

## **Greek and Coptic**

### **Range: 0370–03FF**

#### **The Unicode Standard, Version 4.0**

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 4.0*.

Characters in this chart that are new for The Unicode Standard, Version 4.0 are shown in conjunction with any existing characters. For ease of reference, the new characters have been highlighted in the chart grid and in the names list.

This file will not be updated with errata, or when additional characters are assigned to the Unicode Standard. See <http://www.unicode.org/charts> for access to a complete list of the latest character charts.

#### **Disclaimer**

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 4.0 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this excerpt file, please consult the appropriate sections of The Unicode Standard, Version 4.0 (ISBN 0-321-18578-1), as well as Unicode Standard Annexes #9, #11, #14, #15, #24 and #29, the other Unicode Technical Reports and the Unicode Character Database, which are available on-line.

See <http://www.unicode.org/Public/UNIDATA/UCD.html> and <http://www.unicode.org/unicode/reports>

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

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See <http://www.unicode.org/pending/pending.html> and <http://www.unicode.org/unicode/alloc/Pipeline.html>.

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	037	038	039	03A	03B	03C	03D	03E	03F
0			í 0390	Π 03A0	ú 03B0	π 03C0	β 03D0	ϑ 03E0	κ 03F0
1			Α 0391	Ρ 03A1	α 03B1	ρ 03C1	ϑ 03D1	ϣ 03E1	ρ 03F1
2			Β 0392		β 03B2	ς 03C2	Υ 03D2	ϣ 03E2	Ϸ 03F2
3			Γ 0393	Σ 03A3	γ 03B3	σ 03C3	Υ 03D3	ϣ 03E3	ι 03F3
4	' 0374	' 0384	Δ 0394	Τ 03A4	δ 03B4	τ 03C4	Ͽ 03D4	ϥ 03E4	Θ 03F4
5	' 0375	' 0385	Ε 0395	Υ 03A5	ε 03B5	υ 03C5	ϕ 03D5	ϥ 03E5	€ 03F5
6			Α 0386	Ζ 0396	Φ 03A6	ζ 03B6	φ 03C6	ϖ 03D6	Ϸ 03E6
7			· 0387	Η 0397	Χ 03A7	η 03B7	χ 03C7	ϣ 03D7	Ϸ 03E7
8			Έ 0388	Θ 0398	Ψ 03A8	θ 03B8	ψ 03C8	Ϸ 03D8	Ϸ 03E8
9			Ή 0389	Ι 0399	Ω 03A9	ι 03B9	ω 03C9	Ϸ 03D9	Ϸ 03E9
A	' 037A	Ί 038A	Κ 039A	Ϊ 03AA	κ 03BA	ϊ 03CA	Σ 03DA	Χ 03EA	Μ 03FA
B			Λ 039B	Ϊ 03AB	λ 03BB	ü 03CB	ς 03DB	ϣ 03EB	Μ 03FB
C			Ό 038C	Μ 039C	ά 03AC	μ 03BC	ό 03CC	Ϸ 03DC	
D			Ν 039D	Έ 03AD	ν 03BD	ύ 03CD	Ϸ 03DD	Ϸ 03ED	
E	; 037E	Υ 038E	Ε 039E	ή 03AE	ξ 03BE	ώ 03CE	Ϸ 03DE	Ϸ 03EE	
F			Ό 038F	Ο 039F	ί 03AF	ο 03BF		Ϸ 03DF	† 03EF

