

## Enclosed Alphanumerics

**Range: 2460–24FF**

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 17.0*

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-17.0/> for charts showing only the characters added in Unicode 17.0. See <https://www.unicode.org/Public/17.0.0/charts/> for a complete archived file of character code charts for Unicode 17.0. 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 17.0 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 file, please consult the appropriate sections of The Unicode Standard, Version 17.0, online at <https://www.unicode.org/versions/Unicode17.0.0/>, as well as the Unicode Standard Annexes, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See <https://www.unicode.org/ucd/> and <https://www.unicode.org/reports/>

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

### Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts.

See <https://www.unicode.org/charts/fonts.html> for a list.

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	246	247	248	249	24A	24B	24C	24D	24E	24F
0	① 2460	⑱ 2470	⑬ 2480	9. 2490	(e) 24A0	(u) 24B0	Ⓚ 24C0	ⓐ 24D0	Ⓠ 24E0	⑯ 24F0
1	② 2461	⑲ 2471	⑭ 2481	10. 2491	(f) 24A1	(v) 24B1	Ⓛ 24C1	ⓑ 24D1	Ⓡ 24E1	⑰ 24F1
2	③ 2462	⑳ 2472	⑮ 2482	11. 2492	(g) 24A2	(w) 24B2	Ⓜ 24C2	ⓒ 24D2	Ⓢ 24E2	⑱ 24F2
3	④ 2463	㉑ 2473	⑯ 2483	12. 2493	(h) 24A3	(x) 24B3	Ⓝ 24C3	ⓓ 24D3	Ⓣ 24E3	⑰ 24F3
4	⑤ 2464	① 2474	⑰ 2484	13. 2494	(i) 24A4	(y) 24B4	Ⓞ 24C4	ⓔ 24D4	Ⓤ 24E4	㉒ 24F4
5	⑥ 2465	② 2475	⑱ 2485	14. 2495	(j) 24A5	(z) 24B5	Ⓟ 24C5	ⓕ 24D5	Ⓡ 24E5	① 24F5
6	⑦ 2466	③ 2476	⑲ 2486	15. 2496	(k) 24A6	Ⓐ 24B6	Ⓠ 24C6	ⓖ 24D6	Ⓦ 24E6	② 24F6
7	⑧ 2467	④ 2477	㉑ 2487	16. 2497	(l) 24A7	Ⓑ 24B7	Ⓡ 24C7	ⓗ 24D7	Ⓧ 24E7	③ 24F7
8	⑨ 2468	⑤ 2478	①. 2488	17. 2498	(m) 24A8	Ⓒ 24B8	Ⓢ 24C8	Ⓨ 24D8	Ⓩ 24E8	④ 24F8
9	⑩ 2469	⑥ 2479	②. 2489	18. 2499	(n) 24A9	Ⓓ 24B9	Ⓣ 24C9	Ⓩ 24D9	Ⓨ 24E9	⑤ 24F9
A	⑪ 246A	⑦ 247A	③. 248A	19. 249A	(o) 24AA	Ⓔ 24BA	Ⓤ 24CA	Ⓚ 24DA	Ⓞ 24EA	⑥ 24FA
B	⑫ 246B	⑧ 247B	④. 248B	20. 249B	(p) 24AB	Ⓕ 24BB	Ⓡ 24CB	Ⓛ 24DB	⑪ 24EB	⑦ 24FB
C	⑬ 246C	⑨ 247C	⑤. 248C	(a) 249C	(q) 24AC	Ⓖ 24BC	Ⓦ 24CC	Ⓜ 24DC	⑫ 24EC	⑧ 24FC
D	⑭ 246D	⑩ 247D	⑥. 248D	(b) 249D	(r) 24AD	Ⓖ 24BD	Ⓧ 24CD	Ⓝ 24DD	⑬ 24ED	⑨ 24FD
E	⑮ 246E	⑪ 247E	⑦. 248E	(c) 249E	(s) 24AE	Ⓘ 24BE	Ⓨ 24CE	Ⓞ 24DE	⑭ 24EE	⑩ 24FE
F	⑯ 246F	⑫ 247F	⑧. 248F	(d) 249F	(t) 24AF	Ⓙ 24BF	Ⓩ 24CF	Ⓟ 24DF	⑮ 24EF	⑰ 24FF

