Hebrew alphabet

The **Hebrew alphabet** (Hebrew: אֵלֶף־בֵּית עְבְרִי, [a] Alefbet ivri), known variously by scholars as the **Ktav Ashuri**, **Jewish script**, **square script** and **block script**, is traditionally an <u>abjad</u> script used in the writing of the <u>Hebrew language</u> and other <u>Jewish languages</u>, most notably <u>Yiddish</u>, <u>Ladino</u>, <u>Judeo-Arabic</u>, and <u>Judeo-Persian</u>. In modern Hebrew, vowels are increasingly introduced. It is also used informally in Israel to write <u>Levantine Arabic</u>, especially among <u>Druze</u>. [2][3][4] It is an offshoot of the <u>Imperial Aramaic alphabet</u>, which flourished during the <u>Achaemenid Empire</u> and which itself derives from the <u>Phoenician alphabet</u>.

Hebrew alphabet

אָלֶפְבֵּית עִבְרִי

Script type Abjad

Time period 2nd-1st century

BCE to present^[1]

Direction Right-to-left script

Official script <u>Israel</u>

Languages <u>Hebrew</u>, <u>Yiddish</u>,

Ladino, Mozarabic,

Levantine Arabic,

Aramaic, other

Jewish languages

Related scripts

Parent systems

Egyptian hieroglyphs

• Proto-Sinaitic script

Phoenician alphabet

> Aramaic alphabet

> > Hebrew alphabet

Child systems

Yiddish alphabet

Square Maalouli

<u>alphabet</u>

Sister systems

<u>Nabataean</u>

<u>Syriac</u>

<u>Palmyrene</u>

Edessan

Hatran

Elymaic

Mandaic

<u>Pahlavi</u>

Kharosthi

ISO 15924

<u>ISO 15924</u> Hebr (125),

Hebrew

Unicode

Unicode alias Hebrew

Unicode range U+0590 to U+05FF

(https://www.unico

de.org/charts/PD

F/U0590.pdf)

Hebrew,

U+FB1D to U+FB4F

(https://www.unico

de.org/charts/PD

F/UFB00.pdf)

Alphabetic

Presentation Forms

This article contains <u>Hebrew text</u>.

Without proper <u>rendering support</u>,

you may see <u>question marks</u>,

boxes, or other symbols instead

of Hebrew letters.

שלום

Historically, two separate abjad scripts have been used to write Hebrew. The original, old Hebrew script, known as the <u>paleo-Hebrew alphabet</u>, has been largely preserved in a variant form as the <u>Samaritan alphabet</u>. The present "Jewish script" or "square script", on the contrary, is a stylized form of the <u>Aramaic alphabet</u> and was technically known by Jewish sages as <u>Ashurit</u> (lit. "Assyrian script"), since its origins were alleged to be from <u>Assyria</u>. [5]

Various "styles" (in current terms, "fonts") of representation of the Jewish script letters described in this article also exist, including a variety of cursive Hebrew styles. In the remainder of this article, the term "Hebrew alphabet" refers to the square script unless otherwise indicated.

The Hebrew alphabet has 22 letters. It does not have <u>case</u>. Five letters have different forms when used at the end of a word. Hebrew is <u>written from right to left</u>. Originally, the alphabet was an abjad consisting only of <u>consonants</u>, but is now considered an "<u>impure abjad</u>". As with other abjads, such as the <u>Arabic alphabet</u>, during its centurieslong use scribes devised means of indicating <u>vowel</u> sounds by separate vowel points, known in Hebrew as <u>niqqud</u>. In both biblical and rabbinic Hebrew, the letters <u>Ninit</u> can also function as <u>matres lectionis</u>, which is when certain consonants are used to indicate vowels. There is a trend in <u>Modern Hebrew</u> towards the use of <u>matres lectionis</u> to indicate vowels that have traditionally gone unwritten, a practice known as "full spelling".

