# **Greek and Coptic**

Range: 0370-03FF

## The Unicode Standard, Version 15.1

This file contains a excerpt from the character code tables and list of character names for *The Unicode Standard, Version 15.1* 

This file may be changed at any time without notice to reflect errata, or other updates to the Unicode Standard. See https://www.unicode.org/errata/ for an up-to-date list of errata.

See https://www.unicode.org/charts/ for access to a complete list of the latest character code charts. See https://www.unicode.org/charts/PDF/Unicode-15.1/ for charts showing only the characters added in Unicode 15.1. See https://www.unicode.org/Public/15.1.0/charts/ for a complete archived file of character code charts for Unicode 15.1. See https://www.unicode.org/charts/About.html#Conventions for conventions used in these code charts, and other general information.

### Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 15.1 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 file, please consult the appropriate sections of The Unicode Standard, Version 15.1, online at https://www.unicode.org/versions/Unicode15.1.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, #45, and #50, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

## See https://www.unicode.org/ucd/ and http://www.unicode.org/reports/

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

Copying characters from the character code tables or list of character names is not recommended, because for production reasons the PDF files for the code charts cannot guarantee that the correct character codes will always be copied.

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

See https://www.unicode.org/charts/About.html for more information concerning the conventions and symbols used in these code charts.

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	037	038	039	03A	03B	03C	03D	03E	03F
0	<b>I</b> -		<b>i</b>	03A0	ΰ 03B0	π 03C0	6	3 03E0	<b>X</b>
1	<b>}</b>		<b>A</b> 0391	<b>P</b>	<b>O</b> 03B1	<b>P</b>	<b>9</b>	) 03E1	<b>Q</b> 03F1
2	<b>T</b>		<b>B</b>		$\underset{\scriptscriptstyle{03B2}}{\beta}$	<b>S</b>	<b>Y</b>	<b>Q</b>	<b>C</b>
3	<b>T</b>		<b>Г</b>	<b>∑</b>	<b>γ</b>	<b>O</b>	<b>Y</b>	<b>9</b>	<b>j</b> 03F3
4	0374	0384	0394	T 03A4	<b>8</b>	τ 03C4	<b>Ÿ</b>	<b>Q</b> 03E4	<b>O</b> 03F4
5	1	.4.	Е	Y	3	υ	ф	q	€
6	0375	0385 <b>A</b> 0386	0395 <b>Z</b> 0396	03A5 <b>Ф</b> 03A6	03B5 03B6	03C5 <b>Ф</b> 03C6	03D5 03D6	03E5 <b>b</b> 03E6	03F5 <b>Э</b> 03F6
7	и	•	H 0397	X 03A7	η	<b>X</b>	75 03D7	<b>b</b>	Þ
8	0377	0387 'E 0388	(H) (1398) (1398)	<b>Ф</b>	03B7 <b>O</b> 03B8	<b>У</b>	03D7 Q 03D8	<b>2</b> 03E8	03F7 <b>þ</b> 03F8
9		'H	I 0399	03A9	1 03B9	<b>W</b>	<b>Q</b> 03D9	<b>2</b> 03E9	03F9
Α	υ 037A	'I	<b>K</b>	Ï 03AA	<b>K</b>	i 03CA	<b>C</b> 03DA	03E9	M 03FA
В	O37B		<b>1</b> 039B	<b>Ÿ</b>	<b>λ</b>	Ü 03CB	O3DB	X 03EB	M 03FB
С	e	Ö	M	ά	μ	ó	F	6	ρ
D	037C <b>Э</b>	038C	039C	03AC <b>É</b>	V 03BC	Ú	F 03DC	03EC	03FC
E	037D • •	'Y	039D	03AD <b>ή</b>	03BD ξ	ú ú	03DD	03ED	03FD
F	037E	038E	039E 039F	03AE <b>1</b> 03AF	03BE  O 03BF	03CE <b>K</b> 03CF	03DE <b>2</b> 03DF	03EE  1 03EF	03FE <b>3</b> 03FF

