

Spacing Modifier Letters

Range: 02B0–02FF

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 5.0*.

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

See <http://www.unicode.org/charts/> for access to a complete list of the latest character code charts.
See <http://www.unicode.org/charts/PDF/Unicode-5.0/> for charts showing only the characters added in Unicode 5.0.
See <http://www.unicode.org/Public/5.0.0/charts/> for a complete archived file of character code charts for Unicode 5.0.

Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 5.0 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 5.0 (ISBN 0-321-48091-0), online at <http://www.unicode.org/versions/Unicode5.0.0/>, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, and #34, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available on-line.

See <http://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.

Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts. The particular fonts used in these charts were provided to the Unicode Consortium by a number of different font designers, who own the rights to the fonts.

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

Terms of Use

You may freely use these code charts for personal or internal business uses only. You may not incorporate them either wholly or in part into any product or publication, or otherwise distribute them without express written permission from the Unicode Consortium. However, you may provide links to these charts.

The fonts and font data used in production of these Code Charts may NOT be extracted, or used in any other way in any product or publication, without permission or license granted by the typeface owner(s).

The Unicode Consortium is not liable for errors or omissions in this file or the standard itself. Information on characters added to the Unicode Standard since the publication of the most recent version of the Unicode Standard, as well as on characters currently being considered for addition to the Unicode Standard can be found on the Unicode web site.

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

Copyright © 1991-2006 Unicode, Inc. All rights reserved.

	02B	02C	02D	02E	02F
0	h 02B0	? 02C0	∴ 02D0	Ÿ 02E0	^ 02F0
1	ĥ 02B1	ƒ 02C1	∵ 02D1	l 02E1	< 02F1
2	j 02B2	< 02C2	∶ 02D2	S 02E2	> 02F2
3	r 02B3	> 02C3	◌ 02D3	X 02E3	◦ 02F3
4	Ĳ 02B4	^ 02C4	⊥ 02D4	ƒ 02E4	˘ 02F4
5	Ĳ 02B5	∨ 02C5	⊥ 02D5	└ 02E5	˘ 02F5
6	Ɔ 02B6	^ 02C6	+ 02D6	└ 02E6	˘ 02F6
7	W 02B7	∨ 02C7	- 02D7	└ 02E7	˘ 02F7
8	y 02B8	˘ 02C8	∪ 02D8	└ 02E8	∴ 02F8
9	/ 02B9	- 02C9	• 02D9	└ 02E9	└ 02F9
A	˘ 02BA	/ 02CA	◦ 02DA	└ 02EA	└ 02FA
B	˘ 02BB	˘ 02CB	◌ 02DB	└ 02EB	└ 02FB
C	˘ 02BC	˘ 02CC	˘ 02DC	∨ 02EC	└ 02FC
D	˘ 02BD	- 02CD	˘ 02DD	= 02ED	└ 02FD
E	∶ 02BE	˘ 02CE	˘ 02DE	” 02EE	└ 02FE
F	◌ 02BF	/ 02CF	X 02DF	∨ 02EF	← 02FF

Latin superscript modifier letters

- 02B0 ^h MODIFIER LETTER SMALL H
 • aspiration
 ≈ <super> 0068 h
- 02B1 ^{fi} MODIFIER LETTER SMALL H WITH HOOK
 • breathy voiced, murmured
 → 0266 ^{fi} latin small letter h with hook
 → 0324 ^o combining diaeresis below
 ≈ <super> 0266 ^{fi}
- 02B2 ^j MODIFIER LETTER SMALL J
 • palatalization
 → 0321 ^g combining palatalized hook below
 ≈ <super> 006A ^j
- 02B3 ^r MODIFIER LETTER SMALL R
 ≈ <super> 0072 ^r
- 02B4 ^ɹ MODIFIER LETTER SMALL TURNED R
 → 0279 ^ɹ latin small letter turned r
 ≈ <super> 0279 ^ɹ
- 02B5 ^ɻ MODIFIER LETTER SMALL TURNED R WITH HOOK
 → 027B ^ɻ latin small letter turned r with hook
 ≈ <super> 027B ^ɻ
- 02B6 ^ɿ MODIFIER LETTER SMALL CAPITAL INVERTED R
 • preceding four used for r-coloring or r-offglides
 → 0281 ^ɿ latin letter small capital inverted r
 ≈ <super> 0281 ^ɿ
- 02B7 ^w MODIFIER LETTER SMALL W
 • labialization
 → 032B ^o combining inverted double arch below
 ≈ <super> 0077 ^w
- 02B8 ^y MODIFIER LETTER SMALL Y
 • palatalization
 • common Americanist usage for 02B2 ^j
 ≈ <super> 0079 ^y

