

User Guide for Greek GGT-Fonts

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by Graham G Thomason

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Sample text: Matthew 5:30, which contains all letters of the Greek alphabet. All at 12 point.

GGTEphesian	καὶ εἰ ἡ δεξιὰ σου χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σου καὶ μὴ ὅλον τὸ σῶμά σου βληθῆ εἰς γέενναν.
GGTGalatian	καὶ εἰ ἡ δεξιὰ σου χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σου καὶ μὴ ὅλον τὸ σῶμά σου βληθῆ εἰς γέενναν.
GGTPhilippian	καὶ εἰ ἡ δεξιὰ σου χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σου καὶ μὴ ὅλον τὸ σῶμά σου βληθῆ εἰς γέενναν.
GGTColossian	καὶ εἰ ἡ δεξιὰ σου χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σου καὶ μὴ ὅλον τὸ σῶμά σου βληθῆ εἰς γέενναν.
GGTSinaiticus	καὶ εἰ ἡ δεξιὰ σοῦ χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σοῦ καὶ μὴ ὅλον τὸ σῶμά σοῦ βληθῆ εἰς γέενναν.
GGTP75	καὶ εἰ ἡ δεξιὰ σοῦ χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σοῦ καὶ μὴ ὅλον τὸ σῶμά σοῦ βληθῆ εἰς γέενναν.
GGTEvst150	καὶ εἰ ἡ δεξιὰ σοῦ χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σοῦ καὶ μὴ ὅλον τὸ σῶμά σοῦ βληθῆ εἰς γέενναν.
GGTDublinensis	καὶ εἰ ἡ δεξιὰ σοῦ χεὶρ σκανδαλίζει σε, ἔκκοπον αὐτὴν καὶ βάλε ἀπὸ σοῦ· συμφέρει γάρ σοι ἵνα ἀπόληται ἐν τῶν μελῶν σοῦ καὶ μὴ ὅλον τὸ σῶμά σοῦ βληθῆ εἰς γέενναν.

About these fonts

- These fonts (named with prefix GGT-) are provided *as is*, subject to some restrictions, and with no warranty or liability.
- The fonts map character codes in the range 32-255 into letters and nonspacing diacritics. This is the old way of doing things, not the Unicode way.
- The zero-space accenting technique works well with Word, and pdf from Word, and with Firefox and Chrome, but not with earlier versions of Internet Explorer.
- See the user manuals (below, in pdf) for sample texts rendered and more information.
- The GgtAmos2 and GgtHosea2 fonts have vowels but not cantillation signs, which allows the letters themselves to be larger in the same vertical space, as less height is used.
- The GGTSinaiticusNac and P75Nac fonts have zero space characters where the -Acc equivalents have accents and other diacritics, so diacritics can be removed and restored simply by a font change. For other fonts, the diacritics must be removed by editing the textual document. Obviously, the Masoretic symbols are incongruous when used with some of the fonts, but their availability does no harm.
- Download the fonts by clicking and selecting *save* (not *open*, which just displays some characters in the font) and copying to your Fonts directory. On some browsers you need to right click and save the target.

Conditions of use for ...

GGTEphesian GGTGalatian GGTColossian GGTPhilippian GGTSinaiticusAcc
GGTSinaiticusNac GGTEvst150 GGTDublinensis

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This document uses the GGTEphesian.ttf font, available from www.FarAboveAll.com

Conditions of use for ...

GGTP75Acc GGTP75Nac

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This document uses the GGTSinaiticusAcc.ttf font, available from www.FarAboveAll.com

More about these fonts

The fonts all have the same basic coding convention, so texts can be switched between fonts at will. This applies to the standard letters and diacritics, but not digamma qoppa, sampi, and other symbols, which may be a font-specific character, such as a digraph.

The fonts use <, >, and & for Greek coding, which are HTML sensitive, ***so care should be taken***. However, alternatives for these characters are provided: codes 0206, 0207, 0208 respectively.

The fonts specialise in heaped-up diacritics, e.g: ḗ ḡ ḥ ḣ ḥ ḥ ḥ.

