

## Spacing Modifier Letters

Range: 02B0–02FF

### The Unicode Standard, Version 12.0

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 12.0*

Characters in this chart that are new for The Unicode Standard, Version 12.0 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/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-12.0/> for charts showing only the characters added in Unicode 12.0. See <http://www.unicode.org/Public/12.0.0/charts/> for a complete archived file of character code charts for Unicode 12.0.

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These charts are provided as the online reference to the character contents of the Unicode Standard, Version 12.0 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 12.0, online at <http://www.unicode.org/versions/Unicode12.0.0/>, 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 <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.

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	02B	02C	02D	02E	02F
0	h 02B0	ʔ 02C0	˘ 02D0	Ÿ 02E0	ˆ 02F0
1	ħ 02B1	ƒ 02C1	˙ 02D1	l 02E1	< 02F1
2	j 02B2	< 02C2	˘ 02D2	S 02E2	> 02F2
3	r 02B3	> 02C3	˘ 02D3	X 02E3	o 02F3
4	Ĳ 02B4	ˆ 02C4	⊥ 02D4	Ϛ 02E4	˘ 02F4
5	Ĵ 02B5	∨ 02C5	⊥ 02D5	⌋ 02E5	˘ 02F5
6	Ɓ 02B6	ˆ 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	o 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	× 02DF	˘ 02EF	← 02FF

**Latin superscript modifier letters**

See also superscript Latin letters in the Phonetic Extensions block starting at 1D00.

→ 2071 <sup>ˆ</sup> superscript latin small letter i

→ 207F <sup>ˆ</sup> superscript latin small letter n

02B0 <sup>h</sup> **MODIFIER LETTER SMALL H**

- aspiration

≈ <super> 0068 <sup>h</sup>

02B1 <sup>ɦ</sup> **MODIFIER LETTER SMALL H WITH HOOK**

- breathy voiced, murmured

→ 0266 <sup>ɦ</sup> latin small letter h with hook

→ 0324 <sup>◌̣</sup> combining diaeresis below

≈ <super> 0266 <sup>ɦ</sup>

02B2 <sup>j</sup> **MODIFIER LETTER SMALL J**

- palatalization

→ 0321 <sup>◌̣</sup> combining palatalized hook below

≈ <super> 006A <sup>j</sup>

02B3 <sup>˚</sup> **MODIFIER LETTER SMALL R**

≈ <super> 0072 <sup>˚</sup>

02B4 <sup>ɹ</sup> **MODIFIER LETTER SMALL TURNED R**

→ 0279 <sup>ɹ</sup> latin small letter turned r

≈ <super> 0279 <sup>ɹ</sup>

02B5 <sup>ɹ̣</sup> **MODIFIER LETTER SMALL TURNED R WITH HOOK**

→ 027B <sup>ɹ̣</sup> latin small letter turned r with hook

≈ <super> 027B <sup>ɹ̣</sup>

02B6 <sup>ɻ</sup> **MODIFIER LETTER SMALL CAPITAL INVERTED R**

- preceding four used for r-coloring or r-offglides

→ 0281 <sup>ɻ</sup> latin letter small capital inverted r

≈ <super> 0281 <sup>ɻ</sup>

02B7 <sup>w</sup> **MODIFIER LETTER SMALL W**

- labialization

→ 032B <sup>◌̣</sup> combining inverted double arch below

≈ <super> 0077 <sup>w</sup>

02B8 <sup>y</sup> **MODIFIER LETTER SMALL Y**

- palatalization

- common Americanist usage for 02B2 <sup>j</sup>

≈ <super> 0079 <sup>y</sup>

**Miscellaneous phonetic modifiers**

02B9 <sup>ˈ</sup> **MODIFIER LETTER PRIME**

- primary stress, emphasis
- transliteration of mĵagkij znak (Cyrillic soft sign: palatalization)
- transliteration of Hebrew gersh

→ 0027 <sup>ˈ</sup> apostrophe

→ 00B4 <sup>ˈ</sup> acute accent

→ 02CA <sup>ˈ</sup> modifier letter acute accent

→ 0301 <sup>ˈ</sup> combining acute accent

→ 0374 <sup>ˈ</sup> greek numeral sign

→ 05F3 <sup>ˈ</sup> hebrew punctuation gersh

→ 2032 <sup>ˈ</sup> prime

02BA <sup>ˆ</sup> **MODIFIER LETTER DOUBLE PRIME**

- exaggerated stress, contrastive stress

- transliteration of tverdyj znak (Cyrillic hard sign: no palatalization)

→ 0022 <sup>ˆ</sup> quotation mark

→ 030B <sup>ˆ</sup> combining double acute accent

→ 2033 <sup>ˆ</sup> double prime

02BB <sup>ˆ</sup> **MODIFIER LETTER TURNED COMMA**

- typographical alternate for 02BD <sup>ˆ</sup> or 02BF <sup>ˆ</sup>
- used in some Polynesian orthographies for glottal stop