**Based on ISO 8859-7**

0374	´	GREEK NUMERAL SIGN = dexia keraia • indicates numeric use of letters → 02CA ´ modifier letter acute accent ≡ 02B9 ´ modifier letter prime	038C	Ό	GREEK CAPITAL LETTER OMICRON WITH TONOS ≡ 039F O 0301 ֆ
0375	,	GREEK LOWER NUMERAL SIGN = aristeri keraia • indicates numeric use of letters → 02CF , modifier letter low acute accent	038D	◻	<reserved>
0376	◻	<reserved>	038E	Υ	GREEK CAPITAL LETTER UPSILON WITH TONOS ≡ 03A5 Y 0301 ֆ
0377	◻	<reserved>	038F	Ω	GREEK CAPITAL LETTER OMEGA WITH TONOS ≡ 03A9 Ω 0301 ֆ
0378	◻	<reserved>	0390	ϊ	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS ≡ 03CA ι 0301 ֆ
0379	◻	<reserved>	0391	Α	GREEK CAPITAL LETTER ALPHA
037A	˘	GREEK YPOGEGRAMMENI = iota subscript → 0345 ˘ combining greek ypogegrammeni ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">sp</span> 0345 ˘	0392	Β	GREEK CAPITAL LETTER BETA
037B	◻	<reserved>	0393	Γ	GREEK CAPITAL LETTER GAMMA = gamma function
037C	◻	<reserved>	0394	Δ	GREEK CAPITAL LETTER DELTA → 2206 Δ increment
037D	◻	<reserved>	0395	Ε	GREEK CAPITAL LETTER EPSILON
037E	;	GREEK QUESTION MARK = erotimatiko • sentence-final punctuation • 003B ; is the preferred character → 003F ? question mark ≡ 003B ; semicolon	0396	Ζ	GREEK CAPITAL LETTER ZETA
037F	◻	<reserved>	0397	Η	GREEK CAPITAL LETTER ETA
0380	◻	<reserved>	0398	Θ	GREEK CAPITAL LETTER THETA
0381	◻	<reserved>	0399	Ι	GREEK CAPITAL LETTER IOTA = iota adscript
0382	◻	<reserved>	039A	Κ	GREEK CAPITAL LETTER KAPPA
0383	◻	<reserved>	039B	Λ	GREEK CAPITAL LETTER LAMDA
0384	´	GREEK TONOS → 00B4 ´ acute accent → 030D ˆ combining vertical line above ≈ 0020 <span style="border: 1px dashed black; padding: 0 2px;">sp</span> 0301 ֆ	039C	Μ	GREEK CAPITAL LETTER MU
0385	ˆ	GREEK DIALYTIKA TONOS ≡ 00A8 ˆ 0301 ֆ	039D	Ν	GREEK CAPITAL LETTER NU
0386	Α	GREEK CAPITAL LETTER ALPHA WITH TONOS ≡ 0391 Α 0301 ֆ	039E	Ξ	GREEK CAPITAL LETTER XI
0387	·	GREEK ANO TELEIA • functions in Greek like a semicolon • 00B7 · is the preferred character ≡ 00B7 · middle dot	039F	Ο	GREEK CAPITAL LETTER OMICRON
0388	Ε	GREEK CAPITAL LETTER EPSILON WITH TONOS ≡ 0395 Ε 0301 ֆ	03A0	Π	GREEK CAPITAL LETTER PI → 220F ∏ n-ary product
0389	Η	GREEK CAPITAL LETTER ETA WITH TONOS ≡ 0397 Η 0301 ֆ	03A1	Ρ	GREEK CAPITAL LETTER RHO
038A	Ι	GREEK CAPITAL LETTER IOTA WITH TONOS ≡ 0399 Ι 0301 ֆ	03A2	◻	<reserved>
038B	◻	<reserved>	03A3	Σ	GREEK CAPITAL LETTER SIGMA → 01A9 Σ latin capital letter esh → 2211 ∑ n-ary summation
			03A4	Τ	GREEK CAPITAL LETTER TAU
			03A5	Υ	GREEK CAPITAL LETTER UPSILON
			03A6	Φ	GREEK CAPITAL LETTER PHI
			03A7	Χ	GREEK CAPITAL LETTER CHI
			03A8	Ψ	GREEK CAPITAL LETTER PSI
			03A9	Ω	GREEK CAPITAL LETTER OMEGA → 2126 Ω ohm sign → 2127 Ω inverted ohm sign
			03AA	ϊ	GREEK CAPITAL LETTER IOTA WITH DIALYTIKA ≡ 0399 Ι 0308 ֆ
			03AB	Υ̂	GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA ≡ 03A5 Υ 0308 ֆ
			03AC	α	GREEK SMALL LETTER ALPHA WITH TONOS ≡ 03B1 α 0301 ֆ