**Circled numbers**

- 2460 ① CIRCLED DIGIT ONE  
≈ <circle> 0031 1
- 2461 ② CIRCLED DIGIT TWO  
≈ <circle> 0032 2
- 2462 ③ CIRCLED DIGIT THREE  
≈ <circle> 0033 3
- 2463 ④ CIRCLED DIGIT FOUR  
≈ <circle> 0034 4
- 2464 ⑤ CIRCLED DIGIT FIVE  
≈ <circle> 0035 5
- 2465 ⑥ CIRCLED DIGIT SIX  
≈ <circle> 0036 6
- 2466 ⑦ CIRCLED DIGIT SEVEN  
≈ <circle> 0037 7
- 2467 ⑧ CIRCLED DIGIT EIGHT  
≈ <circle> 0038 8
- 2468 ⑨ CIRCLED DIGIT NINE  
≈ <circle> 0039 9
- 2469 ⑩ CIRCLED NUMBER TEN  
≈ <circle> 0031 1 0030 0
- 246A ⑪ CIRCLED NUMBER ELEVEN  
≈ <circle> 0031 1 0031 1
- 246B ⑫ CIRCLED NUMBER TWELVE  
≈ <circle> 0031 1 0032 2
- 246C ⑬ CIRCLED NUMBER THIRTEEN  
≈ <circle> 0031 1 0033 3
- 246D ⑭ CIRCLED NUMBER FOURTEEN  
≈ <circle> 0031 1 0034 4
- 246E ⑮ CIRCLED NUMBER FIFTEEN  
≈ <circle> 0031 1 0035 5
- 246F ⑯ CIRCLED NUMBER SIXTEEN  
≈ <circle> 0031 1 0036 6
- 2470 ⑰ CIRCLED NUMBER SEVENTEEN  
≈ <circle> 0031 1 0037 7
- 2471 ⑱ CIRCLED NUMBER EIGHTEEN  
≈ <circle> 0031 1 0038 8
- 2472 ⑲ CIRCLED NUMBER NINETEEN  
≈ <circle> 0031 1 0039 9
- 2473 ⑳ CIRCLED NUMBER TWENTY  
≈ <circle> 0032 2 0030 0

**Parenthesized numbers**

- 2474 (1) PARENTHESIZED DIGIT ONE  
≈ 0028 ( 0031 1 0029 )
- 2475 (2) PARENTHESIZED DIGIT TWO  
≈ 0028 ( 0032 2 0029 )
- 2476 (3) PARENTHESIZED DIGIT THREE  
≈ 0028 ( 0033 3 0029 )
- 2477 (4) PARENTHESIZED DIGIT FOUR  
≈ 0028 ( 0034 4 0029 )
- 2478 (5) PARENTHESIZED DIGIT FIVE  
≈ 0028 ( 0035 5 0029 )
- 2479 (6) PARENTHESIZED DIGIT SIX  
≈ 0028 ( 0036 6 0029 )
- 247A (7) PARENTHESIZED DIGIT SEVEN  
≈ 0028 ( 0037 7 0029 )
- 247B (8) PARENTHESIZED DIGIT EIGHT  
≈ 0028 ( 0038 8 0029 )
- 247C (9) PARENTHESIZED DIGIT NINE  
≈ 0028 ( 0039 9 0029 )
- 247D (10) PARENTHESIZED NUMBER TEN  
≈ 0028 ( 0031 1 0030 0 0029 )

- 247E (11) PARENTHESIZED NUMBER ELEVEN  
≈ 0028 ( 0031 1 0031 1 0029 )
- 247F (12) PARENTHESIZED NUMBER TWELVE  
≈ 0028 ( 0031 1 0032 2 0029 )
- 2480 (13) PARENTHESIZED NUMBER THIRTEEN  
≈ 0028 ( 0031 1 0033 3 0029 )
- 2481 (14) PARENTHESIZED NUMBER FOURTEEN  
≈ 0028 ( 0031 1 0034 4 0029 )
- 2482 (15) PARENTHESIZED NUMBER FIFTEEN  
≈ 0028 ( 0031 1 0035 5 0029 )
- 2483 (16) PARENTHESIZED NUMBER SIXTEEN  
≈ 0028 ( 0031 1 0036 6 0029 )
- 2484 (17) PARENTHESIZED NUMBER SEVENTEEN  
≈ 0028 ( 0031 1 0037 7 0029 )
- 2485 (18) PARENTHESIZED NUMBER EIGHTEEN  
≈ 0028 ( 0031 1 0038 8 0029 )
- 2486 (19) PARENTHESIZED NUMBER NINETEEN  
≈ 0028 ( 0031 1 0039 9 0029 )
- 2487 (20) PARENTHESIZED NUMBER TWENTY  
≈ 0028 ( 0032 2 0030 0 0029 )