Casing relationships between Greek letters are complex and **Punctuation** not self-evident from inspection of the charts. See the core 0387 **GREEK ANO TELEIA** specification for details. • functions in Greek like a semicolon • 00B7 · is the preferred character **Archaic letters** ≡ 00B7 · middle dot 0370 I GREEK CAPITAL LETTER HETA → 2C75 F latin capital letter half h Letters 0371 **GREEK SMALL LETTER HETA** 0388 **E** GREEK CAPITAL LETTER EPSILON WITH TONOS → 2C76 F latin small letter half h **=** 0395 **E** 0301 6 Т 0372 GREEK CAPITAL LETTER ARCHAIC SAMPI 0389 'H GREEK CAPITAL LETTER ETA WITH TONOS 0373 Т GREEK SMALL LETTER ARCHAIC SAMPI **=** 0397 **H** 0301 6 038A **GREEK CAPITAL LETTER IOTA WITH TONOS Numeral signs =** 0399 **I** 0301 6 0374 **GREEK NUMERAL SIGN** 038B <reserved> = dexia keraia 038C õ GREEK CAPITAL LETTER OMICRON WITH • indicates numeric use of letters **TONOS** → 02CA ′ modifier letter acute accent **=** 039F **O** 0301 6 ≡ 02B9 ′ modifier letter prime 038D <reserved> 0375 **GREEK LOWER NUMERAL SIGN** 038E GREEK CAPITAL LETTER UPSILON WITH TONOS = aristeri keraia **=** 03A5 **Y** 0301 6 • indicates numeric use of letters 038F **GREEK CAPITAL LETTER OMEGA WITH TONOS** → 02CF , modifier letter low acute accent  $\equiv$  03A9  $\Omega$  0301  $\circ$ **Archaic letters** 0390 GREEK SMALL LETTER IOTA WITH DIALYTIKA 0376 И GREEK CAPITAL LETTER PAMPHYLIAN AND TONOS **DIGAMMA ≡** 03CA **i** 0301 ≤ 0377 и GREEK SMALL LETTER PAMPHYLIAN DIGAMMA 0391 Α GREEK CAPITAL LETTER ALPHA 0392 В **GREEK CAPITAL LETTER BETA** lota subscript 0393 Γ GREEK CAPITAL LETTER GAMMA 037A **GREEK YPOGEGRAMMENI** = gamma function = iota subscript → 213E F double-struck capital gamma → 0345 o combining greek ypogegrammeni 0394 Δ **GREEK CAPITAL LETTER DELTA** ≈ 0020 sp 0345 o  $\rightarrow$  2206  $\Delta$  increment Lowercase of editorial symbols 0395 Ε **GREEK CAPITAL LETTER EPSILON** GREEK SMALL REVERSED LUNATE SIGMA 037B 0396 7. GREEK CAPITAL LETTER ZETA SYMBOL 0397 Η GREEK CAPITAL LETTER ETA 037C **GREEK SMALL DOTTED LUNATE SIGMA**  $\mathbf{e}$ 0398 Θ **GREEK CAPITAL LETTER THETA SYMBOL** 0399 Ι **GREEK CAPITAL LETTER IOTA** 037D **GREEK SMALL REVERSED DOTTED LUNATE** = iota adscript SIGMA SYMBOL 039A K GREEK CAPITAL LETTER KAPPA **Punctuation** 039B Λ **GREEK CAPITAL LETTER LAMDA** 037E ; GREEK QUESTION MARK 039C **GREEK CAPITAL LETTER MU** = erotimatiko 039D GREEK CAPITAL LETTER NU • sentence-final punctuation 039E **GREEK CAPITAL LETTER XI** • 003B; is the preferred character 039F O **GREEK CAPITAL LETTER OMICRON**  $\rightarrow$  003F ? question mark 03A0 П GREEK CAPITAL LETTER PI  $\equiv$  003B; semicolon **Additional letter** → 220F ∏ n-ary product 03A1 P **GREEK CAPITAL LETTER RHO** 037F J **GREEK CAPITAL LETTER YOT** 03A2 <reserved> lowercase is 03F3 i 03A3 **GREEK CAPITAL LETTER SIGMA** Spacing accent marks  $\rightarrow$  01A9  $\Sigma$  latin capital letter esh 0384 **GREEK TONOS**  $\rightarrow$  2211  $\sum$  n-ary summation → 00B4 ′ acute accent 03A4 T **GREEK CAPITAL LETTER TAU** → 030D of combining vertical line above Y 03A5 **GREEK CAPITAL LETTER UPSILON** ≈ 0020 sp 0301 6 03A6 Φ **GREEK CAPITAL LETTER PHI** 0385 **GREEK DIALYTIKA TONOS** 03A7 X GREEK CAPITAL LETTER CHI compatibility decomposition (NFKD) is Ψ 03A8 GREEK CAPITAL LETTER PSI 0020 sp 0308 ö 0301 ó 03A9 Ω GREEK CAPITAL LETTER OMEGA **=** 00A8 " 0301 ′  $\rightarrow$  2126  $\Omega$  ohm sign Letter  $\rightarrow$  2127 inverted ohm sign 0386 A GREEK CAPITAL LETTER ALPHA WITH TONOS 03AA Ϊ GREEK CAPITAL LETTER IOTA WITH DIALYTIKA **=** 0391 **A** 0301 6 ≡ 0399 I 0308 ö

