssub * ocra/b/n}{}
\DeclareFontShape{OT1}{ocra}{bx}{it}{<->ssub * ocra/b/it}{}
\DeclareFontShape{OT1}{ocra}{bx}{sl}{<->ssub * ocra/b/sl}{}
\DeclareFontShape{OT1}{ocra}{bx}{sc}{<->ssub * ocra/b/sc}{}
\endinput

```

3.4 ot1ocrb.fd

```

\ProvidesFile{ot1ocrb.fd}[2006/09/18 Font definitions for
the OCR-B fonts. Look in ocr.sty for further
information.]

\DeclareFontFamily{OT1}{ocrb}{}
\DeclareFontShape{OT1}{ocrb}{m}{n}{%
<5>ocrb5%
<6>ocrb6%
<7>ocrb7%
<8>ocrb8%
<9>ocrb9%
<10><10.95><12><14.4><17.28><20.74><24.88>ocrb10}{}

\DeclareFontShape{OT1}{ocrb}{m}{sl}{%
<5><6><7><8><9><10><10.95><12><14.4><17.28><20.74><24.88>
ocrb101}{}

\DeclareFontShape{OT1}{ocrb}{m}{it}{<->ssub * ocrb/m/sl}{}

```

```

\DeclareFontShape{OT1}{ocrb}{m}{sc}{<->ssub * ocrb/m/n}{}
\DeclareFontShape{OT1}{ocrb}{b}{n}{<->ssub * ocrb/m/n}{}
\DeclareFontShape{OT1}{ocrb}{b}{sc}{<->ssub * ocrb/m/n}{}
\DeclareFontShape{OT1}{ocrb}{b}{sl}{<->ssub * ocrb/m/sl}{}
\DeclareFontShape{OT1}{ocrb}{b}{it}{<->ssub * ocrb/m/it}{}
\DeclareFontShape{OT1}{ocrb}{bx}{n}{<->ssub * ocrb/b/n}{}
\DeclareFontShape{OT1}{ocrb}{bx}{sc}{<->ssub * ocrb/b/sc}{}
\DeclareFontShape{OT1}{ocrb}{bx}{sl}{<->ssub * ocrb/b/sl}{}
\DeclareFontShape{OT1}{ocrb}{bx}{it}{<->ssub * ocrb/b/it}{}
\endinput

```

3.5 ot1ocrbn.fd

```

\ProvidesFile{ot1ocrbn.fd}[2006/09/18 Font definitions for
the OCR-B negative font. Look in ocr.sty for further
information.]

\DeclareFontFamily{OT1}{ocrbn}{}
\DeclareFontShape{OT1}{ocrbn}{m}{n}{%
<5><6><7><8><9><10><10.95><12><14.4><17.28><20.74><24.88>
ocrb10x}{}

\DeclareFontShape{OT1}{ocrbn}{m}{it}{<->ssub * ocrbn/m/n}{}
\DeclareFontShape{OT1}{ocrbn}{m}{sl}{<->ssub * ocrbn/m/n}{}
\DeclareFontShape{OT1}{ocrbn}{m}{sc}{<->ssub * ocrbn/m/n}{}
\DeclareFontShape{OT1}{ocrbn}{b}{n}{<->ssub * ocrbn/m/n}{}
\DeclareFontShape{OT1}{ocrbn}{b}{sc}{<->ssub * ocrbn/m/n}{}
\DeclareFontShape{OT1}{ocrbn}{b}{sl}{<->ssub * ocrbn/m/
sl}{}
\DeclareFontShape{OT1}{ocrbn}{b}{it}{<->ssub * ocrbn/m/
it}{}

```

```

\DeclareFontShape{OT1}{ocrbn}{bx}{n}{<->ssub * ocrbn/b/n}{}
\DeclareFontShape{OT1}{ocrbn}{bx}{sc}{<->ssub * ocrbn/b/sc}{}
\DeclareFontShape{OT1}{ocrbn}{bx}{sl}{<->ssub * ocrbn/b/sl}{}
\DeclareFontShape{OT1}{ocrbn}{bx}{it}{<->ssub * ocrbn/b/it}{}
\endinput

```

3.6 ot1ocrbns.fd

```

\ProvidesFile{ot1ocrb.fd}[2006/09/18 Font definitions for
the OCR-B negative font with sharp corners. Look in
ocr.sty for further information.]