**Numbers period**

*See also similar symbols starting at 1F100.*

- 2488 1. DIGIT ONE FULL STOP  
≈ 0031 1 002E .
- 2489 2. DIGIT TWO FULL STOP  
≈ 0032 2 002E .
- 248A 3. DIGIT THREE FULL STOP  
≈ 0033 3 002E .
- 248B 4. DIGIT FOUR FULL STOP  
≈ 0034 4 002E .
- 248C 5. DIGIT FIVE FULL STOP  
≈ 0035 5 002E .
- 248D 6. DIGIT SIX FULL STOP  
≈ 0036 6 002E .
- 248E 7. DIGIT SEVEN FULL STOP  
≈ 0037 7 002E .
- 248F 8. DIGIT EIGHT FULL STOP  
≈ 0038 8 002E .
- 2490 9. DIGIT NINE FULL STOP  
≈ 0039 9 002E .
- 2491 10. NUMBER TEN FULL STOP  
≈ 0031 1 0030 0 002E .
- 2492 11. NUMBER ELEVEN FULL STOP  
≈ 0031 1 0031 1 002E .
- 2493 12. NUMBER TWELVE FULL STOP  
≈ 0031 1 0032 2 002E .
- 2494 13. NUMBER THIRTEEN FULL STOP  
≈ 0031 1 0033 3 002E .
- 2495 14. NUMBER FOURTEEN FULL STOP  
≈ 0031 1 0034 4 002E .
- 2496 15. NUMBER FIFTEEN FULL STOP  
≈ 0031 1 0035 5 002E .
- 2497 16. NUMBER SIXTEEN FULL STOP  
≈ 0031 1 0036 6 002E .
- 2498 17. NUMBER SEVENTEEN FULL STOP  
≈ 0031 1 0037 7 002E .
- 2499 18. NUMBER EIGHTEEN FULL STOP  
≈ 0031 1 0038 8 002E .
- 249A 19. NUMBER NINETEEN FULL STOP  
≈ 0031 1 0039 9 002E .
- 249B 20. NUMBER TWENTY FULL STOP  
≈ 0032 2 0030 0 002E .

**Parenthesized Latin letters**

See also the uppercase set starting at 1F100. Parenthesized Latin letters do not have case mappings.

249C	(a)	PARENTHESIZED LATIN SMALL LETTER A ≈ 0028 ( 0061 a 0029 )
249D	(b)	PARENTHESIZED LATIN SMALL LETTER B ≈ 0028 ( 0062 b 0029 )
249E	(c)	PARENTHESIZED LATIN SMALL LETTER C ≈ 0028 ( 0063 c 0029 )
249F	(d)	PARENTHESIZED LATIN SMALL LETTER D ≈ 0028 ( 0064 d 0029 )
24A0	(e)	PARENTHESIZED LATIN SMALL LETTER E ≈ 0028 ( 0065 e 0029 )
24A1	(f)	PARENTHESIZED LATIN SMALL LETTER F ≈ 0028 ( 0066 f 0029 )
24A2	(g)	PARENTHESIZED LATIN SMALL LETTER G ≈ 0028 ( 0067 g 0029 )
24A3	(h)	PARENTHESIZED LATIN SMALL LETTER H ≈ 0028 ( 0068 h 0029 )
24A4	(i)	PARENTHESIZED LATIN SMALL LETTER I ≈ 0028 ( 0069 i 0029 )
24A5	(j)	PARENTHESIZED LATIN SMALL LETTER J ≈ 0028 ( 006A j 0029 )
24A6	(k)	PARENTHESIZED LATIN SMALL LETTER K ≈ 0028 ( 006B k 0029 )
24A7	(l)	PARENTHESIZED LATIN SMALL LETTER L ≈ 0028 ( 006C l 0029 )
24A8	(m)	PARENTHESIZED LATIN SMALL LETTER M ≈ 0028 ( 006D m 0029 )
24A9	(n)	PARENTHESIZED LATIN SMALL LETTER N ≈ 0028 ( 006E n 0029 )
24AA	(o)	PARENTHESIZED LATIN SMALL LETTER O ≈ 0028 ( 006F o 0029 )
24AB	(p)	PARENTHESIZED LATIN SMALL LETTER P ≈ 0028 ( 0070 p 0029 )
24AC	(q)	PARENTHESIZED LATIN SMALL LETTER Q ≈ 0028 ( 0071 q 0029 )
24AD	(r)	PARENTHESIZED LATIN SMALL LETTER R ≈ 0028 ( 0072 r 0029 )
24AE	(s)	PARENTHESIZED LATIN SMALL LETTER S ≈ 0028 ( 0073 s 0029 )
24AF	(t)	PARENTHESIZED LATIN SMALL LETTER T ≈ 0028 ( 0074 t 0029 )
24B0	(u)	PARENTHESIZED LATIN SMALL LETTER U ≈ 0028 ( 0075 u 0029 )
24B1	(v)	PARENTHESIZED LATIN SMALL LETTER V ≈ 0028 ( 0076 v 0029 )
24B2	(w)	PARENTHESIZED LATIN SMALL LETTER W ≈ 0028 ( 0077 w 0029 )
24B3	(x)	PARENTHESIZED LATIN SMALL LETTER X ≈ 0028 ( 0078 x 0029 )
24B4	(y)	PARENTHESIZED LATIN SMALL LETTER Y ≈ 0028 ( 0079 y 0029 )
24B5	(z)	PARENTHESIZED LATIN SMALL LETTER Z ≈ 0028 ( 007A z 0029 )