03AB	Ÿ	GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA	03C6	φ	GREEK SMALL LETTER PHI  • the ordinary Greek letter, showing considerable
03AC	ά	≡ 03A5 Y 0308 ° GREEK SMALL LETTER ALPHA WITH TONOS ≡ 03B1 α 0301 °			glyph variation • in mathematical contexts, the loopy glyph is preferred, to contrast with 03D5 φ
03AD	έ	GREEK SMALL LETTER EPSILON WITH TONOS  ≡ 03B5 ε 0301 6			→ 0278 $\phi$ latin small letter phi → 03D5 $\phi$ greek phi symbol
03AE	ή	GREEK SMALL LETTER ETA WITH TONOS  ≡ 03B7 η 0301 6	03C7	χ	GREEK SMALL LETTER CHI  → AB53 $\chi$ latin small letter chi
03AF	ί	GREEK SMALL LETTER IOTA WITH TONOS ≡ 03B9 1 0301 ♦	03C8 03C9	ψ ω	GREEK SMALL LETTER PSI GREEK SMALL LETTER OMEGA
03B0	ΰ	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS	03CA	ï	$ ightarrow$ A7B7 $\varpi$ latin small letter omega GREEK SMALL LETTER IOTA WITH DIALYTIKA
03B1	α	≡ 03CB Ü 0301 Ó  GREEK SMALL LETTER ALPHA  20251 g. latin small letter alpha	03CB	ΰ	≡ 03B9 ι 0308 ¨ GREEK SMALL LETTER UPSILON WITH DIALYTIKA
03B2	β	→ 0251 a latin small letter alpha → 221D a proportional to GREEK SMALL LETTER BETA	03CC	ó	≡ 03C5 v 0308 ° GREEK SMALL LETTER OMICRON WITH TONOS
0002	р	→ 00DF $\beta$ latin small letter sharp s → 0180 $\delta$ latin small letter b with stroke	03CD	ύ	= 03BF o 0301 6  GREEK SMALL LETTER UPSILON WITH TONOS
03B3	γ	$\rightarrow$ A7B5 $\beta$ latin small letter beta  GREEK SMALL LETTER GAMMA	03CE	ώ	≡ 03C5 v 0301 6  GREEK SMALL LETTER OMEGA WITH TONOS
0000	r	$ ightarrow$ 0263 $\gamma$ latin small letter gamma			<b>≡</b> 03C9 <b>ω</b> 0301 <sup>6</sup>
03B4	2	→ 213D y double-struck small gamma GREEK SMALL LETTER DELTA	Varia	nt le	tterforms
	δ		03CF	Ķ	GREEK CAPITAL KAI SYMBOL
03B5	3	GREEK SMALL LETTER EPSILON			$\rightarrow$ 03D7 $\chi$ greek kai symbol
0200	۶	→ 025B € latin small letter open e	03D0	б	GREEK BETA SYMBOL
03B6	ζ	GREEK SMALL LETTER ZETA			= curled beta
03B7	η	GREEK SMALL LETTER ETA			$\approx$ 03B2 $\beta$ greek small letter beta
03B8	θ	GREEK SMALL LETTER THETA	03D1	$\vartheta$	GREEK THETA SYMBOL
		$\rightarrow$ 0275 $\Theta$ latin small letter barred o			= script theta