The <u>Yiddish alphabet</u>, a modified version of the Hebrew alphabet used to write Yiddish, is a true alphabet, with all vowels rendered in the spelling, except in the case of inherited Hebrew words, which typically retain their Hebrew consonant-only spellings.

The Arabic and Hebrew alphabets have similarities because they are both derived from the Aramaic alphabet, which in turn derives either from <u>paleo-Hebrew</u> or the <u>Phoenician alphabet</u>, both being slight regional variations of the <u>Proto-Canaanite alphabet</u> used in ancient times to write the various <u>Canaanite languages</u> (including Hebrew, Moabite, Phoenician, Punic, et cetera).

History



Paleo-Hebrew alphabet containing 22 letters, period, geresh, and gershayim



The <u>Aleppo Codex</u>, a tenth century <u>Masoretic Text</u> of the <u>Hebrew Bible</u>. <u>Book of Joshua</u> 1:1

The <u>Canaanite</u> dialects were largely indistinguishable before around 1000 BCE. [6] An example of related early <u>Semitic inscriptions</u> from the area include the tenth-century <u>Gezer calendar</u> over which scholars are divided as to whether its language is <u>Hebrew or Phoenician</u> and whether the script is <u>Proto-Canaanite</u> or <u>paleo-Hebrew</u>. [7][8][9][10][11][12]

A Hebrew variant of the <u>Proto-Canaanite alphabet</u>, called the <u>paleo-Hebrew alphabet</u> by scholars, began to emerge around 800 BCE. [13] An example is the <u>Siloam</u> inscription (c. 700 BCE). [14]

The paleo-Hebrew alphabet was used in the ancient kingdoms of <u>Israel</u> and <u>Judah</u>. Following the <u>Babylonian exile</u> of the Kingdom of Judah in the 6th century BCE, <u>Jews</u> began using a form of the <u>Imperial Aramaic alphabet</u>, another offshoot of the same family of scripts, which flourished during the <u>Achaemenid Empire</u>. The <u>Samaritans</u>, who remained in the Land of Israel, continued to use the paleo-Hebrew alphabet. During the 3rd century BCE, Jews began to use a stylized, "square" form of the <u>Aramaic alphabet</u> that was used by the <u>Persian Empire</u> (and which in turn had been adopted from the <u>Assyrians</u>), while the Samaritans continued to use a form of the paleo-Hebrew script called the <u>Samaritan alphabet</u>. After the fall of the Persian Empire in 330 BCE, Jews used both scripts before settling on the square Assyrian form.

The square Hebrew alphabet was later adapted and used for writing languages of the <u>Jewish diaspora</u> – such as <u>Karaim</u>, the <u>Judeo-Arabic languages</u>, Judaeo-Spanish, and Yiddish. The Hebrew alphabet continued in use for scholarly writing in Hebrew and came again into everyday use with the rebirth of the Hebrew language as a spoken language in the 18th and 19th centuries, especially in <u>Israel</u>.

Description

General

In the traditional form, the Hebrew alphabet is an <u>abjad</u> consisting only of <u>consonants</u>, <u>written from right to left</u>. It has 22 letters, five of which use different forms at the end of a word.

Vowels

In the traditional form, vowels are indicated by the weak <u>consonants Aleph</u> (\aleph), <u>He</u> (\sqcap), <u>Waw/Vav</u> (\square), or <u>Yodh</u> (\square) serving as vowel letters, or <u>matres lectionis</u>: the letter is combined with a previous vowel and becomes silent, or by imitation of such cases in the spelling of other forms. Also, a system of vowel points to indicate vowels (diacritics), called <u>niqqud</u>, was developed. In modern forms of the alphabet, as in the case of <u>Yiddish</u> and to some extent <u>Modern Hebrew</u>, <u>vowels</u> may be indicated. Today, the trend is toward <u>full spelling</u> with the weak letters acting as true vowels.