03AD	έ	GREEK SMALL LETTER EPSILON WITH TONOS ≡ 03B5 ε 0301 ς
03AE	ή	GREEK SMALL LETTER ETA WITH TONOS ≡ 03B7 η 0301 ς
03AF	ί	GREEK SMALL LETTER IOTA WITH TONOS ≡ 03B9 ι 0301 ς
03B0	ϊ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS ≡ 03CB ü 0301 ς
03B1	α	GREEK SMALL LETTER ALPHA → 0251 α latin small letter alpha → 221D ∝ proportional to
03B2	β	GREEK SMALL LETTER BETA → 00DF β latin small letter sharp s → 0180 б latin small letter b with stroke
03B3	γ	GREEK SMALL LETTER GAMMA → 0263 γ latin small letter gamma
03B4	δ	GREEK SMALL LETTER DELTA
03B5	ε	GREEK SMALL LETTER EPSILON → 025B ε latin small letter open e
03B6	ζ	GREEK SMALL LETTER ZETA
03B7	η	GREEK SMALL LETTER ETA
03B8	θ	GREEK SMALL LETTER THETA → 0275 ø latin small letter barred o → 0473 ө cyrillic small letter fita
03B9	ι	GREEK SMALL LETTER IOTA → 0269 ι latin small letter iota → 2129 ϭ turned greek small letter iota
03BA	κ	GREEK SMALL LETTER KAPPA
03BB	λ	GREEK SMALL LETTER LAMDA = lambda
03BC	μ	GREEK SMALL LETTER MU → 00B5 μ micro sign
03BD	ν	GREEK SMALL LETTER NU
03BE	ξ	GREEK SMALL LETTER XI
03BF	ο	GREEK SMALL LETTER OMICRON
03C0	π	GREEK SMALL LETTER PI • math constant 3.141592...
03C1	ρ	GREEK SMALL LETTER RHO
03C2	ς	GREEK SMALL LETTER FINAL SIGMA = stigma (the Modern Greek name for this letterform) • not to be confused with the actual stigma letter → 03DB Ϸ greek small letter stigma
03C3	σ	GREEK SMALL LETTER SIGMA • used symbolically with a numeric value 200
03C4	τ	GREEK SMALL LETTER TAU
03C5	υ	GREEK SMALL LETTER UPSILON → 028A υ latin small letter upsilon → 028B v latin small letter v with hook

03C6	φ	GREEK SMALL LETTER PHI → 0278 φ latin small letter phi → 03D5 ϕ greek phi symbol • the ordinary Greek letter, showing considerable glyph variation • in mathematical contexts, the loopy glyph is preferred, to contrast with 03D5 ϕ
03C7	χ	GREEK SMALL LETTER CHI
03C8	ψ	GREEK SMALL LETTER PSI
03C9	ω	GREEK SMALL LETTER OMEGA
03CA	ϊ	GREEK SMALL LETTER IOTA WITH DIALYTIKA ≡ 03B9 ι 0308 ö
03CB	ϋ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA ≡ 03C5 υ 0308 ö
03CC	ό	GREEK SMALL LETTER OMICRON WITH TONOS ≡ 03BF ο 0301 ς
03CD	ύ	GREEK SMALL LETTER UPSILON WITH TONOS ≡ 03C5 υ 0301 ς
03CE	ώ	GREEK SMALL LETTER OMEGA WITH TONOS ≡ 03C9 ω 0301 ς

### Variant letterforms

03D0	β	GREEK BETA SYMBOL = GREEK SMALL LETTER CURLED BETA ≈ 03B2 β greek small letter beta
03D1	ϑ	GREEK THETA SYMBOL = GREEK SMALL LETTER SCRIPT THETA • used as a technical symbol ≈ 03B8 θ greek small letter theta
03D2	Υ	GREEK UPSILON WITH HOOK SYMBOL = GREEK CAPITAL LETTER UPSILON HOOK ≈ 03A5 Y greek capital letter upsilon
03D3	Υ̇	GREEK UPSILON WITH ACUTE AND HOOK SYMBOL = GREEK CAPITAL LETTER UPSILON HOOK TONOS ≡ 03D2 Υ 0301 ς
03D4	Ϛ	GREEK UPSILON WITH DIAERESIS AND HOOK SYMBOL = GREEK CAPITAL LETTER UPSILON HOOK DIAERESIS ≡ 03D2 Υ 0308 ö
03D5	ϕ	GREEK PHI SYMBOL • used as a technical symbol, with a stroked glyph • maps to “phi1” symbol entities ≈ 03C6 φ greek small letter phi

- 03D6  $\omega$  GREEK PI SYMBOL  
= GREEK SMALL LETTER OMEGA PI  
• used as a technical symbol  
• a variant of pi, looking like omega  
≈ 03C0  $\pi$  greek small letter pi
- 03D7  $\varkappa$  GREEK KAI SYMBOL  
• used as an ampersand

