

mdput for mathematical typesetting with Adobe Utopia

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1 Introduction

The package `mdput` consists of a full set of mathematical fonts, designed to be combined with Adobe Utopia as the main text font¹. All the \TeX files needed are also provided, as well as some driver configuration files.

Provided fonts cover the full family of symbol of plain \TeX and \LaTeX , the full set of the American Mathematical Society (\mathcal{AMS}) symbols, the Ralph Smith's Formal Script symbol fonts (RSFS). Some extra symbol are also defined. Bold versions of all these symbols are provided.

All these symbols have been modified in shape (slightly), weight and size to match the Adobe Utopia font family.

This document describes the definition specific to the `mdput` font family. Please read `mathdesign-doc.pdf` for more informations.

1.1 Requirements

A complete \TeX installation is required. In particular, the Adobe Utopia font family *must* be already present on your system. It is probably the case, as these fonts are now distributed with all the main \TeX distribution.

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¹Adobe Utopia is the font used in this document.

You only need the binary outline font files of the Adobe Utopia font. If your T_EX hierarchy is TDS compliant, you will find these files in the directory

```
$TEXMF/fonts/type1/adobe/utopia
```

where \$TEXMF is the root of your T_EX hierarchy (e.g. /usr/local/texmf).

If these files are not present on your system, create the previous directory, download the following files

```
putr8a.pfb  putri8a.pfb  putb8a.pfb  putbi8a.pfb
```

from a CTAN repository² and place all the files in the directory.

A *recent* T_EX distribution is recommended (e.g. MikT_EX v2.2 or later, teT_EX v2.0 or later) as the configuration is really simple with the updmap utility.

1.2 The name of the game

The abbreviation mdput is a nickname for Math Design Adobe Utopia.

The first two letters (md) stand for the Math Design project. The last three letters are the nickname of Adobe Utopia using Karl Berry's fontname conventions.

1.3 Copyright notice

The fonts MathDesignPUT font family is the symbol font family provided by the Math Design project. This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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This is the copyright notice of the Adobe Utopia :

Please consider that Adobe Utopia is *not* a free font in the sense of the GNU Public Licence or other free software licence.

This is the copyright notice of these fonts:

```
Permission to use, reproduce, display and distribute the listed typefaces
is hereby granted, provided that the Adobe Copyright notice appears in all
whole and partial copies of the software and that the following trademark
symbol and attribution appear in all unmodified copies of the software:
```

```
Copyright (c) 1989 Adobe Systems Incorporated
```

```
Utopia (R)
```

```
Utopia is a registered trademark of Adobe Systems Incorporated
```

```
The Adobe typefaces (Type 1 font program, bitmaps and Adobe Font Metric
files) donated are:
```

```
Utopia Regular
```

```
Utopia Italic
```

```
Utopia Bold
```

```
Utopia Bold Italic
```

2 Installation

In the same directory as this documentation, you will find a README file. It deals with all the installation and system configuration process.

²you can search and download file from the CTAN web site <http://www.ctan.org/>

3 Usage and configuration

To use the `mdput` in your document simply add the following line:

```
\usepackage[adobe-utopia]{mathdesign}
```

in the preamble.

3.1 Configuration file

The configuration files `mdput.cfg` is loaded with the `mdput` package. You can put in these file all the commands that \TeX should load with `mdput`. Please see the `mdput.cfg` file provided for more informations.

A Font charts

mdput-Regular-OT1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	Φ	Ψ	Ω	ff	fi	fl	ffi	ffl	0
1	ı		`	´	˘	˙	-	˚	‚	ß	æ	œ	ø	Æ	Œ	Ø	1
2	⊗	!	”	#	\$	%	&	’	(	)	*	+	,	-	.	/	2
3	0	1	2	3	4	5	6	7	8	9	:	;	i	=	¿	?	3
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	4
5	P	Q	R	S	T	U	V	W	X	Y	Z	[	“	]	ˆ	˙	5
6	‘	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	6
7	p	q	r	s	t	u	v	w	x	y	z	-	—	”	˜	¨	7
8											Ł						8
A											ł						A
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: This is the standard TeX OT1 encoding. Italic, bold and bold italic versions are also available. The character `lslashslash` is missing.

