

# Support for the Plex OpenType fonts

Herbert Voß

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## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
<b>2</b>	<b>The Glyphs</b>	<b>2</b>
2.1	Default Serif style . . . . .	2
2.2	Default Sans style . . . . .	4
2.3	Default Mono style . . . . .	5
<b>3</b>	<b>Features</b>	<b>7</b>
3.1	Alternate styles . . . . .	7
3.1.1	StylisticSet=1: simple lowercase a . . . . .	7
3.1.2	StylisticSet=2: simple lowercase g . . . . .	7
3.1.3	StylisticSet=3: slashed zero . . . . .	7
3.1.4	StylisticSet=4: dotted zero . . . . .	7
3.1.5	StylisticSet=4: special lowercaswe eszett . . . . .	7
3.2	Capital german eszett . . . . .	7
3.3	Vertical position . . . . .	8
3.4	Fractions . . . . .	8
<b>4</b>	<b>Font macros</b>	<b>8</b>
<b>5</b>	<b>Special symbols</b>	<b>9</b>
<b>6</b>	<b>Examples without special Settings</b>	<b>9</b>
6.1	The default . . . . .	9
6.2	Semibold . . . . .	10
6.3	Thin . . . . .	10
6.4	Extra Light . . . . .	11
6.5	Light . . . . .	11
6.6	Medium . . . . .	12
6.7	Text . . . . .	13
<b>7</b>	<b>Examples with using Small Caps fonts</b>	<b>13</b>
<b>8</b>	<b>Closing</b>	<b>14</b>

## 2 The Glyphs

With our new corporate typeface, IBM Plex, comes a new set of guidance and best practices. IBM typography is international and modern to reflect our brand and our design principles. [2]

## 1 Introduction

The package `plex-otf` supports all families with specific optional arguments:

<i>name</i>	<i>value</i>	<i>meaning</i>
<code>mono</code>	<code>true/false</code>	use only the IBM Plex Mono
<code>serif</code>	<code>true/false</code>	use only the IBM Plex Serif
<code>sans</code>	<code>true/false</code>	use only the IBM Plex Sans
<code>RM</code>	<code>code</code>	options for IBM Plex Serif
<code>SS</code>	<code>code</code>	options for IBM Plex Sans
<code>TT</code>	<code>code</code>	options for IBM Plex Mono
<code>RMSCfont</code>	<code>font</code>	font name for small caps
<code>SSSCfont</code>	<code>font</code>	font name for small caps
<code>DefaultFeatures</code>	<code>code</code>	for all font styles

For this documentation we use instead:

```
\usepackage[usefilenames,% Important for xelatex
  RM={Scale=0.94},
  SS={Scale=0.94},
  TT={Scale=MatchLowercase,FakeStretch=0.9},
  DefaultFeatures={Ligatures=Common}]{plex-otf}
```

## 2 The Glyphs

### 2.1 Default Serif style

U+0020		!	”	#	\$	%	&	'	(	)
U+002a	*	+	,	-	.	/	0	1	2	3
U+0034	4	5	6	7	8	9	:	;	<	=
U+003e	>	?	@	A	B	C	D	E	F	G
U+0048	H	I	J	K	L	M	N	O	P	Q
U+0052	R	S	T	U	V	W	X	Y	Z	[
U+005c	\	]	^	_	'	a	b	c	d	e
U+0066	f	g	h	i	j	k	l	m	n	o
U+0070	p	q	r	s	t	u	v	w	x	y
U+007a	z	{		}	~		i	¢	£	¥
U+00a6	¦	§	¨	©	ª	«	¬	-	®	-
U+00b0	°	±	²	³	´	µ	¶	·	¸	¹
U+00ba	º	»	¼	½	¾	¿	À	Á	Â	Ã
U+00c4	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í
U+00ce	Î	Ï	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×