GGTEphesian

GGTEphesian is a vertical cursive handwritten-style Greek font with high readability under low resolution, since it uses little calligraphic pen width variation. It was drawn by Graham G Thomason. It specialises in heaped-up diacritics, e.g: ḗ ḡ ḥ ḣ ḥ ḥ ḥ or alternatively, with lowered ι and υ, ḥ ḥ ḥ ḥ. The font even supports ḗ ḡ. It enables Θ̄C to be written. It also contains Roman numerals (albeit in high order codes), thus facilitating verse numbering.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεζηθικλμνξοπρστυφχψω ς

GGTGalatian

GGTGalatian is a much bolder version of GGTEphesian. It should have exactly the same spacing as GGTEphesian. A bold version is needed because the bold setting in a word processor only makes GGTEphesian significantly bolder up to about font size 9 or 10pt.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεζηθικλμνξοπρστυφχψω ς

GGTPhilippian

A modern printed cursive font. GGTPhilippian is mainly based on samples of Greek letters in the following (19th century, uncopyrighted) books by E.W.Bullinger: *Number in Scripture*, p.49; *Figures of Speech Used in the Bible*, App VII.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεζηθικλμνξοπρστυφχψω ς

GGTColossian

GGTColossian imitates an early cursive manuscript hand. It was drawn by Graham G Thomason. It does not currently support any digraphs.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεζθικλμνξοπρστυφχψω ς

GGTSinaiticusAcc / GGTSinaiticusNac

The GGTSinaiticus- fonts are based on the lithographs of the Sinaitic (Ⲛ) manuscript as exhibited in Scrivener's Plain Introduction to the Criticism of the New Testament, published in 1894, plates I-2 and IV-11b. The Sinaiticus fonts have v=ⲏ (digraph for HN). The -Nac font expunges accents.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεζηθικλμνξοπρστυφχψω ς

GGTP75Acc / GGTP75Nac

A font based on characters in the P⁷⁵ papyrus manuscript, from the page containing Luke 16:9-21. A scan of this sheet is available at

http://chrles.multiply.com/photos/album/53/Bible_Papyrus_p75#62

A scan of the same page is reproduced on page 9 of *Manuscripts of the Bible* by Bruce M. Metzger. The -Nac font expunges accents.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεζηθικλμνξοπρστυφχψω ς

GGTEvst150

A font based on characters in Evangelistary 150 (now British Library Harley 5598), exhibited in Scrivener's Plain Introduction to the Criticism of the New Testament, published in 1894, plate III. With accents.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ς

GGTDublinensis

A font based on characters in Dublinensis (Codex Z), exhibited in Scrivener's Plain Introduction to the Criticism of the New Testament, published in 1894, plate VII. With accents.

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ς

Letters and symbols: In *Word*, enter direct key or ALT/0nnn as appropriate.

α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	τ	υ	φ	χ	ψ	ω
a	b	g	d	e	z	h	q	i	k	l	m	n	c	o	p	r	s	t	u	f	x	y	w
Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Π	Ρ	Σ	Τ	Υ	Φ	Χ	Ψ	Ω
A	B	G	D	E	Z	H	Q	I	K	L	M	N	C	O	P	R	S	T	U	F	X	Y	W
ς	Ϛ	Ϝ	ϝ	Ϟ	ϟ	Ϡ	ϡ	Ϣ	ϣ	Ϥ	ϥ	Ϧ	ϧ	Ϩ	ϩ	Ϫ	ϫ	Ϭ	ϭ	Ϯ	ϯ	ϰ	ϱ
j	5	0205	V	J	v	0226	0227	0232	0239	0240	0241	0242	0243	0161	0162	0163	0164	0165	0166	0168	0169	0171	0172
/	0	1	2	3	4	5	6	7	8	9	:	[\]	Ⓞ	Ⓟ	Ⓠ	Ⓡ	Ⓢ	Ⓣ	Ⓤ	Ⓥ	Ⓦ
0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0209		0219	0221

Diacritics: enter to the **right** of the letter. There are no compounds with dieresis.

Description	Narr ch	KEY	Wide ch	KEY	Std-alone	KEY
Iota subscript	η		α̣ ω̣	%		
Smooth	ι̇ ε̇ η̇ ο̇ υ̇	0	ᾀ ᾁ ῀ ῁)	ζ̣' A	z 870A
Rough	ι̣ ε̣ η̣ ο̣ υ̣	9	ᾀ̣ ᾁ̣ ῀̣ ῁̣	(ζ̣' E	z 879E
Acute	ί έ η̄ ό ύ	/	ά ώ	& or 0206		
Grave	ì è ñ ò ù	\	ὰ ῶ	_ us		
Circumflex	î ê ñ̂ ô û	=	ᾀ̂ ᾁ̂	~		
Smooth Acute	ί̇ ε̇ η̇ ο̇ υ̇	1	ᾀ̇ ᾁ̇	!		
Smooth Grave	ì̇ ε̇ ñ̇ ò̇ ù̇	2	ᾀ̣̇ ᾁ̣̇	@		
Smooth Circumflex	î̇ ê̇ ñ̇̂ ô̇̂ û̇̂]	ᾀ̇̂ ᾁ̇̂	}		
Rough Acute	ί̣ ε̣ η̣ ο̣ υ̣	3	ᾀ̣̇ ᾁ̣̇	#		
Rough Grave	ị̀ ε̣ ṇ̃ ọ̀ ụ̀	4	ᾀ̣̣̇ ᾁ̣̣̇	\$		
Rough Circumflex	ị̂ ệ ṇ̃̂ ộ̂ ụ̂̂	[ᾀ̣̣̇̂ ᾁ̣̣̇̂	{		
Dieresis	ï ë ñ̈ ö ü	+	ᾀ̈ ᾁ̈	"		
Altern. with 0193/0194	ı ü	0192		"		
Macron	ī ū	< or 0207	ᾀ̄	> or 0208		
Breve	ı̆ ŭ̆	^	ᾀ̆	`		
BreveOnMacron	ī̆ ū̆	0228	ᾀ̆̄	0229		
MacronOnBreve	ī̄ ū̄	0230	ᾀ̄̆	0231		
Grk Sublinear Dot	! α̣	?				
UncialOverline	Ϝ̅	6				