When used to <u>write Yiddish</u>, vowels are indicated, using certain letters, either with niqqud diacritics (e.g. אָ or !) or without (e.g. ν or ν), except for Hebrew words, which in Yiddish are written in their Hebrew spelling.

To preserve the proper vowel sounds, scholars developed several different sets of vocalization and diacritical symbols called <code>nequdot</code> (DITIP1, literally "points"). One of these, the <code>Tiberian system</code>, eventually prevailed. Aaron ben Moses ben Asher, and his family for several generations, are credited for refining and maintaining the system. These points are normally used only for special purposes, such as <code>Biblical</code> books intended for study, in <code>poetry</code> or when teaching the language to children. The Tiberian system also includes a set of <code>cantillation marks</code>, called <code>trope</code> or <code>te'amim</code>, used to indicate how scriptural passages should be chanted in synagogue recitations of scripture (although these marks do not appear in the scrolls). In everyday writing of modern Hebrew, <code>niqqud</code> are absent; however, patterns of how words are derived from <code>Hebrew roots</code> (called <code>shorashim</code> or "triliterals") allow Hebrew speakers to determine the vowel-structure of a given word from its consonants based on the word's context and part of speech.

Alphabet

Unlike the Paleo-Hebrew writing script, the modern Hebrew script has five <u>letters</u> that have special <u>final forms</u>, called **sofit** (<u>Hebrew</u>: סופית, meaning in this context "final" or "ending") form, used only at the end of a word, somewhat as in the <u>Greek</u> or in the <u>Arabic</u> and <u>Mandaic alphabets</u>. These are shown below the normal form in the following table (letter names are <u>Unicode</u> standard [16][17]). Although Hebrew is read and written from right to left, the following table shows the letters in order from left to right:

<u>Alef</u>	<u>Bet</u>	<u>Gimel</u>	<u>Dalet</u>	<u>He</u>	Waw/Vav	<u>Zayin</u>	<u>Chet</u>	<u>Tet</u>	<u>Yod</u>	<u>Kaf</u>
M		٦.	ו ה ד ג		נו כו ד		רו		כ	
א		Λ				ı	11	U	_	7
Lamed	<u>Mem</u>	<u>Nun</u>	Samech	<u>Ayin</u>	<u>Pe</u>	<u>Tsadi</u>	<u>Qof</u>	<u>Resh</u>	<u>Shin</u>	<u>Tav</u>
5	מ	ב	D	ע	9	Z	ה	_	ש	ח
フ	ם		U	لا	7	Υ				JI

Order

As far back as the 13th century BCE, ancient Hebrew <u>abecedaries</u> indicate a slightly different ordering of the alphabet. The <u>Zayit Stone</u>, [18] Izbet Sartah <u>ostracon</u>, [19] and one <u>inscription from Kuntillet Ajrud</u> each contain a number of reverse letter orders; such as *vav-he*, *chet-zayin*, *pe-ayin*, etc.

A reversal to *pe-ayin* can be clearly seen in the <u>Book of Lamentations</u>, whose first four chapters are ordered as alphabetical acrostics. While the first chapter has the now usual *ayin-pe* ordering, the second, third and fourth chapters exhibit *pe-ayin*. The fact that these chapters follows the pre-exilic *pe-ayin* order is evidence for them being written shortly after the events described, rather than being later, post-exilic compositions.

Pronunciation

Alphabet

The descriptions that follow are based on the pronunciation of modern standard Israeli Hebrew.