**Circled Latin letters**

24B6	(A)	CIRCLED LATIN CAPITAL LETTER A ≈ <circle> 0041 A
24B7	(B)	CIRCLED LATIN CAPITAL LETTER B ≈ <circle> 0042 B

24B8	(C)	CIRCLED LATIN CAPITAL LETTER C → 00A9 © copyright sign ≈ <circle> 0043 C
24B9	(D)	CIRCLED LATIN CAPITAL LETTER D ≈ <circle> 0044 D
24BA	(E)	CIRCLED LATIN CAPITAL LETTER E ≈ <circle> 0045 E
24BB	(F)	CIRCLED LATIN CAPITAL LETTER F ≈ <circle> 0046 F
24BC	(G)	CIRCLED LATIN CAPITAL LETTER G ≈ <circle> 0047 G
24BD	(H)	CIRCLED LATIN CAPITAL LETTER H ≈ <circle> 0048 H
24BE	(I)	CIRCLED LATIN CAPITAL LETTER I ≈ <circle> 0049 I
24BF	(J)	CIRCLED LATIN CAPITAL LETTER J ≈ <circle> 004A J
24C0	(K)	CIRCLED LATIN CAPITAL LETTER K ≈ <circle> 004B K
24C1	(L)	CIRCLED LATIN CAPITAL LETTER L ≈ <circle> 004C L
24C2	(M)	CIRCLED LATIN CAPITAL LETTER M → 1F1AD ™ mask work symbol ≈ <circle> 004D M
24C3	(N)	CIRCLED LATIN CAPITAL LETTER N ≈ <circle> 004E N
24C4	(O)	CIRCLED LATIN CAPITAL LETTER O ≈ <circle> 004F O
24C5	(P)	CIRCLED LATIN CAPITAL LETTER P → 2117 ® sound recording copyright ≈ <circle> 0050 P
24C6	(Q)	CIRCLED LATIN CAPITAL LETTER Q ≈ <circle> 0051 Q
24C7	(R)	CIRCLED LATIN CAPITAL LETTER R → 00AE ® registered sign ≈ <circle> 0052 R
24C8	(S)	CIRCLED LATIN CAPITAL LETTER S ≈ <circle> 0053 S
24C9	(T)	CIRCLED LATIN CAPITAL LETTER T ≈ <circle> 0054 T
24CA	(U)	CIRCLED LATIN CAPITAL LETTER U ≈ <circle> 0055 U
24CB	(V)	CIRCLED LATIN CAPITAL LETTER V ≈ <circle> 0056 V
24CC	(W)	CIRCLED LATIN CAPITAL LETTER W ≈ <circle> 0057 W
24CD	(X)	CIRCLED LATIN CAPITAL LETTER X ≈ <circle> 0058 X
24CE	(Y)	CIRCLED LATIN CAPITAL LETTER Y ≈ <circle> 0059 Y
24CF	(Z)	CIRCLED LATIN CAPITAL LETTER Z ≈ <circle> 005A Z
24D0	(a)	CIRCLED LATIN SMALL LETTER A ≈ <circle> 0061 a
24D1	(b)	CIRCLED LATIN SMALL LETTER B ≈ <circle> 0062 b
24D2	(c)	CIRCLED LATIN SMALL LETTER C ≈ <circle> 0063 c
24D3	(d)	CIRCLED LATIN SMALL LETTER D ≈ <circle> 0064 d
24D4	(e)	CIRCLED LATIN SMALL LETTER E ≈ <circle> 0065 e

