

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	(17) 2470	(13) 2480	9. 2490	(e) 24A0	(u) 24B0	(K) 24C0	(a) 24D0	(q) 24E0	16 24F0
1	(2) 2461	(18) 2471	(14) 2481	10. 2491	(f) 24A1	(v) 24B1	(l) 24C1	(b) 24D1	(r) 24E1	17 24F1
2	(3) 2462	(19) 2472	(15) 2482	11. 2492	(g) 24A2	(w) 24B2	(m) 24C2	(c) 24D2	(s) 24E2	18 24F2
3	(4) 2463	(20) 2473	(16) 2483	12. 2493	(h) 24A3	(x) 24B3	(n) 24C3	(d) 24D3	(t) 24E3	19 24F3
4	(5) 2464	(1) 2474	(17) 2484	13. 2494	(i) 24A4	(y) 24B4	(o) 24C4	(e) 24D4	(u) 24E4	20 24F4
5	(6) 2465	(2) 2475	(18) 2485	14. 2495	(j) 24A5	(z) 24B5	(p) 24C5	(f) 24D5	(v) 24E5	(1) 24F5
6	(7) 2466	(3) 2476	(19) 2486	15. 2496	(k) 24A6	(a) 24B6	(q) 24C6	(g) 24D6	(w) 24E6	(2) 24F6
7	(8) 2467	(4) 2477	(20) 2487	16. 2497	(l) 24A7	(b) 24B7	(r) 24C7	(h) 24D7	(x) 24E7	(3) 24F7
8	(9) 2468	(5) 2478	1. 2488	17. 2498	(m) 24A8	(c) 24B8	(s) 24C8	(i) 24D8	(y) 24E8	(4) 24F8
9	(10) 2469	(6) 2479	2. 2489	18. 2499	(n) 24A9	(d) 24B9	(t) 24C9	(j) 24D9	(z) 24E9	(5) 24F9
A	(11) 246A	(7) 247A	3. 248A	19. 249A	(o) 24AA	(e) 24BA	(u) 24CA	(k) 24DA	(o) 24EA	(6) 24FA
B	(12) 246B	(8) 247B	4. 248B	20. 249B	(p) 24AB	(f) 24BB	(v) 24CB	(l) 24DB	(11) 24EB	(7) 24FB
C	(13) 246C	(9) 247C	5. 248C	(a) 249C	(q) 24AC	(g) 24BC	(w) 24CC	(m) 24DC	(12) 24EC	(8) 24FC
D	(14) 246D	(10) 247D	6. 248D	(b) 249D	(r) 24AD	(h) 24BD	(x) 24CD	(n) 24DD	(13) 24ED	(9) 24FD
E	(15) 246E	(11) 247E	7. 248E	(c) 249E	(s) 24AE	(i) 24BE	(y) 24CE	(o) 24DE	(14) 24EE	(10) 24FE
F	(16) 246F	(12) 247F	8. 248F	(d) 249F	(t) 24AF	(j) 24BF	(z) 24CF	(p) 24DF	(15) 24EF	(0) 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 (Ⓐ) CIRCLED LATIN CAPITAL LETTER A
≈ <circle> 0041 A
- 24B7 (Ⓑ) CIRCLED LATIN CAPITAL LETTER B
≈ <circle> 0042 B

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

- 24D5 ⑥ CIRCLED LATIN SMALL LETTER F
 ≈ <circle> 0066 f
- 24D6 ⑦ CIRCLED LATIN SMALL LETTER G
 ≈ <circle> 0067 g
- 24D7 ⑧ CIRCLED LATIN SMALL LETTER H
 ≈ <circle> 0068 h
- 24D8 ⑨ CIRCLED LATIN SMALL LETTER I
 ≈ <circle> 0069 i
- 24D9 ⑩ CIRCLED LATIN SMALL LETTER J
 ≈ <circle> 006A j
- 24DA ⑪ CIRCLED LATIN SMALL LETTER K
 ≈ <circle> 006B k
- 24DB ⑫ CIRCLED LATIN SMALL LETTER L
 ≈ <circle> 006C l
- 24DC ⑬ CIRCLED LATIN SMALL LETTER M
 ≈ <circle> 006D m
- 24DD ⑭ CIRCLED LATIN SMALL LETTER N
 ≈ <circle> 006E n
- 24DE ⑮ CIRCLED LATIN SMALL LETTER O
 ≈ <circle> 006F o
- 24DF ⑯ CIRCLED LATIN SMALL LETTER P
 ≈ <circle> 0070 p
- 24E0 ⑰ CIRCLED LATIN SMALL LETTER Q
 ≈ <circle> 0071 q
- 24E1 ⑱ CIRCLED LATIN SMALL LETTER R
 ≈ <circle> 0072 r
- 24E2 ⑲ CIRCLED LATIN SMALL LETTER S
 ≈ <circle> 0073 s
- 24E3 ⑳ CIRCLED LATIN SMALL LETTER T
 ≈ <circle> 0074 t
- 24E4 ㉑ CIRCLED LATIN SMALL LETTER U
 ≈ <circle> 0075 u
- 24E5 ㉒ CIRCLED LATIN SMALL LETTER V
 ≈ <circle> 0076 v
- 24E6 ㉓ CIRCLED LATIN SMALL LETTER W
 ≈ <circle> 0077 w
- 24E7 ㉔ CIRCLED LATIN SMALL LETTER X
 ≈ <circle> 0078 x
- 24E8 ㉕ CIRCLED LATIN SMALL LETTER Y
 ≈ <circle> 0079 y
- 24E9 ㉖ CIRCLED LATIN SMALL LETTER Z
 ≈ <circle> 007A z

Additional circled number

- 24EA ㉗ CIRCLED DIGIT ZERO
 ≈ <circle> 0030 0

White on black circled numbers

- 24EB ㉘ NEGATIVE CIRCLED NUMBER ELEVEN
- 24EC ㉙ NEGATIVE CIRCLED NUMBER TWELVE
- 24ED ㉚ NEGATIVE CIRCLED NUMBER THIRTEEN
- 24EE ㉛ NEGATIVE CIRCLED NUMBER FOURTEEN
- 24EF ㉜ NEGATIVE CIRCLED NUMBER FIFTEEN
- 24F0 ㉝ NEGATIVE CIRCLED NUMBER SIXTEEN
- 24F1 ㉞ NEGATIVE CIRCLED NUMBER SEVENTEEN
- 24F2 ㉟ NEGATIVE CIRCLED NUMBER EIGHTEEN
- 24F3 ㉟ 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 ㉗ NEGATIVE CIRCLED DIGIT ZERO
 → 2776 ㉗ dingbat negative circled digit one