		ightarrow 0473 $ m e o$ cyrillic small letter fita			<ul> <li>used as a technical symbol</li> </ul>
03B9	ι	GREEK SMALL LETTER IOTA			pprox 03B8 $ heta$ greek small letter theta
		$ ightarrow$ 0269 $\iota$ latin small letter iota	03D2	Υ	GREEK UPSILON WITH HOOK SYMBOL
		$\rightarrow$ 2129 1 turned greek small letter iota			$pprox$ 03A5 $\mathbf{Y}$ greek capital letter upsilon
03BA	κ	GREEK SMALL LETTER KAPPA	03D3	Υ	
03BB	λ	GREEK SMALL LETTER LAMDA		_	SYMBOL
		= lambda			≡ 03D2 Υ 0301 Ć
03BC	μ	GREEK SMALL LETTER MU	03D4	Ϋ	GREEK UPSILON WITH DIAERESIS AND HOOK
	•	$ ightarrow$ 00B5 $\mu$ micro sign		-	SYMBOL
03BD	ν	GREEK SMALL LETTER NU			≡ 03D2 <b>Υ</b> 0308 Ö
03BE	ξ	GREEK SMALL LETTER XI	03D5	φ	GREEK PHI SYMBOL
03BF	o	GREEK SMALL LETTER OMICRON		•	<ul> <li>used as a technical symbol, with a stroked</li> </ul>
03C0	π	GREEK SMALL LETTER PI			glyph
		• math constant 3.141592			<ul> <li>maps to "phi1" symbol entities</li> </ul>
03C1	ρ	GREEK SMALL LETTER RHO			$\approx$ 03C6 $\phi$ greek small letter phi
03C2	ζ	GREEK SMALL LETTER FINAL SIGMA	03D6	$\boldsymbol{\varpi}$	GREEK PI SYMBOL
	7	= stigma (the Modern Greek name for this			= omega pi
		letterform)			<ul> <li>used as a technical symbol</li> </ul>
		• not to be confused with the actual stigma			• a variant of pi, looking like omega
		letter			$pprox$ 03C0 $\pi$ greek small letter pi
		$ ightarrow$ 03DB $oldsymbol{\varsigma}$ greek small letter stigma	03D7	H,	GREEK KAI SYMBOL
03C3	σ	GREEK SMALL LETTER SIGMA		_	• used as an ampersand
		<ul> <li>used symbolically with a numeric value 200</li> </ul>			→ 2CE4 <b>қ</b> coptic symbol kai
03C4	τ	GREEK SMALL LETTER TAU	Archa	ماد ام	
03C5	υ	GREEK SMALL LETTER UPSILON			
		$ ightarrow$ 028A $\sigma$ latin small letter upsilon	03D8	Q	GREEK LETTER ARCHAIC KOPPA
		$\rightarrow$ 028B $v$ latin small letter v with hook	03D9	Q	GREEK SMALL LETTER ARCHAIC KOPPA
					<ul> <li>the Q-shaped archaic koppas are the ordinary alphabetic letters and can also be used as symbols with a numeric value of 90 in classical and pre-classical texts</li> </ul>