U+00d8	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß	à	á
U+00e2	â	ã	ä	å	æ	ç	è	é	ê	ë
U+00ec	ì	í	î	ï	ð	ñ	ò	ó	ô	õ
U+00f6	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ
U+0100	Ā	ā	Ă	ă	Ą	ą	Ć	ć	Ĉ	ĉ
U+010a	Č	č	Ď	ď	Đ	đ	Ě	ě	Ĝ	ĝ
U+0114	Ĥ	ĥ	Ħ	ħ	İ	ı	Í	í	Ĳ	ı
U+011e	Ĵ	ĵ	Ķ	ķ	κ	κ	Ĺ	ĺ	Ł	ł
U+0132	Ľ	ľ	Ł	ł	Ł	ł	Ń	ń	Ņ	ņ
U+0146	ŋ	Ň	ň	’n	Ŋ	ŋ	Ō	ō	Ŏ	ö
U+0150	Œ	œ	Œ	œ	Ŕ	ŕ	Ŗ	ŗ	Ř	ř
U+015a	Ś	ś	Ŝ	ŝ	Ş	ş	Š	š	Ţ	ţ
U+0164	Ť	ť	Ŧ	ŧ	Ũ	ũ	Ū	ū	Ŭ	ŭ
U+016e	Ų	ų	Ų	ų	Ų	ų	Ŵ	ŵ	Ŷ	ŷ
U+0178	Ÿ	Ž	ž	Ž	ž	Ž	ž	Ɖ	ƒ	Ɔ
U+01a1	σ	U	υ	Ά	ά	Æ	æ	Ø	ø	Ş
U+0219	ş	Ţ	ţ	Ј	ј	‘	’	^	˘	˙
U+02d9	˙	˚	˛	˜	˝	˝	˝	ˆ	˜	˘
U+0306	˘	˙	˚	˛	˝	˝	˝	ˆ	˜	˘
U+0323	˙	˚	˛	˜	˝	˝	˝	ˆ	˜	˘
U+1e84	Ẁ	ẁ	Ẃ	ẃ	Ẅ	ẅ	Ẇ	ẇ	Ẉ	ẉ
U+1ea7	à	Ả	ả	Ả	ả	Ả	ả	Ả	ả	Ả
U+1eb1	à	Ả	ả	Ả	ả	Ả	ả	Ả	ả	Ả
U+1ebb	è	È	è	È	é	È	è	È	é	È
U+1ec5	ẽ	Ẹ	ẹ	Ỉ	ỉ	Ỉ	ỉ	Ọ	ọ	Ỗ
U+1ecf	ỏ	Ổ	ổ	Ỗ	ỗ	Ổ	ổ	Ỗ	ỗ	Ỗ
U+1ed9	ộ	Ớ	ớ	Ỗ	ờ	Ổ	ở	Ỗ	ỡ	Ỗ
U+1ee3	ợ	Ự	ự	Ự	ự	Ự	ự	Ự	ự	Ự
U+1eed	ử	Ỗ	ử	Ự	ự	Ỗ	ự	Ỗ	ự	Ỗ
U+1ef7	ỷ	Ỗ	ỷ	—	—	‘	’	,	“	”
U+201e	„	†	‡	•	...	% <sub>00</sub>	<	>	/	°
U+2074	<sup>4</sup>	<sup>5</sup>	<sup>6</sup>	<sup>7</sup>	<sup>8</sup>	<sup>9</sup>	<sup>0</sup>	<sup>1</sup>	<sup>2</sup>	<sup>3</sup>
U+2084	<sup>4</sup>	<sup>5</sup>	<sup>6</sup>	<sup>7</sup>	<sup>8</sup>	<sup>9</sup>	¢	£	₤	₹
U+20a9	₩	₪	₧	€	₰	₱	₲	₳	₴	₵
U+20b8	₶	₷	₸	₹	₺	₻	₼	₽	₾	₿
U+2150	½	⅓	⅔	¼	⅕	⅖	⅗	⅘	⅙	⅚
U+215b	⅛	⅜	⅝	⅞	←	↑	→	↓	↖	↗
U+2198	↘	↙	↖	↗	↘	↙	↖	↗	↘	↙
U+2202	∂	Δ	∏	Σ	—	√	∞	∫	≈	≠
U+2264	≤	≥	◊	↗	↘	↙	↖	IBM	IBM	IBM
U+ece0	€	€	“	”	fi	fl		a	g	g
U+0f0004	ø	ø	á	ă	â	ä	ą	à	à	ā
U+0f000e	q	ă	ă	ă	ă	ă	ă	ă	ă	ă
U+0f0018	â	ă	ă	ă	ă	ă	ă	ă	ă	ă

## 2 The Glyphs

U+0f0022	Œ	Í	Ĵ	˜	ó	ú	û	ü	ÿ	ÿ
U+0f002c	˜	˜	˜	˜	˜	˜	˜	˜	˜	˜
U+0f0036	˜	˜	˜	˜	˜	˜	˜	˜	˜	˜
U+0f0040	˜	˜	˜	˜	˜	˜	˜	˜	˜	˜
U+0f004a	˜	˜	˜	IBM	IBM					