Miscellaneous phonetic modifiers

- 02B9 ^ˈ MODIFIER LETTER PRIME
 • primary stress, emphasis
 • transliteration of mjagkij znak (Cyrillic soft sign: palatalization)
 → 0027 ^ˈ apostrophe
 → 00B4 ^ˈ acute accent
 → 02CA ^ˈ modifier letter acute accent
 → 0301 ^ˆ combining acute accent
 → 0374 ^ˈ greek numeral sign
 → 2032 ^ˈ prime
- 02BA ^ˉ MODIFIER LETTER DOUBLE PRIME
 • exaggerated stress, contrastive stress
 • transliteration of tverdyj znak (Cyrillic hard sign: no palatalization)
 → 0022 ^ˉ quotation mark
 → 030B ^ˉ combining double acute accent
 → 2033 ^ˉ double prime
- 02BB ^ˆ MODIFIER LETTER TURNED COMMA
 • typographical alternate for 02BD ^ˆ or 02BF ^ˆ
 • used in Hawai`ian orthography as `okina (glottal stop)
 → 0312 ^ˆ combining turned comma above
 → 07F5 ^ˆ nko low tone apostrophe
 → 2018 ^ˆ left single quotation mark

- 02BC ^ˈ MODIFIER LETTER APOSTROPHE
 = apostrophe
 • glottal stop, glottalization, ejective
 • spacing clone of Greek smooth breathing mark
 • many languages use this as a letter of their alphabets
 • 2019 ^ˈ is the preferred character for a punctuation apostrophe
 → 0027 ^ˈ apostrophe
 → 0313 ^ˆ combining comma above
 → 0315 ^ˆ combining comma above right
 → 055A ^ˈ armenian apostrophe
 → 07F4 ^ˈ nko high tone apostrophe
 → 2019 ^ˈ right single quotation mark
- 02BD ^ˆ MODIFIER LETTER REVERSED COMMA
 • weak aspiration
 • spacing clone of Greek rough breathing mark
 → 0314 ^ˆ combining reversed comma above
 → 0559 ^ˆ armenian modifier letter left half ring
 → 201B ^ˆ single high-reversed-9 quotation mark
- 02BE ^ˈ MODIFIER LETTER RIGHT HALF RING
 • transliteration of Arabic hamza (glottal stop)
 → 055A ^ˈ armenian apostrophe
 → 0621 ^ˆ arabic letter hamza
- 02BF ^ˆ MODIFIER LETTER LEFT HALF RING
 • transliteration of Arabic ain (voiced pharyngeal fricative)
 → 0559 ^ˆ armenian modifier letter left half ring
 → 0639 ^ˆ arabic letter ain
- 02C0 ^ˆ MODIFIER LETTER GLOTTAL STOP
 • ejective or glottalized
 • typographical alternate for 02BC ^ˈ or 02BE ^ˈ
 → 0294 ^ˆ latin letter glottal stop
 → 0309 ^ˆ combining hook above
- 02C1 ^ˆ MODIFIER LETTER REVERSED GLOTTAL STOP
 • typographical alternate for 02BF ^ˆ
 → 0295 ^ˆ latin letter pharyngeal voiced fricative
- 02C2 [<] MODIFIER LETTER LEFT ARROWHEAD
 • fronted articulation
- 02C3 [>] MODIFIER LETTER RIGHT ARROWHEAD
 • backed articulation
- 02C4 [^] MODIFIER LETTER UP ARROWHEAD
 • raised articulation
 → 005E [^] circumflex accent
 → 2303 [^] up arrowhead
- 02C5 ^v MODIFIER LETTER DOWN ARROWHEAD
 • lowered articulation
- 02C6 [^] MODIFIER LETTER CIRCUMFLEX ACCENT
 • rising-falling tone, falling tone, secondary stress, etc.
 → 005E [^] circumflex accent
 → 0302 ^ˆ combining circumflex accent
- 02C7 ^ˇ CARON
 = hacek
 • falling-rising tone
 • Mandarin Chinese third tone
 → 030C ^ˇ combining caron
- 02C8 ^ˈ MODIFIER LETTER VERTICAL LINE
 • primary stress, downstep
 • precedes letter or syllable modified
 → 0027 ^ˈ apostrophe
 → 030D ^ˆ combining vertical line above