mdput-Regular-T1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0	˘	˙	˚	ˇ	¨	˘	˙	˚	˘	˙	˚	˛	¸	ˆ	˜	˝	0
1	“	”	„	«	»	-	—		o	ı		ff	fi	fl	ffi	ffl	1
2	⌵	!	”	#	\$	%	&	’	(	)	*	+	,	-	.	/	2
3	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?	3
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	4
5	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	\]	^	_	5
6	‘	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	6
7	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	-	7
8	Ă	Ą	Ć	Č	Ď	Ě	Ě	Ě	Ĺ	Ł	Ł	Ń	Ń	⊗	Œ	Ŕ	8
9	Ř	Ś	Ŝ	Ş	Ť	Ť	Ů	Ů	Ÿ	Ž	Ž	Ž	IJ	ı	đ	Š	9
A	ă	ą	ć	č	d’	ě	ę	ğ	ĺ	ł	ł	ń	ň	⊗	œ	ř	A
B	ř	ś	ŝ	ş	t’	ť	ů	ű	ÿ	ž	ž	ž	ij	ı	¿	£	B
C	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï	C
D	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	Œ	Ø	Ù	Ú	Û	Ü	Ý	Þ	ŠS	D
E	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï	E
F	ð	ñ	ò	ó	ô	õ	ö	œ	ø	ù	ú	û	ü	ý	þ	ß	F
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: This is the standard TeX T1 encoding. Italic, bold and bold italic versions are also available. The characters `thorn` and `Thorn` are missing.

mdput-Regular-TS1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0																	0
1			”						←	→		,	‘	’			1
2					\$								,		.	/	2
3	0	1	2	3	4	5	6	7	8	9				—			3
4								Ω						∪			4
5															↑	↓	5
6			ø		†									∞			6
7																	7
8					†	‡	||	%_o	•					f			8
9								™									9
A			¢	£	¤	¥	¦	§		©	ª				®		A
B	°	±	²	³	µ	¶	·		*	¹	º	√	¼	½	¾	€	B
C																	C
D							x										D
E																	E
F							÷										F
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: This is the standard T_EX TS1 encoding. Many glyphs are missing. You must use the textcomp to have access to these symbols. Bold version is also available.

mdput-Regular-OML

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0	Γ	Δ	Θ	Λ	Ξ	Π	Σ	Υ	Φ	Ψ	Ω	α	β	γ	δ	ε	0
1	ζ	η	θ	ι	κ	λ	μ	ν	ξ	π	ρ	σ	τ	υ	φ	χ	1
2	ψ	ω	ε	ϑ	Ϙ	ρ	ς	φ	←	↔	→	↔	‘	’	▷	◁	2
3	0	1	2	3	4	5	6	7	8	9	.	,	<	/	>	*	3
4	∂	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	4
5	P	Q	R	S	T	U	V	W	X	Y	Z	ƒ	‡	#	∪	∩	5
6	ℓ	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	6
7	p	q	r	s	t	u	v	w	x	y	z	ι	J	ø	↔	ˆ	7
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: This is the standard T_EX OML encoding. As you can notice, the greek letters are upright, hence the name "Regular". Bold version is also available.

mdput-Italic-OML

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0	<i>Γ</i>	<i>Δ</i>	<i>Θ</i>	<i>Λ</i>	<i>Ξ</i>	<i>Π</i>	<i>Σ</i>	<i>Υ</i>	<i>Φ</i>	<i>Ψ</i>	<i>Ω</i>	<i>α</i>	<i>β</i>	<i>γ</i>	<i>δ</i>	<i>ε</i>	0
1	<i>ζ</i>	<i>η</i>	<i>θ</i>	<i>ι</i>	<i>κ</i>	<i>λ</i>	<i>μ</i>	<i>ν</i>	<i>ξ</i>	<i>π</i>	<i>ρ</i>	<i>σ</i>	<i>τ</i>	<i>υ</i>	<i>φ</i>	<i>χ</i>	1
2	<i>ψ</i>	<i>ω</i>	<i>ε</i>	<i>ϑ</i>	<i>Ϙ</i>	<i>ρ</i>	<i>ς</i>	<i>φ</i>	<i>←</i>	<i>↔</i>	<i>→</i>	<i>↔</i>	<i>‘</i>	<i>’</i>	<i>▷</i>	<i>◁</i>	2
3	<i>0</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>.</i>	<i>,</i>	<i><</i>	<i>/</i>	<i>></i>	<i>*</i>	3
4	<i>∂</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	4
5	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>	<i>T</i>	<i>U</i>	<i>V</i>	<i>W</i>	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>ƒ</i>	<i>‡</i>	<i>#</i>	<i>∪</i>	<i>∩</i>	5
6	<i>ℓ</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>	<i>j</i>	<i>k</i>	<i>l</i>	<i>m</i>	<i>n</i>	<i>o</i>	6
7	<i>p</i>	<i>q</i>	<i>r</i>	<i>s</i>	<i>t</i>	<i>u</i>	<i>v</i>	<i>w</i>	<i>x</i>	<i>y</i>	<i>z</i>	<i>ι</i>	<i>J</i>	<i>ø</i>	<i>↔</i>	<i>ˆ</i>	7
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: This is the standard T_EX OML encoding. This time, the greek letters are slanted. Bold version is also available.