**Archaic letters**

- 03D8  $\Omega$  GREEK LETTER ARCHAIC KOPPA
- 03D9  $\omega$  GREEK SMALL LETTER ARCHAIC KOPPA  
• the Q-shaped archaic koppas are the ordinary alphabetic letters
- 03DA  $\Sigma$  GREEK LETTER STIGMA  
• apparently in origin a cursive form of digamma  
• the name “stigma” originally applied to a medieval sigma-tau ligature, whose shape was confusably similar to the cursive digamma  
• used as a symbol with a numeric value of 6
- 03DB  $\varsigma$  GREEK SMALL LETTER STIGMA  
→ 03C2  $\varsigma$  greek small letter final sigma
- 03DC  $\Phi$  GREEK LETTER DIGAMMA
- 03DD  $\phi$  GREEK SMALL LETTER DIGAMMA  
• used as a symbol with a numeric value of 6
- 03DE  $\chi$  GREEK LETTER KOPPA
- 03DF  $\chi$  GREEK SMALL LETTER KOPPA  
• used in modern Greek as a symbol with a numeric value of 90, as in the dating of legal documentation
- 03E0  $\Upsilon$  GREEK LETTER SAMPI
- 03E1  $\ypsilon$  GREEK SMALL LETTER SAMPI  
• used as a symbol with a numeric value of 900

**Coptic letters derived from Demotic**

- 03E2  $\Upsilon$  COPTIC CAPITAL LETTER SHEI
- 03E3  $\ypsilon$  COPTIC SMALL LETTER SHEI
- 03E4  $\Phi$  COPTIC CAPITAL LETTER FEI
- 03E5  $\phi$  COPTIC SMALL LETTER FEI
- 03E6  $\chi$  COPTIC CAPITAL LETTER KHEI
- 03E7  $\chi$  COPTIC SMALL LETTER KHEI
- 03E8  $\theta$  COPTIC CAPITAL LETTER HORI
- 03E9  $\theta$  COPTIC SMALL LETTER HORI
- 03EA  $\chi$  COPTIC CAPITAL LETTER GANGIA
- 03EB  $\chi$  COPTIC SMALL LETTER GANGIA
- 03EC  $\sigma$  COPTIC CAPITAL LETTER SHIMA
- 03ED  $\sigma$  COPTIC SMALL LETTER SHIMA
- 03EE  $\tau$  COPTIC CAPITAL LETTER DEI
- 03EF  $\tau$  COPTIC SMALL LETTER DEI

**Variant letterforms**

- 03F0  $\varkappa$  GREEK KAPPA SYMBOL  
= GREEK SMALL LETTER SCRIPT KAPPA  
• used as technical symbol  
≈ 03BA  $\kappa$  greek small letter kappa
- 03F1  $\rho$  GREEK RHO SYMBOL  
= GREEK SMALL LETTER TAILED RHO  
• used as technical symbol  
≈ 03C1  $\rho$  greek small letter rho
- 03F2  $\sigma$  GREEK LUNATE SIGMA SYMBOL  
= GREEK SMALL LETTER LUNATE SIGMA  
≈ 03C2  $\sigma$  greek small letter final sigma

**Additional letter**

- 03F3  $\jmath$  GREEK LETTER YOT

**Variant letterforms and symbols**

- 03F4  $\Theta$  GREEK CAPITAL THETA SYMBOL  
→ 0472  $\Theta$  cyrillic capital letter fita  
≈ 0398  $\Theta$  greek capital letter theta
- 03F5  $\epsilon$  GREEK LUNATE EPSILON SYMBOL  
= straight epsilon  
→ 220A  $\epsilon$  small element of  
≈ 03B5  $\epsilon$  greek small letter epsilon
- 03F6  $\varepsilon$  GREEK REVERSED LUNATE EPSILON SYMBOL  
= reversed straight epsilon  
→ 220D  $\varepsilon$  small contains as member

**Additional archaic letters for Bactrian**

- 03F7  $\rho$  GREEK CAPITAL LETTER SHO
- 03F8  $\rho$  GREEK SMALL LETTER SHO

**Variant letterform**

- 03F9  $\Sigma$  GREEK CAPITAL LUNATE SIGMA SYMBOL  
≈ 03A3  $\Sigma$  greek capital letter sigma

**Archaic letters**

- 03FA  $\mathcal{M}$  GREEK CAPITAL LETTER SAN
- 03FB  $\mathcal{m}$  GREEK SMALL LETTER SAN