### 2.2 Default Sans style

U+0020		!	"	#	\$	%	&	'	(	)
U+002a	*	+	,	-	.	/	0	1	2	3
U+0034	4	5	6	7	8	9	:	;	<	=
U+003e	>	?	@	A	B	C	D	E	F	G
U+0048	H	I	J	K	L	M	N	O	P	Q
U+0052	R	S	T	U	V	W	X	Y	Z	[
U+005c	\	]	^	_	`	a	b	c	d	e
U+0066	f	g	h	i	j	k	l	m	n	o
U+0070	p	q	r	s	t	u	v	w	x	y
U+007a	z	{		}	~		i	¢	£	¥
U+00a6	¡	§	¨	©	ª	«	¬	-	®	-
U+00b0	°	±	²	³	´	µ	¶	·	¸	¹
U+00ba	º	»	¼	½	¾	¿	À	Á	Â	Ã
U+00c4	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í
U+00ce	Î	Ï	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×
U+00d8	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß	à	á
U+00e2	â	ã	ä	å	æ	ç	è	é	ê	ë
U+00ec	ì	í	î	ï	ð	ñ	ò	ó	ô	õ
U+00f6	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ
U+0100	Ā	ā	Ă	ă	Ą	ą	Ć	ć	Ĉ	ĉ
U+010a	Č	č	Č	č	Ď	ď	Đ	đ	Ě	ě
U+0114	Ě	ě	Ě	ě	Ě	ě	Ě	ě	Ĝ	ĝ
U+011e	Ğ	ğ	Ğ	ğ	Ğ	ğ	Ĥ	ĥ	Ħ	ħ
U+0128	Ī	ī	Ī	ī	Ī	ī	Į	į	İ	ı
U+0132	Ĵ	ĵ	Ĵ	ĵ	Ķ	ķ	κ	Ĺ	ĺ	Ł
U+013c	ł	Ł	ł	Ł	ł	Ł	ł	Ń	ń	Ń
U+0146	ŋ	Ň	ň	’n	Ň	ň	Ō	ō	Ŏ	ö
U+0150	Ŏ	ő	Œ	œ	Ř	ř	Ŕ	ŕ	Ř	ř
U+015a	Ś	ś	Ŝ	ŝ	Ş	ş	Š	š	Ţ	ţ
U+0164	Ť	ť	Ŧ	ŧ	Ũ	ũ	Ū	ū	Ů	ů
U+016e	Ű	ű	Ű	ű	Ű	ű	Ŵ	ŵ	Ŷ	ŷ
U+0178	Ÿ	Ž	ž	Ž	ž	Ž	ž	Θ	ƒ	Ɔ
U+01a1	đ	Ů	ư	Ả	ả	Æ	æ	Ø	ø	Ş
U+0219	ş	Ţ	ţ	Ј	ѐ	’	’	ˆ	˜	˘
U+02d9	˙	˚	˛	˜	˝	˘	˙	˚	˛	˜
U+0306	˘	˙	˚	˛	˝	˘	˙	˚	˛	˜
U+0323	˙	˚	˛	˜	π	ϕ	Ẁ	ẁ	Ẃ	ẃ
U+1e84	Ẅ	ẅ	Ẇ	ẇ	Ẉ	ẉ	Ẑ	ẑ	Ẓ	ẓ

