

## Greek Unicode with `lgrenc.dfu`

The definitions in `lgrenc.dfu` provide standards-compatible UTF-8 support for Greek based on the extended font encoding definitions in `lgrxenc.def`.

Like other *inputenc* Unicode definitions, they only work for text in the correct font encoding (in this case LGR). The font encoding is automatically set to LGR by the babel-languages *greek* and *polutonikogreek*.

Combined with the accompanying package `textalpha.sty`, Greek Unicode characters can be used without explicit language or font-encoding change – with some limitations (kerning, MakeUppercase/MakeLowercase, multiple accents) described in `textalpha-test`.

### Greek and Coptic

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
370	*	*	*	*	'	'	*	*	.	.	.	*	*	*	;	
380	.	.	.	.	'	'	'A	.	'E	'H	'I	.	'O	.	'Υ	'Ω
390	ι	Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο
3A0	Π	Ρ	.	Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί
3B0	ύ	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο
3C0	π	ρ	ς	σ	τ	υ	φ	χ	ψ	ω	ϊ	ϋ	ό	ύ	ώ	
3D0	*	*	*	*	*	*	*	*	Ω	φ	Γ	τ	F	F	*	ι
3E0	λ	λ	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3F0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

\* glyph missing in LGR, . Unicode point not defined

**Greek Extended**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1F00	ά	á	â	ã	ä	å	æ	ç	À	Á	Â	Ã	Ä	Å	Æ	Ç
1F10	è	é	ê	ë	ë	ë	.	.	È	É	Ê	Ë	Ë	Ë	.	.
1F20	ή	ή	ή	ή	ή	ή	ή	ή	Η	Η	Η	Η	Η	Η	Η	Η
1F30	ι	ι	ι	ι	ι	ι	ι	ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
1F40	ο	ο	ο	ο	ο	ο	.	.	Ο	Ο	Ο	Ο	Ο	Ο	.	.
1F50	ύ	ύ	ύ	ύ	ύ	ύ	ύ	ύ	.	Υ	.	Υ	.	Υ	.	Υ
1F60	ω	ω	ω	ω	ω	ω	ω	ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω
1F70	ά	ά	έ	έ	ή	ή	ι	ι	ο	ο	ύ	ύ	ώ	ώ	.	.
1F80	ά	ά	ά	ά	ά	ά	ά	ά	Α₁							
1F90	ή	ή	ή	ή	ή	ή	ή	ή	Η₁							
1FA0	φ	φ	φ	φ	φ	φ	φ	φ	Ω₁							
1FB0	ά	ά	ά	ά	ά	.	ά	ά	Ă	Ă	Ă	Ă	Ă	Ă	Ă	Ă
1Fc0	~	~	ή	ή	ή	.	ή	ή	È	È	È	È	È	È	È	È
1FD0	ı	ı	ı	ı	.	.	ı	ı	İ	İ	İ	İ	İ	.	.	.
1FE0	ÿ	ÿ	ÿ	ÿ	ÿ	ÿ	ÿ	ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ
1FF0	.	.	φ	φ	φ	.	ω	ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω

**Other Unicode Blocks**

Latin-1 Supplement: “ « - ’ . »

IPA Extensions: ə

Spacing Modifier Letters: ˘α

General Punctuation: ZWNJ<sup>1</sup>: AΥ (comp. AΥ) — — ‘ ’ %

Currency Symbols: €

Ancient Greek Numbers: ͵ Ͷ ͷ ͸

**MakeUppercase, MakeLowercase**

Other Unicode Blocks

“ « - ’ . » “ « - ’ . »

ə ə

˘A ˘α

AΥ (≠ AΥ) — — ‘ ’ % αυ (≠ αυ) — — ‘ ’ %

€ €

͵ Ͷ ͷ ͸ ͵ Ͷ ͷ ͸

<sup>1</sup>zero width no joiner

Greek and Coptic

‘,τ;̄  
“Α·ΕΗΙΟΥΩ  
ĪΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟ  
ΠΡΣΤΥΦΧΨΩĪŶΑΕΗΙ  
ŶΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟ  
ΠΡΣΣΤΥΦΧΨΩĪŶΟΥΩ  
ϠϡϢϣϤϥ  
λ λ

‘,τ;̄  
“ά·έήίόύώ  
ίαβγδεζηθικλμνξο  
πρςτυφχψωϊϋάέήί  
ύαβγδεζηθικλμνξο  
πρςστυφχψωϊϋόύώ  
ϠϡϣϤϥϦ  
λ λ

The lowercase of Σ is the «auto-sigma»: Σ ↦ ς, ΣΤ ↦ στ. Add a ZWNJ or use the `\noboundary` macro to prevent conversion to final sigma: σ σ. The lowercase of Γ is ϛ.