letter	<u>IPA</u>	<u>Unicode^{[16][17]}</u>	Hebrew ^[25]	Modern Hebrew pronunciation	Yiddish / Ashkenazi pronunciation	<u>Sephardi</u> pronunciation	Yemenite pronunciation	
א	<u>Ø</u> ,	<u>Alef</u>	אָלֶף	/alɛf/	/ʔaləf/	/ʔalɛf/	/ˈɔlæf/	\ i \ (
Ŀ	[<u>b</u>]	_	בֵּית	/bet/	/bɛɪs/, /bɛɪz/	/bɛt/	/beθ/	 <u> </u>
ב	[<u>v</u>]	<u>Bet</u>	בֵית	/vet/	/veis/, /veiz/	/vɛt/	/vęθ/	\ 1
λ	[g]		ּגִּימֵל			/ˈgimɛl/	/ azımeı/	(
λ	[γ]	<u>Gimel</u>	גִּימֵל	/ˈgimel/	/ˈgɪməl/	/ˈɣɪmɛl/	/ˈɣime̞l/	(
ন	<u>[d]</u>	Dolot	דּלֶת	/'dalɛt/,	/ˈdaləd/,	/ˈdalɛt/	/ˈdɔle̞θ/	(
Т	<u>[ð]</u>	<u>Dalet</u>	דָלֶת	/ˈdalɛd/	/ˈdaləs/	/ˈðalɛt/	/ˈðɔle̞θ/	1
ה	[<u>h</u>]	<u>He</u>	הֵא	/he/, /hej/	/hɛɪ/	/he/	/hę/	ı

I	[<u>v</u>]	<u>Vav</u>	IĮ	/vav/	/vcv/	/vav/	/wcw/	7
7	[<u>z</u>]	<u>Zayin</u>	זַיִּן	/ˈzajin/, /ˈza.in/	/ˈzajɪn/	/ˈzajin/	/ˈzajin/	7
Π	[x]	<u>Chet</u>	חֵית	/χet/	/χεs/	/ħɛt/	/ħęθ/	1
υ	<u>[t]</u>	<u>Tet</u>	טֵית	/tet/	/tɛs/	/tɛt/	/t ^c ęθ/	1
I	[j]	<u>Yod</u>	יוֹד	/jod/, /jud/	/jʊd/	/jud/	/jœð/	}
Э	<u>[k]</u>		קַף	/kaf/	/kɔf/	/kaf/	/kaf/	I
C	[χ]	Vof	ַרף	/χaf/	/ λ c λ /	/χaf/	/xaf/	(
J	<u>[k]</u>	<u>Kaf</u>	כַּף סוֹפִית	/kaf sofit/	/ˈlaŋgə kɔf/	/kaf sofit/	/kaf sœˈfiθ/	' I
7	<u>[x]</u> ~		כַף סוֹפִית	/χaf sofit/	/ˈlaŋgə χɔf/	/χaf sofit/	/xaf sœˈfiθ/	, (
5	[]]	<u>Lamed</u>	לָמֶד	/ˈlamɛd/	/ˈlaməd/	/ˈlamɛd/	/ˈlɔme̞ð/	I

מ			מֵם	/mem/	/mɛm/	/mɛm/	/mem/	ı
ם	<u>[m]</u>	<u>Mem</u>	_{/mem} סוֹפִית sofit/		/ˈʃlɔs mɛm/	/mɛm sofit/	/mẹm sœˈfiθ/	<u>1</u>
נ			בוּן	/nun/	/nʊn/	/nun/	/nun/	ı
I	<u>[n]</u>	<u>Nun</u>	נוּן סוֹפָית	/nun sofit/	/ˈlaŋgə nʊn/	/nun sofit/	/nun sœˈfiθ/	<u>!</u>
D	[<u>s</u>]	<u>Samekh</u>	ָסָמֶךּ	/ˈsamɛχ/	/ˈsaməχ/	/ˈsamɛχ/	/ˈsɔme̞x/	: <u>:</u>
ע	[2]~ [5], [Ø]	<u>Ayin</u>	עַיִּן	/ajin/, /ʔa.in/	/ajɪn/	/ajin/	/ˈʕajin/	\ i
Ð	[<u>p]</u>	<u>Pe</u>	פַא	/pe/, /pej/	/pɛɪ/	/pe/	/pe̞/	i
9	<u>[f]</u>		פָא	/fe/, /fej/	/fɛɪ/	/fe/	/fę/	1
Ð	[<u>p]</u>		פַּא סוֹפִית	/pe sofit/, /pej sofit/	/ˈlaŋgə pɛɪ/	/pe sofit/	/pę sœˈfiθ/	i