24D5	Ⓕ	CIRCLED LATIN SMALL LETTER F ≈ <circle> 0066 f
24D6	Ⓖ	CIRCLED LATIN SMALL LETTER G ≈ <circle> 0067 g
24D7	Ⓕ	CIRCLED LATIN SMALL LETTER H ≈ <circle> 0068 h
24D8	Ⓖ	CIRCLED LATIN SMALL LETTER I ≈ <circle> 0069 i
24D9	Ⓖ	CIRCLED LATIN SMALL LETTER J ≈ <circle> 006A j
24DA	Ⓖ	CIRCLED LATIN SMALL LETTER K ≈ <circle> 006B k
24DB	Ⓖ	CIRCLED LATIN SMALL LETTER L ≈ <circle> 006C l
24DC	Ⓖ	CIRCLED LATIN SMALL LETTER M ≈ <circle> 006D m
24DD	Ⓖ	CIRCLED LATIN SMALL LETTER N ≈ <circle> 006E n
24DE	Ⓖ	CIRCLED LATIN SMALL LETTER O ≈ <circle> 006F o
24DF	Ⓖ	CIRCLED LATIN SMALL LETTER P ≈ <circle> 0070 p
24E0	Ⓖ	CIRCLED LATIN SMALL LETTER Q ≈ <circle> 0071 q
24E1	Ⓖ	CIRCLED LATIN SMALL LETTER R ≈ <circle> 0072 r
24E2	Ⓖ	CIRCLED LATIN SMALL LETTER S ≈ <circle> 0073 s
24E3	Ⓖ	CIRCLED LATIN SMALL LETTER T ≈ <circle> 0074 t
24E4	Ⓖ	CIRCLED LATIN SMALL LETTER U ≈ <circle> 0075 u
24E5	Ⓖ	CIRCLED LATIN SMALL LETTER V ≈ <circle> 0076 v
24E6	Ⓖ	CIRCLED LATIN SMALL LETTER W ≈ <circle> 0077 w
24E7	Ⓖ	CIRCLED LATIN SMALL LETTER X ≈ <circle> 0078 x
24E8	Ⓖ	CIRCLED LATIN SMALL LETTER Y ≈ <circle> 0079 y
24E9	Ⓖ	CIRCLED LATIN SMALL LETTER Z ≈ <circle> 007A z

**Additional circled number**

24EA	Ⓖ	CIRCLED DIGIT ZERO ≈ <circle> 0030 0
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**White on black circled numbers**

24EB	Ⓖ	NEGATIVE CIRCLED NUMBER ELEVEN
24EC	Ⓖ	NEGATIVE CIRCLED NUMBER TWELVE
24ED	Ⓖ	NEGATIVE CIRCLED NUMBER THIRTEEN
24EE	Ⓖ	NEGATIVE CIRCLED NUMBER FOURTEEN
24EF	Ⓖ	NEGATIVE CIRCLED NUMBER FIFTEEN
24F0	Ⓖ	NEGATIVE CIRCLED NUMBER SIXTEEN
24F1	Ⓖ	NEGATIVE CIRCLED NUMBER SEVENTEEN
24F2	Ⓖ	NEGATIVE CIRCLED NUMBER EIGHTEEN
24F3	Ⓖ	NEGATIVE CIRCLED NUMBER NINETEEN
24F4	Ⓖ	NEGATIVE CIRCLED NUMBER TWENTY

**Double circled numbers**

24F5	Ⓖ	DOUBLE CIRCLED DIGIT ONE
24F6	Ⓖ	DOUBLE CIRCLED DIGIT TWO
24F7	Ⓖ	DOUBLE CIRCLED DIGIT THREE
24F8	Ⓖ	DOUBLE CIRCLED DIGIT FOUR

24F9	Ⓖ	DOUBLE CIRCLED DIGIT FIVE
24FA	Ⓖ	DOUBLE CIRCLED DIGIT SIX
24FB	Ⓖ	DOUBLE CIRCLED DIGIT SEVEN
24FC	Ⓖ	DOUBLE CIRCLED DIGIT EIGHT
24FD	Ⓖ	DOUBLE CIRCLED DIGIT NINE
24FE	Ⓖ	DOUBLE CIRCLED NUMBER TEN

**Additional white on black circled number**

24FF	Ⓖ	NEGATIVE CIRCLED DIGIT ZERO → 2776 Ⓖ dingbat negative circled digit one
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