#### 03DA ς **GREEK LETTER STIGMA** • apparently in origin a cursive form of digamma • the name "stigma" originally applied to a medieval sigma-tau ligaturé, whose shape was confusably similar to the cursive digamma • used as a symbol with a numeric value of 6 → 2185 C roman numeral six late form 03DB GREEK SMALL LETTER STIGMA → 03C2 **c** greek small letter final sigma 03DC F **GREEK LETTER DIGAMMA** 03DD GREEK SMALL LETTER DIGAMMA F used as a symbol with a numeric value of 6 03DE **GREEK LETTER KOPPA** 03DF **GREEK SMALL LETTER KOPPA** • used in modern Greek as a symbol with a numeric value of 90, as in the dating of legal documentation 3 03E0 **GREEK LETTER SAMPI** 03E1 **GREEK SMALL LETTER SAMPI** used as a symbol with a numeric value of 900 **Coptic letters derived from Demotic** For other Coptic letters see the Coptic Block.

03E2 (1) COPTIC CAPITAL LETTER SHEI 03E3 a) COPTIC SMALL LETTER SHEI 03E4 q **COPTIC CAPITAL LETTER FEI** 03E5 **COPTIC SMALL LETTER FEI** q 03E6 b COPTIC CAPITAL LETTER KHEI 03E7 b COPTIC SMALL LETTER KHEI 03E8 COPTIC CAPITAL LETTER HORI

03E9 COPTIC SMALL LETTER HORI 03EA X COPTIC CAPITAL LETTER GANGIA

03EB 🕱 COPTIC SMALL LETTER GANGIA

03EC 6 COPTIC CAPITAL LETTER SHIMA

03ED 6 COPTIC SMALL LETTER SHIMA

03EE COPTIC CAPITAL LETTER DEI

03EF **COPTIC SMALL LETTER DEI** ተ

# Variant letterforms

03F0 χ GREEK KAPPA SYMBOL

= script kappa

• used as technical symbol  $\approx$  03BA  $\kappa$  greek small letter kappa

**GREEK RHO SYMBOL** 03F1 0

= tailed rho

• used as technical symbol

 $\approx$  03C1  $\rho$  greek small letter rho

03F2 **GREEK LUNATE SIGMA SYMBOL** C

> = greek small letter lunate sigma (1.0)  $\approx$  03C2  $\varsigma$  greek small letter final sigma

# **Additional letter**

**GREEK LETTER YOT** 03F3

uppercase is 037F J

## Variant letterforms and symbols

03F4 O GREEK CAPITAL THETA SYMBOL

→ 0472 **\Overlightarrow** cyrillic capital letter fita pprox 0398  $\Theta$  greek capital letter theta

03F5 € GREEK LUNATE EPSILON SYMBOL

= straight epsilon

→ 220A € small element of

 $\approx$  03B5  $\varepsilon$  greek small letter epsilon

03F6 **GREEK REVERSED LUNATE EPSILON SYMBOL** 

= reversed straight epsilon

→ 220D > small contains as member

## **Additional archaic letters for Bactrian**

D GREEK CAPITAL LETTER SHO

03F8 þ **GREEK SMALL LETTER SHO** 

### **Variant letterform**

03F9 C GREEK CAPITAL LUNATE SIGMA SYMBOL  $\approx$  03A3  $\Sigma$  greek capital letter sigma

## **Archaic letters**

03FA M **GREEK CAPITAL LETTER SAN** 

03FB **GREEK SMALL LETTER SAN** M

# Symbol

03FC ρ **GREEK RHO WITH STROKE SYMBOL** 

ullet used with abbreviations containing 03C1 ullet

## **Editorial symbols**

O3FD O GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL

= antisigma

03FE € **GREEK CAPITAL DOTTED LUNATE SIGMA** SYMBOL

= sigma periestigmenon

GREEK CAPITAL REVERSED DOTTED LUNATE 03FF

SIGMA SYMBOL

= antisigma periestigmenon