mdput-Regular-OMS

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0	−	⋅	×	*	÷	◊	±	≠	⊕	⊖	⊗	⊘	⊙	◯	◦	•	0
1	<	≡	⊆	⊇	≤	≥	≲	≳	~	≈	⊂	⊃	⋈	⋉	⋊	⋋	1
2	←	→	↑	↓	↔	↗	↘	ℝ	⇐	⇒	↑	↓	↔	↗	↘	∝	2
3	/	∞	∈	∃	Δ	∇	/	⋅	∀	∃	¬	∅	ℵ	ℶ	ℷ	⊥	3
4	<i>X</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N</i>	<i>O</i>	4
5	<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>	<i>T</i>	<i>U</i>	<i>V</i>	<i>W</i>	<i>X</i>	<i>Y</i>	<i>Z</i>	U	∩	⊕	∧	∨	5
6	⊢	⊣	|	|	|	|	{	}	<	>	|	||	↕	↕	\	?	6
7	√	∏	∇	∫	⊔	⊓	⊔	⊔	§	†	‡	¶	♣	♦	♥	♠	7
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: This is the standard TeX OMS encoding. Bold version is also available.

mdput-Regular-OMX

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0	(	)	[	]	[	]	[	]	{	}	<	>	|	||	/	\	0
1	(	)	(	)	[	]	[	]	[	]	{	}	<	>	/	\	1
2	(	)	[	]	[	]	[	]	{	}	<	>	/	\	/	\	2
3	(	)	[	]	[	]	|	|	(	)	(	)	{	}	.	|	3
4	(	)	|	|	<	>	□	□	♯	♯	⊙	⊙	⊕	⊕	⊗	⊗	4
5	Σ	Π	∫	U	∩	⊕	∧	∨	Σ	Π	∫	U	∩	⊕	∧	∨	5
6	⏏	⏏	˘	˘	˘	˘	˘	˘	[	]	[	]	[	]	{	}	6
7	√	√	√	√	√	|	⏏	||	↑	↓	˘	˘	˘	˘	↑	↓	7
8	(	(	(	[	[	[	[	[	[	[	)	)	)	]	]	]	8
9	]	]	]	]	[	[	[	]	]	]	[	[	[	]	]	]	9
A	[	[	[	]	]	]	{	{	{	}	}	}	<	<	<	A	
B	⏏	⏏	⏏	⏏	||	||	>	>	>	[	]					B	
C	/	/	/	\	\	\	√	√	√							C	
D	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	D
E	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	E
F	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	˘	F
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: The upper part of this chart is the standard \TeX OMX encoding. The lower part contains additional big delimiters and wide accents.

mdput-Regular-MDA

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F		
0	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	0
1	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	1
2	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	2
3	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	3
4	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	4
5	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	5
6	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	6
7	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	7
8	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	8
9	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	9
A	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	A
B	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	B
C	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	C
D	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	D
E	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	E
F	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	F
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F		

Comment: This is the Math Design A encoding, corresponding to the two $\mathcal{A}\mathcal{M}\mathcal{S}$ fonts. Bold version is also available.

mdput-Regular-MDB

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0	€	∋	€	∄	⊥												0
1																	1
2																	2
3																	3
4	○																4
5																	5
6																	6
7																	7
8	f	f	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ					8
9																	9
A																	A
B																	B
C																	C
D																	D
E																	E
F																	F
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	

Comment: This is the Math Design B encoding, corresponding to the extra symbols provided by Math Design.

The GNU General Public License

Version 2, June 1991

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