- Hawai'ian: 'okina

- Tongan: fakau'a

→ 0312 <sup>ˆ</sup> combining turned comma above

→ 07F5 <sup>ˆ</sup> nko low tone apostrophe

→ 2018 <sup>ˆ</sup> left single quotation mark

02BC <sup>ˆ</sup> **MODIFIER LETTER APOSTROPHE**

= apostrophe

- glottal stop, glottalization, ejective

- many languages use this as a letter of their alphabets

- used as a tone marker in Bodo, Dogri, and Maithili

- 2019 <sup>ˆ</sup> is the preferred character for a punctuation apostrophe

→ 0027 <sup>ˆ</sup> apostrophe

→ 0313 <sup>ˆ</sup> combining comma above

→ 0315 <sup>ˆ</sup> combining comma above right

→ 055A <sup>ˆ</sup> armenian apostrophe

→ 07F4 <sup>ˆ</sup> nko high tone apostrophe

→ 1FBF <sup>ˆ</sup> greek psili

→ 2019 <sup>ˆ</sup> right single quotation mark

02BD <sup>ˆ</sup> **MODIFIER LETTER REVERSED COMMA**

- weak aspiration

→ 0314 <sup>ˆ</sup> combining reversed comma above

→ 0559 <sup>ˆ</sup> armenian modifier letter left half ring

→ 1FFE <sup>ˆ</sup> greek dasia

→ 201B <sup>ˆ</sup> single high-reversed-9 quotation mark

02BE <sup>ˆ</sup> **MODIFIER LETTER RIGHT HALF RING**

- transliteration of Arabic hamza (glottal stop)

- transliteration of Hebrew alef

→ 055A <sup>ˆ</sup> armenian apostrophe

→ 05D0 <sup>ˆ</sup> hebrew letter alef

→ 0621 <sup>ˆ</sup> arabic letter hamza

02BF <sup>ˆ</sup> **MODIFIER LETTER LEFT HALF RING**

- transliteration of Arabic ain (voiced pharyngeal fricative)