02C9	MODIFIER LETTER MACRON
	<ul style="list-style-type: none"> • high level tone • precedes or follows letter or syllable modified • Mandarin Chinese first tone
	→ 00AF $\bar{\text{macron}}$
	→ 0304 $\bar{\text{combining macron}}$
02CA	MODIFIER LETTER ACUTE ACCENT
	<ul style="list-style-type: none"> • high-rising tone (IPA), high tone, primary stress • Mandarin Chinese second tone
	→ 00B4 $\acute{\text{acute accent}}$
	→ 02B9 \prime modifier letter prime
	→ 0301 $\acute{\text{combining acute accent}}$
	→ 0374 \prime greek numeral sign
	→ 055B \prime armenian emphasis mark
02CB	MODIFIER LETTER GRAVE ACCENT
	<ul style="list-style-type: none"> • high-falling tone (IPA), low tone, secondary or tertiary stress • Mandarin Chinese fourth tone
	→ 0060 $\grave{\text{grave accent}}$
	→ 0300 $\grave{\text{combining grave accent}}$
	→ 055D $\grave{\text{armenian comma}}$
02CC	MODIFIER LETTER LOW VERTICAL LINE
	<ul style="list-style-type: none"> • secondary stress • precedes letter or syllable modified
	→ 0329 $\underset{\sim}{\text{combining vertical line below}}$
02CD	MODIFIER LETTER LOW MACRON
	<ul style="list-style-type: none"> • low level tone
	→ 005F $\underline{\text{low line}}$
	→ 0331 $\underset{\sim}{\text{combining macron below}}$
02CE	MODIFIER LETTER LOW GRAVE ACCENT
	• low-falling tone
02CF	MODIFIER LETTER LOW ACUTE ACCENT
	<ul style="list-style-type: none"> • low-rising tone
	→ 0375 \prime greek lower numeral sign
02D0	MODIFIER LETTER TRIANGULAR COLON
	<ul style="list-style-type: none"> • length mark
	→ 003A : colon
02D1	MODIFIER LETTER HALF TRIANGULAR COLON
	<ul style="list-style-type: none"> • half-length mark
	→ 00B7 \cdot middle dot
02D2	MODIFIER LETTER CENTRED RIGHT HALF RING
	<ul style="list-style-type: none"> • more rounded articulation
02D3	MODIFIER LETTER CENTRED LEFT HALF RING
	<ul style="list-style-type: none"> • less rounded articulation
02D4	MODIFIER LETTER UP TACK
	<ul style="list-style-type: none"> • vowel raising or closing
	→ 031D $\underset{\text{combining up tack below}}$
	→ 0323 $\underset{\text{combining dot below}}$
02D5	MODIFIER LETTER DOWN TACK
	<ul style="list-style-type: none"> • vowel lowering or opening
	→ 031C $\underset{\text{combining left half ring below}}$
	→ 031E $\underset{\text{combining down tack below}}$
02D6	MODIFIER LETTER PLUS SIGN
	<ul style="list-style-type: none"> • advanced or fronted articulation
	→ 031F $\underset{\text{combining plus sign below}}$
02D7	MODIFIER LETTER MINUS SIGN
	<ul style="list-style-type: none"> • retracted or backed articulation • glyph may have small end-serifs
	→ 0320 $\underset{\text{combining minus sign below}}$
	→ 2212 -- minus sign