Punctuation and Scansion

<i>punctuation</i>		KEY
Grk Comma	,	,
Grk Raised Dot	·	:
Grk Full Stop	.	. fs
Grk Quest Mark	;	; sc
Grk Dash	-	-
Thousands	,	0170

<i>punctuation</i>		KEY
Non Brk Space		7
Non Brk Dash	-	0220
1/2 width nbrk sp		8
Space		sp
Asterisk	*	*
Grk Elis./Num	δι'	'

<i>scansion</i>		KEY
scansion macron	—	0196
scansion macron	—	0197
scansion micron	˘	0198
scansion micron	˘	0199
macron/micron	˘	0200
macron/microns	˘˘	0201
foot divider		0202
caesura		0203

Explanation of some of the symbols

- Ⲛ Ⲛ Received Text / Textus Receptus
- Ⲅ Egyptian manuscripts
as defined by Hodges and Farstad in *The New Testament According to the Majority Text*.
- Ⲙ Majority text
- Ⲡ Papyrus
- Ⲟ Sinaiticus manuscript
- ⲛ Nonrecessive accent
- Ⲟ Recessive accent
- Ⲙ Contracted form
- Ⲡ Pluperfect (alternative forms)
- Ⲡ Optative (alternative forms)

Examples

διϗλίζοντες / διϗλίζοντες *straining out* [Mt 23:24]

To expunge all diacritics and punctuation

Use a NAC (no accent) font. Use an editor to remove:

- space 7 8 (which are nonbreaking spaces)
- ' (apostrophe, Greek elision)
- ; : , . (perhaps replace . by a space or half space, 8)
- |% iota subscript