U+1ea7	à	Ả	ả	Ã	ã	Â	â	Ă	ă	À
U+1eb1	ă	Ă	ả	Ã	ã	Ă	ă	Ẹ	ẹ	Ẻ
U+1ebb	è	Ẽ	è	Ẻ	ế	Ề	ề	Ễ	ễ	Ễ
U+1ec5	ẽ	Ẽ	ệ	Ỉ	ỉ	Ị	ị	Ọ	ọ	Ỗ
U+1ecf	ỏ	Ỗ	ố	Ồ	ồ	Ỗ	ổ	Ỗ	ỗ	Ộ
U+1ed9	ộ	Ớ	ớ	Ờ	ờ	Ỗ	ở	Ỗ	ỡ	Ợ
U+1ee3	ợ	Ự	ự	Ủ	ủ	Ứ	ứ	Ừ	ừ	Ủ
U+1eed	ử	Ỡ	ỡ	Ự	ự	Ỡ	ở	Ỡ	ỗ	Ỡ
U+1ef7	ỷ	Ỡ	ỡ	—	—	‘	’	,	“	”
U+201e	„	†	‡	•	...	‰	<	>	/	°
U+2074	4	5	6	7	8	9	0	1	2	3
U+2084	4	5	6	7	8	9	¢	£	¥	Rs
U+20a9	₩	₩	₩	€	₩	₩	₩	₩	₩	₩
U+20b8	₹	₹	₹	₹	₹	₹	₹	₹	₹	₹
U+2150	½	½	½	½	½	½	½	½	½	½
U+215b	½	¾	¾	¾	←	↑	→	↓	↔	↕
U+2196	↖	↗	↘	↙	↞	↠	↡	↢	↣	↤
U+21b6	↥	↦	↧	↨	↩	↪	↫	↬	↭	↮
U+2212	−	√	∞	∫	≈	≠	≤	≥	◇	√
U+274c	×	↗	↘	↙	↞	IBM	IBM	IBM	IBM	IBM
U+ece0	€	€	€	€	fi	fl		a	g	g
U+0f0004	0	0	á	ă	â	ä	ç	à	á	â
U+0f000e	q	â	ă	ă	ă	ă	ă	ă	ă	ă
U+0f0018	â	ă	ă	ă	ă	ă	ă	ă	ă	ă
U+0f0022	ă	ă	ă	ă	ă	ă	ă	ă	ă	ă
U+0f002c	ă	ă	ă	ă	ă	ă	ă	ă	ă	ă
U+0f0036	ă	ă	ă	ă	ă	ă	ă	ă	ă	ă
U+0f0040	ă	ă	ă	ă	ă	ă	ă	ă	ă	ă
U+0f004a	ă	ă	ă	ă	ă	ă	ă	ă	ă	ă

## 2.3 Default Mono style

U+0020		!	"	#	\$	%	&	'	(	)
U+002a	*	+	,	-	.	/	0	1	2	3
U+0034	4	5	6	7	8	9	:	;	<	=
U+003e	>	?	@	A	B	C	D	E	F	G
U+0048	H	I	J	K	L	M	N	O	P	Q
U+0052	R	S	T	U	V	W	X	Y	Z	[
U+005c	\	]	^	_	'	a	b	c	d	e
U+0066	f	g	h	i	j	k	l	m	n	o
U+0070	p	q	r	s	t	u	v	w	x	y
U+007a	z	{		}	~		i	¢	£	¥
U+00a6	¡	§	¨	©	ª	«	¬	-	®	-
U+00b0	°	±	²	³	´	µ	¶	·	¸	¹
U+00ba	º	»	¼	½	¾	¿	À	Á	Â	Ã
U+00c4	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í