- transliteration of Hebrew ayin

→ 0559 <sup>ˆ</sup> armenian modifier letter left half ring

→ 05E2 <sup>ˆ</sup> hebrew letter ayin

→ 0639 <sup>ˆ</sup> arabic letter ain

02C0 <sup>ˆ</sup> **MODIFIER LETTER GLOTTAL STOP**

- ejective or glottalized

- typographical alternate for 02BC <sup>ˆ</sup> or 02BE <sup>ˆ</sup>

→ 0294 <sup>ˆ</sup> latin letter glottal stop

→ 0309 <sup>ˆ</sup> combining hook above

02C1 <sup>ˆ</sup> **MODIFIER LETTER REVERSED GLOTTAL STOP**

- typographical alternate for 02BF <sup>ˆ</sup>

→ 0295 <sup>ˆ</sup> latin letter pharyngeal voiced fricative

02C2 <sup>ˆ</sup> **MODIFIER LETTER LEFT ARROWHEAD**

- fronted articulation

02C3 <sup>ˆ</sup> **MODIFIER LETTER RIGHT ARROWHEAD**

- backed articulation

02C4 <sup>ˆ</sup> **MODIFIER LETTER UP ARROWHEAD**

- raised articulation

→ 005E <sup>ˆ</sup> circumflex accent

→ 2303 <sup>ˆ</sup> up arrowhead

02C5 <sup>ˆ</sup> **MODIFIER LETTER DOWN ARROWHEAD**

- lowered articulation

02C6	^	<b>MODIFIER LETTER CIRCUMFLEX ACCENT</b>
		<ul style="list-style-type: none"> <li>• rising-falling tone, falling tone, secondary stress, etc.</li> </ul> → 005E <sup>^</sup> circumflex accent → 0302 <sup>◌̂</sup> combining circumflex accent → A788 <sub>˘</sub> modifier letter low circumflex accent
02C7	ˇ	<b>CARON</b>
		= hacek <ul style="list-style-type: none"> <li>• falling-rising tone</li> <li>• Mandarin Chinese third tone</li> </ul> → 030C <sup>◌̃</sup> combining caron
02C8	ˊ	<b>MODIFIER LETTER VERTICAL LINE</b>
		<ul style="list-style-type: none"> <li>• primary stress, downstep</li> <li>• precedes letter or syllable modified</li> </ul> → 0027 <sup>ˊ</sup> apostrophe → 030D <sup>◌̅</sup> combining vertical line above
02C9	ˉ	<b>MODIFIER LETTER MACRON</b>
		<ul style="list-style-type: none"> <li>• high level tone</li> <li>• precedes or follows letter or syllable modified</li> <li>• Mandarin Chinese first tone</li> </ul> → 00AF <sup>ˉ</sup> macron → 0304 <sup>◌̄</sup> combining macron
02CA	ˋ	<b>MODIFIER LETTER ACUTE ACCENT</b>
		<ul style="list-style-type: none"> <li>• high-rising tone (IPA), high tone, primary stress</li> <li>• Mandarin Chinese second tone</li> </ul> → 00B4 <sup>ˋ</sup> acute accent → 02B9 <sup>ˊ</sup> modifier letter prime → 0301 <sup>◌̇</sup> combining acute accent → 0374 <sup>ˊ</sup> greek numeral sign → 055B <sup>ˊ</sup> armenian emphasis mark
02CB	ˋ	<b>MODIFIER LETTER GRAVE ACCENT</b>
		<ul style="list-style-type: none"> <li>• high-falling tone (IPA), low tone, secondary or tertiary stress</li> <li>• Mandarin Chinese fourth tone</li> </ul> → 0060 <sup>ˋ</sup> grave accent → 0300 <sup>◌̈́</sup> combining grave accent → 055D <sup>ˋ</sup> armenian comma
02CC	ˊ	<b>MODIFIER LETTER LOW VERTICAL LINE</b>
		<ul style="list-style-type: none"> <li>• secondary stress</li> <li>• precedes letter or syllable modified</li> </ul> → 0329 <sup>◌̅ˊ</sup> combining vertical line below
02CD	˘	<b>MODIFIER LETTER LOW MACRON</b>
		<ul style="list-style-type: none"> <li>• low level tone</li> </ul> → 005F <sup>˘</sup> low line → 0331 <sup>◌̘</sup> combining macron below
02CE	ˋ	<b>MODIFIER LETTER LOW GRAVE ACCENT</b>
		<ul style="list-style-type: none"> <li>• low-falling tone</li> </ul>
02CF	ˋ	<b>MODIFIER LETTER LOW ACUTE ACCENT</b>
		<ul style="list-style-type: none"> <li>• low-rising tone</li> </ul> → 0375 <sup>ˋ</sup> greek lower numeral sign
02D0	:	<b>MODIFIER LETTER TRIANGULAR COLON</b>
		<ul style="list-style-type: none"> <li>• length mark</li> </ul> → 003A <sup>:</sup> colon
02D1	·	<b>MODIFIER LETTER HALF TRIANGULAR COLON</b>
		<ul style="list-style-type: none"> <li>• half-length mark</li> </ul> → 00B7 <sup>·</sup> middle dot
02D2	◌̥	<b>MODIFIER LETTER CENTRED RIGHT HALF RING</b>
		<ul style="list-style-type: none"> <li>• more rounded articulation</li> </ul>
02D3	◌̦	<b>MODIFIER LETTER CENTRED LEFT HALF RING</b>
		<ul style="list-style-type: none"> <li>• less rounded articulation</li> </ul>

02D4	◌̥	<b>MODIFIER LETTER UP TACK</b>
		<ul style="list-style-type: none"> <li>• vowel raising or closing</li> </ul> → 031D <sup>◌̥</sup> combining up tack below → 0323 <sup>◌̥</sup> combining dot below
02D5	◌̦	<b>MODIFIER LETTER DOWN TACK</b>
		<ul style="list-style-type: none"> <li>• vowel lowering or opening</li> </ul> → 031C <sup>◌̦</sup> combining left half ring below → 031E <sup>◌̦</sup> combining down tack below
02D6	◌̧	<b>MODIFIER LETTER PLUS SIGN</b>
		<ul style="list-style-type: none"> <li>• advanced or fronted articulation</li> </ul> → 031F <sup>◌̧</sup> combining plus sign below
02D7	◌̨	<b>MODIFIER LETTER MINUS SIGN</b>
		<ul style="list-style-type: none"> <li>• retracted or backed articulation</li> <li>• glyph may have small end-serifs</li> </ul> → 0320 <sup>◌̨</sup> combining minus sign below → 2212 <sup>-</sup> minus sign

**Spacing clones of diacritics**

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

**Additions based on 1989 IPA**

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

**Tone letters**

02E5	◌̕	<b>MODIFIER LETTER EXTRA-HIGH TONE BAR</b>
02E6	◌̖	<b>MODIFIER LETTER HIGH TONE BAR</b>

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  
 • 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  
 → 0325 ◌ combining ring below  
 02F4 † MODIFIER LETTER MIDDLE GRAVE ACCENT  
 02F5 † MODIFIER LETTER MIDDLE DOUBLE GRAVE ACCENT  
 02F6 † MODIFIER LETTER MIDDLE DOUBLE ACUTE ACCENT  
 02F7 † MODIFIER LETTER LOW TILDE  
 02F8 † MODIFIER LETTER RAISED COLON  
 02F9 † MODIFIER LETTER BEGIN HIGH TONE  
 02FA † MODIFIER LETTER END HIGH TONE  
 02FB † 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