Character map of GGTEphesian

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0		ŵ	ÿ	ŵ	ŵ	ŵ	ŵ	'	ŵ	ŵ	*	ë	,	-	.	é
key	sp	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
Hex	\$20	\$21	\$22	\$23	\$24	\$25	\$26	\$27	\$28	\$29	\$2A	\$2B	\$2C	\$2D	\$2E	\$2F
Alt/	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047
1	ŵ	A	B	Ξ	Δ	E	Φ	Γ	H	I	ϕ	K	Λ	M	N	O
key	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Hex	\$40	\$41	\$42	\$43	\$44	\$45	\$46	\$47	\$48	\$49	\$4A	\$4B	\$4C	\$4D	\$4E	\$4F
Alt/	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079
2	ǎ	α	β	ξ	δ	ε	φ	γ	η	ι	ς	κ	λ	μ	ν	ο
key	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
Hex	\$60	\$61	\$62	\$63	\$64	\$65	\$66	\$67	\$68	\$69	\$6A	\$6B	\$6C	\$6D	\$6E	\$6F
Alt/	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	0111
3		€	←	↔	€	€	€	€	€	‰	Š	€	€	€	Ž	€
key	€	•	,	f	„	...	†	‡	^	‰	š	<	€	•	ž	•
latin1	20AC	undef	201A	0192	201E	2026	2020	2021	02C6	2030	0160	2039	0152	undef	017D	undef
Hex	\$80	\$81	\$82	\$83	\$84	\$85	\$86	\$87	\$88	\$89	\$8A	\$8B	\$8C	\$8D	\$8E	\$8F
Alt/	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143
4	nbrk	Ń	←	→	©	Ń	®	A7	()	,	■	•	-	®	/
key	nbrk	i	¢	£	¤	¥	¦	§	¨	©	ª	«	¬	-	®	-
latin1	00A0	00A1	00A2	00A3	00A4	00A5	00A6	00A7	00A8	00A9	00AA	00AB	00AC	00AD	00AE	00AF
Hex	\$A0	\$A1	\$A2	\$A3	\$A4	\$A5	\$A6	\$A7	\$A8	\$A9	\$AA	\$AB	\$AC	\$AD	\$AE	\$AF
Alt/	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175
5	ı	ı	ı	ı	-	-	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
key	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
latin1	00C0	00C1	00C2	00C3	00C4	00C5	00C6	00C7	00C8	00C9	00CA	00CB	00CC	00CD	00CE	00CF
Hex	\$C0	\$C1	\$C2	\$C3	\$C4	\$C5	\$C6	\$C7	\$C8	\$C9	\$CA	\$CB	\$CC	\$CD	\$CE	\$CF
Alt/	0192	0193	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207
6	E0	E1	«	»	Ů	ǎ	Ů	ǎ	Ů	E9	EA	EB	EC	ED	EE	Ɔ
key	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
latin1	00E0	00E1	00E2	00E3	00E4	00E5	00E6	00E7	00E8	00E9	00EA	00EB	00EC	00ED	00EE	00EF
Hex	\$E0	\$E1	\$E2	\$E3	\$E4	\$E5	\$E6	\$E7	\$E8	\$E9	\$EA	\$EB	\$EC	\$ED	\$EE	\$EF
Alt/	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0	̂ €	̃ €	̄ €	̅ €	̆ €	ç	̄ C			é	·	;	ū	ê	ā	α
key	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
Hex	\$30	\$31	\$32	\$33	\$34	\$35	\$36	\$37	\$38	\$39	\$3A	\$3B	\$3C	\$3D	\$3E	\$3F
Alt/	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063
1	Π	Θ	Ρ	Σ	Τ	Υ	Ϝ	Ω	Χ	Ψ	Ζ	̂ €	̃ €	̄ €	Û	̀ ω
key	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
Hex	\$50	\$51	\$52	\$53	\$54	\$55	\$56	\$57	\$58	\$59	\$5A	\$5B	\$5C	\$5D	\$5E	\$5F
Alt/	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095
2	π	θ	ρ	σ	τ	υ	ϝ	ω	χ	ψ	ζ	̂ ω	̃ α	̄ ω	̅ ω	⊞
key	p	q	r	s	t	u	v	w	x	y	z	{		}	~	c/I
Hex	\$70	\$71	\$72	\$73	\$74	\$75	\$76	\$77	\$78	\$79	\$7A	\$7B	\$7C	\$7D	\$7E	\$7F
Alt/	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125	0126	0127
3	⊞	⌘	⌘	“	”	•	—	—	~	™	š	›	œ	⊞	ž	ÿ
key	·	˘	˙	“	”	•	—	—	~	™	š	›	œ	•	ž	ÿ
latin1	undef	2018	2019	201C	201D	2022	2013	2014	02DC	2122	0161	203A	0153	undef	017E	0178
Hex	\$90	\$91	\$92	\$93	\$94	\$95	\$96	\$97	\$98	\$99	\$9A	\$9B	\$9C	\$9D	\$9E	\$9F
Alt/	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159
4	0	1	2	3	4	5	6	7	8	9	:	[\]	Ⓞ	Ⓟ
key	°	±	²	³	´	μ	¶	·	¸	¹	º	»	¼	½	¾	¿
latin1	00B0	00B1	00B2	00B3	00B4	00B5	00B6	00B7	00B8	00B9	00BA	00BB	00BC	00BD	00BE	00BF
Hex	\$B0	\$B1	\$B2	\$B3	\$B4	\$B5	\$B6	\$B7	\$B8	\$B9	\$BA	\$BB	\$BC	\$BD	\$BE	\$BF
Alt/	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191
5	ā	Ⓔ	D2	D3	D4	D5	D6	D7	D8	D9	DA	{	-	}	DE	DF
key	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
latin1	00D0	00D1	00D2	00D3	00D4	00D5	00D6	00D7	00D8	00D9	00DA	00DB	00DC	00DD	00DE	00DF
Hex	\$D0	\$D1	\$D2	\$D3	\$D4	\$D5	\$D6	\$D7	\$D8	\$D9	\$DA	\$DB	\$DC	\$DD	\$DE	\$DF
Alt/	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223
6	ƒ	ℳ	℔	€	F4	F5	F6	F7	F8	F9	FA	FB	FC	FD	FE	FF
key	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ
latin1	00F0	00F1	00F2	00F3	00F4	00F5	00F6	00F7	00F8	00F9	00FA	00FB	00FC	00FD	00FE	00FF
Hex	\$F0	\$F1	\$F2	\$F3	\$F4	\$F5	\$F6	\$F7	\$F8	\$F9	\$FA	\$FB	\$FC	\$FD	\$FE	\$FF
Alt/	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255