## 2 The Glyphs

U+00ce	Î	İ	Đ	Ñ	Ò	Ó	Ô	Õ	Ö	×
U+00d8	Ø	Ù	Ú	Û	Ü	Ý	Þ	Ë	à	á
U+00e2	â	ã	ä	å	æ	ç	è	é	ê	ë
U+00ec	ì	í	î	ï	ð	ñ	ò	ó	ô	õ
U+00f6	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ
U+0100	Ā	ā	Ă	ă	Ą	ą	Ć	ć	Ĉ	ĉ
U+010a	Č	č	Č	č	Ď	ď	Đ	đ	Ē	ē
U+0114	Ě	ě	Ě	ě	Ě	ě	Ě	ě	Ĝ	ĝ
U+011e	Ğ	ğ	Ğ	ğ	Ğ	ğ	Ĥ	ĥ	Ħ	ħ
U+0128	Ī	ī	Ī	ī	Ī	ī	Į	į	İ	ı
U+0132	Ј	ј	Ј	ј	Қ	қ	κ	Ќ	ќ	Љ
U+013c	Ћ	ћ	Ћ	ћ	Ћ	ћ	Ћ	ћ	Њ	њ
U+0146	ŋ	Ň	ň	ŋ	Ň	ň	Ō	ō	Ŏ	ő
U+0150	Œ	œ	Œ	œ	Ŕ	ŗ	Ŗ	ŗ	Ř	ř
U+015a	Ś	ś	Ŝ	ŝ	Ş	ş	Š	š	Ţ	ţ
U+0164	Ť	ť	Ť	ť	Ů	ů	Ű	ű	Ũ	ũ
U+016e	Ų	ų	Ų	ų	Ų	ų	Ŵ	ŵ	Ŷ	ŷ
U+0178	Ÿ	Ž	ž	Ž	ž	Ž	ž	ə	ƒ	Ɔ
U+01a1	ơ	ư	ư	Ả	ả	Ế	ê	Ớ	ớ	Ỡ
U+0219	ş	Ţ	ţ	Ј	ə	‘	’	^	˘	˙
U+02d9	·	°	˘	˙	˚	˛	˜	˜	˜	˜
U+0306	˘	˙	˚	˛	˜	˜	˜	˜	˜	˜
U+0323	˙	˚	˛	˜	˜	˜	˜	˜	˜	˜
U+1e84	Ẁ	ẁ	Ẃ	ẃ	Ẅ	ẅ	Ẇ	ẇ	Ẉ	ẉ
U+1ea7	Ẑ	ẑ	Ẓ	ẓ	Ẕ	ẕ	ẖ	ẗ	ẘ	ẙ
U+1eb1	Ẓ	ẓ	Ẕ	ẕ	ẖ	ẗ	ẘ	ẙ	ẚ	ẛ
U+1ebb	ẜ	ẝ	ẞ	ẟ	Ạ	ạ	Ả	ả	Ấ	ấ
U+1ec5	Ầ	ầ	Ẩ	ẩ	Ẫ	ẫ	Ậ	ậ	Ắ	ắ
U+1ecf	Ẳ	ẳ	Ẵ	ẵ	Ặ	ặ	Ẹ	ẹ	Ẻ	ẻ
U+1ed9	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ
U+1ee3	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ
U+1eed	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ
U+1ef7	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ
U+201e	„	†	‡	•	…	‰	‹	›	/	°
U+2074	₪	₹	₺	₴	₵	₶	₷	₸	₹	₺
U+2084	₴	₵	₶	₷	₸	₹	₺	₻	₼	₽
U+20a9	₹	₺	₴	₵	₶	₷	₸	₹	₺	₻
U+20b8	₴	₵	₶	₷	₸	₹	₺	₻	₼	₽
U+2150	½	¼	⅓	⅔	⅕	⅙	⅚	⅛	⅜	⅝
U+215b	⅞	⅝	⅞	⅞	↵	↑	→	↓	↔	↕
U+2196	↖	↗	↘	↙	↺	↻	↷	↸	↹	↻
U+21b6	↻	↻	↻	↻	↻	↻	↻	↻	↻	↻
U+2212	−	√	∞	∫	≈	≠	≤	≥	◇	√
U+274c	X	↵	↗	↙	↻	↻	↻	↻	fi	fl
U+0f0000	■	a	g	g	0	0	á	ă	â	ä
U+0f000a	q	à	ă	ā	q	ă	ă	ă	ă	ă

U+0f0014	ǎ	ǎ	ǎ	ǎ	â	à	ã	ã	ğ	ğ
U+0f001e	ǎ	ǎ	ǎ	ǎ	â	à	ã	ã	ğ	ğ
U+0f0028	3	4	5	6	7	8	9	0	1	2
U+0f0032	3	4	5	6	7	8	9	~	ó	ó
U+0f003c	3	4	5	6	7	8	9	~	ó	ó
U+0f0046	3	4	5	6	7	8	9	~	ó	ó
U+0f0050	3	4	5	6	7	8	9	~	ó	ó
U+0f005a	3	4	5	6	7	8	9	~	ó	ó

## 3 Features

### 3.1 Alternate styles

The stylistic sets are available for example by

```
\usepackage[... ,
    RM={StylisticSet=1},
    ...]{plex-otf}
```

#### 3.1.1 StylisticSet=1: simple lowercase a

(Default aàáâãäåãäå) and aàáâãäåãäåq

#### 3.1.2 StylisticSet=2: simple lowercase g

(Default g) and g

#### 3.1.3 StylisticSet=3: slashed zero

(Default 0) and 0

#### 3.1.4 StylisticSet=4: dotted zero

(Default 0) and 0

#### 3.1.5 StylisticSet=4: special lowercaswe eszett

(Default ß) and ß

### 3.2 Capital german eszett

It is available with \SS→ß

3.3 Vertical position

plex-otf-1

```
\usepackage[DefaultFeatures={Scale=0.94}]{plex-otf}

{\addfontfeature{VerticalPosition=Superior}
Superior: 1234567890\par}
{\addfontfeatures{VerticalPosition=Numerator}
Numerator: 1234567890\par}
{\addfontfeatures{VerticalPosition=Denominator}
Denominator: 1234567890\par}
\addfontfeatures{VerticalPosition=ScientificInferior}
Scientific Inferior: 1234567890
```