Spacing clones of diacritics

02D8	BREVE
	→ 0306 ̆ combining breve
	≈ 0020 ̆ 0306 ̆
02D9	DOT ABOVE
	<ul style="list-style-type: none"> • Mandarin Chinese fifth tone (light or neutral)
	→ 0307 $\text{̇ combining dot above}$
	≈ 0020 ̇ 0307 ̇
02DA	RING ABOVE
	→ 00B0 ° degree sign
	→ 030A $\text{̈́ combining ring above}$
	≈ 0020 ̈́ 030A ̈́
02DB	OGONEK
	→ 0328 $\text{̇ combining ogonek}$
	≈ 0020 ̇ 0328 ̇
02DC	SMALL TILDE
	→ 007E ~ tilde
	→ 0303 ̃ combining tilde
	→ 223C ~ tilde operator
	≈ 0020 ̃ 0303 ̃
02DD	DOUBLE ACUTE ACCENT
	→ 030B $\text{̈́ combining double acute accent}$
	≈ 0020 ̈́ 030B ̈́

Additions based on 1989 IPA

02DE	MODIFIER LETTER RHOTIC HOOK
	<ul style="list-style-type: none"> • rhotacization in vowel • often ligated: 025A $\text{̆} = 0259 \text{̆} + 02DE \text{̆}$; 025D $\text{̆} = 025C \text{̆} + 02DE \text{̆}$
02DF	MODIFIER LETTER CROSS ACCENT
	• Swedish grave accent
02E0	MODIFIER LETTER SMALL GAMMA
	<ul style="list-style-type: none"> • these modifier letters are occasionally used in transcription of affricates
	≈ <super> 0263 ̆
02E1	MODIFIER LETTER SMALL L
	≈ <super> 006C l
02E2	MODIFIER LETTER SMALL S
	≈ <super> 0073 s
02E3	MODIFIER LETTER SMALL X
	≈ <super> 0078 x
02E4	MODIFIER LETTER SMALL REVERSED GLOTTAL STOP
	≈ <super> 0295 ̆

Tone letters

02E5	MODIFIER LETTER EXTRA-HIGH TONE BAR
02E6	MODIFIER LETTER HIGH TONE BAR
02E7	MODIFIER LETTER MID TONE BAR
02E8	MODIFIER LETTER LOW TONE BAR
02E9	MODIFIER LETTER EXTRA-LOW TONE BAR

Extended Bopomofo tone marks

02EA	MODIFIER LETTER YIN DEPARTING TONE MARK
02EB	MODIFIER LETTER YANG DEPARTING TONE MARK

IPA modifiers

02EC	MODIFIER LETTER VOICING
02ED	MODIFIER LETTER UNASPIRATED

Other modifier letter

02EE	MODIFIER LETTER DOUBLE APOSTROPHE
	<ul style="list-style-type: none"> • Nenets

UPA modifiers

02EF	∨	MODIFIER LETTER LOW DOWN ARROWHEAD
02F0	^	MODIFIER LETTER LOW UP ARROWHEAD
02F1	◀	MODIFIER LETTER LOW LEFT ARROWHEAD
02F2	▶	MODIFIER LETTER LOW RIGHT ARROWHEAD
02F3	◦	MODIFIER LETTER LOW RING
02F4	˘	MODIFIER LETTER MIDDLE GRAVE ACCENT
02F5	˝	MODIFIER LETTER MIDDLE DOUBLE GRAVE ACCENT
02F6	ˆ	MODIFIER LETTER MIDDLE DOUBLE ACUTE ACCENT
02F7	˜	MODIFIER LETTER LOW TILDE
02F8	ː	MODIFIER LETTER RAISED COLON
02F9	ˆ	MODIFIER LETTER BEGIN HIGH TONE
02FA	˘	MODIFIER LETTER END HIGH TONE
02FB	ˆ	MODIFIER LETTER BEGIN LOW TONE
02FC	˘	MODIFIER LETTER END LOW TONE
02FD	┌	MODIFIER LETTER SHELF
02FE	└	MODIFIER LETTER OPEN SHELF
02FF	←	MODIFIER LETTER LOW LEFT ARROW