\DeclareFontFamily{OT1}{ocrbns}{}
\DeclareFontShape{OT1}{ocrbns}{m}{n}{%
<5><6><7><8><9><10><10.95><12><14.4><17.28><20.74><24.88>
ocrb10e}{}

\DeclareFontShape{OT1}{ocrbns}{m}{it}{<->ssub * ocrbns/m/n}{}
\DeclareFontShape{OT1}{ocrbns}{m}{sl}{<->ssub * ocrbns/m/n}{}
\DeclareFontShape{OT1}{ocrbns}{m}{sc}{<->ssub * ocrbns/m/n}{}
\DeclareFontShape{OT1}{ocrbns}{b}{n}{<->ssub * ocrbns/m/n}{}
\DeclareFontShape{OT1}{ocrbns}{b}{sc}{<->ssub * ocrbns/m/n}{}
\DeclareFontShape{OT1}{ocrbns}{b}{sl}{<->ssub * ocrbns/m/sl}{}
\DeclareFontShape{OT1}{ocrbns}{b}{it}{<->ssub * ocrbns/m/it}{}
\DeclareFontShape{OT1}{ocrbns}{bx}{n}{<->ssub * ocrbns/b/n}{}
\DeclareFontShape{OT1}{ocrbns}{bx}{sc}{<->ssub * ocrbns/b/sc}{}
\DeclareFontShape{OT1}{ocrbns}{bx}{sl}{<->ssub * ocrbns/b/sl}{}
\DeclareFontShape{OT1}{ocrbns}{bx}{it}{<->ssub * ocrbns/b/it}{}
\endinput

```

3.7 ot1ocrbo.fd

```
\ProvidesFile{ot1ocro.fd}[2006/09/18 Font definitions for
the OCR-B outline fonts. Look in ocr.sty for further
information.]

\DeclareFontFamily{OT1}{ocrbo}{}
\DeclareFontShape{OT1}{ocrbo}{m}{n}{%
<5><6><7><8><9><10><10.95><12><14.4><17.28><20.74><24.88>
ocrb10f}{}

\DeclareFontShape{OT1}{ocrbo}{m}{sl}{%
<5><6><7><8><9><10><10.95><12><14.4><17.28><20.74><24.88>
ocrb10g}{}

\DeclareFontShape{OT1}{ocrbo}{m}{it}{<->ssub * ocrbo/m/
sl}{}
\DeclareFontShape{OT1}{ocrbo}{m}{sc}{<->ssub * ocrbo/m/n
}{}
\DeclareFontShape{OT1}{ocrbo}{b}{n}{<->ssub * ocrbo/m/n
}{}
\DeclareFontShape{OT1}{ocrbo}{b}{sc}{<->ssub * ocrbo/m/n
}{}
\DeclareFontShape{OT1}{ocrbo}{b}{sl}{<->ssub * ocrbo/m/
sl}{}
\DeclareFontShape{OT1}{ocrbo}{b}{it}{<->ssub * ocrbo/m/
it}{}
\DeclareFontShape{OT1}{ocrbo}{bx}{n}{<->ssub * ocrbo/b/n
}{}
\DeclareFontShape{OT1}{ocrbo}{bx}{sc}{<->ssub * ocrbo/b/
sc}{}
\DeclareFontShape{OT1}{ocrbo}{bx}{sl}{<->ssub * ocrbo/b/
sl}{}
\DeclareFontShape{OT1}{ocrbo}{bx}{it}{<->ssub * ocrbo/b/
it}{}
\endinput
```

3.8 ot1ocrbs.fd

```
\ProvidesFile{ot1ocrbs.fd}[2006/09/18 Font definitions
for the OCR-B font with sharps corners. Look in ocr.
sty for further information.]

\DeclareFontFamily{OT1}{ocrbs}{}
\DeclareFontShape{OT1}{ocrbs}{m}{n}{%
```

<5><6><7><8><9><10><10.95><12><14.4><17.28><20.74><24.88>
ocrb10s}{}

```
\DeclareFontShape{OT1}{ocrbs}{m}{it}{<->ssub * ocrbs/m/n}{}  
\DeclareFontShape{OT1}{ocrbs}{m}{sl}{<->ssub * ocrbs/m/n}{}  
\DeclareFontShape{OT1}{ocrbs}{m}{sc}{<->ssub * ocrbs/m/n}{}  
\DeclareFontShape{OT1}{ocrbs}{b}{n}{<->ssub * ocrbs/m/n}{}  
\DeclareFontShape{OT1}{ocrbs}{b}{sc}{<->ssub * ocrbs/m/n}{}  
\DeclareFontShape{OT1}{ocrbs}{b}{sl}{<->ssub * ocrbs/m/  
sl}{}  
\DeclareFontShape{OT1}{ocrbs}{b}{it}{<->ssub * ocrbs/m/  
it}{}  
\DeclareFontShape{OT1}{ocrbs}{bx}{n}{<->ssub * ocrbs/b/n}{}  
\DeclareFontShape{OT1}{ocrbs}{bx}{sc}{<->ssub * ocrbs/b/  
sc}{}  
\DeclareFontShape{OT1}{ocrbs}{bx}{sl}{<->ssub * ocrbs/b/  
sl}{}  
\DeclareFontShape{OT1}{ocrbs}{bx}{it}{<->ssub * ocrbs/b/  
it}{}  
\endinput
```