Superior: 1234567890  
Numerator: 1234567890  
Denominator: 1234567890  
Scientific Inferior: 1234567890

3.4 Fractions

plex-otf-2

```
\usepackage[DefaultFeatures={Scale=0.94}]{plex-otf}

1/3 2/3 1/5 2/5 \ldots \par
\addfontfeatures{Fractions=On}
1/3 2/3 1/5 2/5 3/5 4/5 1/6 5/6 1/7 1/9 1/8 3/8 5/8 7/8\par
123456/3215731
```

1/3 2/3 1/5 2/5 ...  
1/3 2/3 1/5 2/5 3/5 4/5 1/6 5/6 1/7 1/9 1/8 3/8 5/8 7/8  
123456/3215731

4 Font macros

The package defines the following macros which sets only the regular and italic font or the bold and bold italic font.

Serif:	Sans Serif:	Mono:
<code>\PlexExtraLightRM</code>	<code>\PlexExtraLightSS</code>	<code>\PlexExtraLightTT</code>
<code>\PlexLightRM</code>	<code>\PlexLightSS</code>	<code>\PlexLightTT</code>
<code>\PlexThinRM</code>	<code>\PlexThinSS</code>	<code>\PlexThinTT</code>
<code>\PlexMediumRM</code>	<code>\PlexMediumSS</code>	<code>\PlexMediumTT</code>
<code>\PlexTextRM</code>	<code>\PlexTextSS</code>	<code>\PlexTextTT</code>
<code>\PlexSemiBoldRM</code>	<code>\PlexSemiBoldSS</code>	<code>\PlexSemiBoldTT</code>

These macros refer to the following styles:

ExtraLight	Upright, Italic
Light	Upright, Italic
Thin	Upright, Italic
Medium	Upright, Italic
Text	Upright, Italic
SemiBold	Bold, BoldItalic

plex-otf-3

```
\usepackage[DefaultFeatures={Scale=0.94}]{plex-otf}

\demo\ Regular\par {\PlexTextRM\demo\ Text\par} {\PlexLightRM\demo\ Light\par}
{\PlexExtraLightRM\demo\ ExtraLight\par} {\PlexThinRM\demo\ Thin}
```



Some text in the default font style IBM Plex Serif Regular  
 Some text in the default font style IBM Plex Serif Text  
 Some text in the default font style IBM Plex Serif Light  
 Some text in the default font style IBM Plex Serif ExtraLight  
 Some text in the default font style IBM Plex Serif Thin

## 5 Special symbols

<code>\IBM</code>	→ <b>IBM</b>	<code>\upleftarrow</code>	→ ↖
<code>\IBM[1]</code>	→ <b>IBM</b>	<code>\uprightarrow</code>	→ ↗
<code>\IBM[2]</code>	→ <b>IBM</b>	<code>\downleftarrow</code>	→ ↙
<code>\IBM[3]</code>	→ <b>IBM</b>	<code>\downrightarrow</code>	→ ↘
<code>\IBM[4]</code>	→ <b>IBM</b>	<code>\leftturn</code>	→ ↶
<code>\CE</code>	→ €	<code>\rightturn</code>	→ ↷
<code>\FCC</code>	→ €	<code>\fullleftturn</code>	→ ↶
		<code>\fullrightturn</code>	→ ↷

## 6 Examples without special Settings

### 6.1 The default

By default the Plex font family has no small caps and no special slanted version.

```
\usepackage[DefaultFeatures={Scale=0.94}]{plex-otf}
```

```
\blindtext
```

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!

\sffamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!

\ttfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!
```

plex-otf-4

## 6.2 Semibold

```
\usepackage[DefaultFeatures={Scale=0.94},
  RMstyle=Semibold,
  SSstyle=Semibold,
  TTstyle=Semibold]{plex-otf}
```

```
\blindtext
```

plex-otf-5

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!

\sffamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!

\ttfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!
```

## 6.3 Thin

This makes only sense with the the Semibold feature or not using bold characters.

```
\usepackage[DefaultFeatures={Scale=0.94},
  RMstyle=Thin,
  SSstyle=Thin,
  TTstyle=Thin]{plex-otf}
```

```
\blindtext
```

plex-otf-6

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

\sffamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

\ttfamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
```

## 6.4 Extra Light

This makes only sense with the the Semibold feature or not using bold characters.

```
\usepackage[DefaultFeatures={Scale=0.94},
  RMstyle=ExtraLight,
  SSstyle=ExtraLight,
  TTstyle=ExtraLight]{plex-otf}
```

```
\blindtext
```

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

\sffamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

\ttfamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
```

plex-otf-7

## 6.5 Light

This makes only sense with the the Semibold feature or not using bold characters.

```
\usepackage[DefaultFeatures={Scale=0.94},
  RMstyle=Light,
  SSstyle=Light,
  TTstyle=Light]{plex-otf}
```

```
\blindtext
```

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

\sffamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

\ttfamily \normalfont: Sphinx of black quartz judge my vow.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
```

plex-otf-8

## 6.6 Medium

This makes sense with the the Semibold feature.

```
\usepackage[DefaultFeatures={Scale=0.94},
  RMstyle={Medium,Semibold},
  SSstyle={Medium,Semibold},
  TTstyle={Medium,Semibold}]{plex-otf}
```

```
\blindtext
```

plex-otf-9

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flaszy!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flaszy!

\sffamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flaszy!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flaszy!

\ttfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flaszy!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flaszy!
```

## 6.7 Text

This makes sense with the the Semibold feature.

```
\usepackage[DefaultFeatures={Scale=0.94},
  RMstyle={Text,Semibold},
  SSstyle={Text,Semibold},
  TTstyle={Text,Semibold}]{plex-otf}
```

```
\blindtext
```

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!

\sffamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!

\ttfamily \normalfont: Sphinx of black quartz judge my vow.
  \bfseries: Voyez le brick géant que j'examine près du wharf.
  \itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \slshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
  \bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
  \bfseries\slshape: Pójdźże, kiń tę chmurność w głąb flasz!
```

plex-otf-10

## 7 Examples with using Small Caps fonts

As already mentioned, the Plex font family has no small caps. If you need one then you can define another font for the small caps. If the font has to structure like the T<sub>E</sub>X Gyre fonts:

```
texgyreheros-regular.otf
texgyreheros-bold.otf
texgyreheros-italic.otf
texgyreheros-bolditalic.otf
```

then you have to define all combinations yourself

```
\usepackage[SS={ SmallCapsFont = texgyreheros-regular,
  SmallCapsFeatures = {Letters=SmallCaps,Scale=MatchUppercase},
  BoldFeatures = { SmallCapsFont=texgyreheros-bold},
  ItalicFeatures = { SmallCapsFont=texgyreheros-italic},
  BoldItalicFeatures= { SmallCapsFont=texgyreheros-bolditalic}}]{plex-otf}
```

```
\usepackage[DefaultFeatures={Scale=0.94},
  RMSCfont=texgyretermes,
  SSSCfont=texgyreheros]{plex-otf}
```

```
\blindtext
```

```
\rmfamily \normalfont: Sphinx of black quartz judge my vow. SPHINX OF BLACK QUARTZ JUDGE MY VOW.
\bfseries: Voyez le brick géant que j'examine près du wharf. VOYEZ LE BRICK GÉANT QUE J'EXAMINE PRÈS DU WHARF.
\itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln. VOM ÖDIPUSKOM- PLEX MASSLOS GEQUÄLT, ÜBT WILFRIED ZYKLISCHES JODELN.
Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
\bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz! PÓJDŹŻE, KIŃ TĘ CHMURNOŚĆ W GŁĄB FLASZY!
Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
\sffamily \normalfont: Sphinx of black quartz judge my vow. SPHINX OF BLACK QUARTZ JUDGE MY VOW.
\bfseries: Voyez le brick géant que j'examine près du wharf. VOYEZ LE BRICK GÉANT QUE J'EXAMINE PRÈS DU WHARF.
\itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln. VOM ÖDIPUSKOM- PLEX MASSLOS GEQUÄLT, ÜBT WILFRIED ZYKLISCHES JODELN.
Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
\bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz! PÓJDŹŻE, KIŃ TĘ CHMURNOŚĆ W GŁĄB FLASZY!
Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
\ttfamily \normalfont: Sphinx of black quartz judge my vow.
\bfseries: Voyez le brick géant que j'examine près du wharf.
\itshape: Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
\bfseries\itshape: Pójdźże, kiń tę chmurność w głąb flasz!
Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
```

## 8 Closing

The font list of this documentation is:

```
CMSY10 Type 1 Builtin
IBMPlexMono CID Type 0C
IBMPlexMono-Bold CID Type 0C
IBMPlexMono-BoldItalic CID Type 0C
IBMPlexMono-ExtraLight CID Type 0C
IBMPlexMono-ExtraLightItalic CID Type 0C
IBMPlexMono-Italic CID Type 0C
IBMPlexMono-Light CID Type 0C
IBMPlexMono-LightItalic CID Type 0C
IBMPlexMono-Medium CID Type 0C
IBMPlexMono-MediumItalic CID Type 0C
IBMPlexMono-SemiBold CID Type 0C
IBMPlexMono-SemiBoldItalic CID Type 0C
IBMPlexMono-Text CID Type 0C
```

```

IBMPlexMono-TextItalic  CID Type 0C
IBMPlexMono-Thin        CID Type 0C
IBMPlexMono-ThinItalic  CID Type 0C
IBMPlexSans              CID Type 0C
IBMPlexSans-Bold        CID Type 0C
IBMPlexSans-BoldItalic  CID Type 0C
IBMPlexSans-ExtraLight  CID Type 0C
IBMPlexSans-ExtraLightItalic  CID Type 0C
IBMPlexSans-Italic      CID Type 0C
IBMPlexSans-Light       CID Type 0C
IBMPlexSans-LightItalic CID Type 0C
IBMPlexSans-Medium      CID Type 0C
IBMPlexSans-MediumItalic  CID Type 0C
IBMPlexSans-SemiBold    CID Type 0C
IBMPlexSans-SemiBoldItalic  CID Type 0C
IBMPlexSans-Text        CID Type 0C
IBMPlexSans-TextItalic  CID Type 0C
IBMPlexSans-Thin        CID Type 0C
IBMPlexSans-ThinItalic  CID Type 0C
IBMPlexSerif            CID Type 0C
IBMPlexSerif-Bold       CID Type 0C
IBMPlexSerif-BoldItalic CID Type 0C
IBMPlexSerif-ExtraLight CID Type 0C
IBMPlexSerif-ExtraLightItalicPS CID Type 0C
IBMPlexSerif-Italic     CID Type 0C
IBMPlexSerif-Light      CID Type 0C
IBMPlexSerif-LightItalic  CID Type 0C
IBMPlexSerif-Medium     CID Type 0C
IBMPlexSerif-MediumItalic  CID Type 0C
IBMPlexSerif-SemiBoldItalic  CID Type 0C
IBMPlexSerif-SemiBoldPS  CID Type 0C
IBMPlexSerif-Text       CID Type 0C
IBMPlexSerif-TextItalic CID Type 0C
IBMPlexSerif-Thin       CID Type 0C
IBMPlexSerif-ThinItalic CID Type 0C
LinLibertine0           CID Type 0C
TeXGyreHeros-Bold       CID Type 0C
TeXGyreHeros-BoldItalic CID Type 0C
TeXGyreHeros-Italic     CID Type 0C
TeXGyreHeros-Regular    CID Type 0C
TeXGyreTermes-Bold      CID Type 0C
TeXGyreTermes-BoldItalic  CID Type 0C
TeXGyreTermes-Italic    CID Type 0C
TeXGyreTermes-Regular   CID Type 0C

```

## References

- [1] freedesktop.org. *Fontconfig. A library for configuring and customizing font access*. June 15, 2016. URL: <https://www.freedesktop.org/wiki/Software/fontconfig/> (visited on 03/18/2017).
- [2] James Y Rahhut. *The package of IBM's new typeface, IBM Plex, and accompanying typography code*. Nov. 1, 2017. URL: <https://ibm.github.io/type> (visited on 11/13/2017).

## REFERENCES

- [3] WIKIPEDIA. *List of typographic features*. Feb. 21, 2017. URL: [https://en.wikipedia.org/wiki/List\\_of\\_typographic\\_features](https://en.wikipedia.org/wiki/List_of_typographic_features) (visited on 03/24/2017).