ባ	<u>[f]</u>		פֵא סוֹפִית	/fe sofit/, /fej sofit/	/ˈlaŋgə fɛɪ/	/fe sofit/	/fe̞ sœˈfiθ/
Z			אָדי	/ˈtsadi/	/ˈtsadi/, /ˈtsadɪk/	/ˈtsadik/	\iốc²a'\
Υ	[<u>ts</u>]	<u>Tsadi</u>	צָדִי סוֹפִית	/'tsadi sofit/	/ˈlaŋgə ˈtsadɪk/, /ˈlaŋgə ˈtsadək/	/ˈtsadik sofit/	/ˈs°ɔði sœˈfiθ/
ק	[<u>k</u>]	<u>Qof</u>	qip	/kuf/, /kof/	/kʊf/	/kuf/	/gœf/
٦	[R]	Resh	בישׁ	\	\REI]\	/reʃ/	/re̞ʃ/
שׁ	Ŋ	Chin	שִׁין	/∫in/	/ʃɪn/	/∫in/	/ʃin/
שׁ	[<u>s</u>]	<u>Shin</u>	שִׂין	/sin/	/sɪn/	/sin/	/sin/
Ŋ	[<u>t</u>]	Tou	ابَرا	/+av/ /+af/	/tov/, /tof/	/tav/	/wct/
ת	<u>θ</u>]	- <u>Tav</u>	ابًا	/tav/, /taf/	/sov/,/sof/	/θav/	/θɔw/

By analogy with the other dotted/dotless pairs, dotless tav, Π , would be expected to be pronounced θ (voiceless dental fricative), and dotless dalet Π as θ (voiced dental fricative), but these were lost among most Jews due to these sounds not existing in the countries where they lived (such as in nearly all of Eastern Europe).

Yiddish modified $/\theta$ / to /s/ (cf. <u>seseo</u> in Spanish), but in modern Israeli Hebrew, it is simply pronounced /t/. Likewise, historical $/\delta$ / is simply pronounced /t/.

Shin and sin

Shin and sin are represented by the same letter, \forall , but are two separate <u>phonemes</u>. When vowel diacritics are used, the two phonemes are differentiated with a *shin*-dot or *sin*-dot; the *shin*-dot is above the upper-right side of the letter, and the *sin*-dot is above the upper-left side of the letter.

Symbol	Name	<u>Transliteration</u>	<u>IPA</u>	Example
שׁ (right dot)	shin	sh	/ʃ/	sh ower
الا (left dot)	sin	s	/s/	sour

Historically, *left-dot-sin* corresponds to <u>Proto-Semitic</u> *ś, which in biblical-Judaic-Hebrew corresponded to the <u>voiceless alveolar lateral fricative</u> /4/ (or /ś/). [27]

Dagesh

Historically, the consonants \beth bet, λ gimmel, \top daleth, \beth kaf, \beth pe and \beth tav each had two sounds: one hard (plosive), and one soft (fricative), depending on the position of the letter and other factors. When vowel diacritics are used, the hard sounds are indicated by a central dot called dagesh (\Box X \Box X), while the soft sounds lack a dagesh. In modern Hebrew, however, the dagesh only changes the pronunciation of \Box bet, \Box kaf, and \Box pe, and does not affect the name of the letter. The differences are as follows:

Nome		With dages	sh		Without dagesh				
Name	Symbol	Transliteration	IPA Example		Symbol	Transliteration	<u>IPA</u>	Example	
bet/vet	<u> </u>	b	/b/	b un	ב	v, <u>b</u>	/v/	van	
kaf		k	/k/	k angaroo	כ ך	kh, ch, <u>k</u> , x	/χ/	lo ch	
pe	9 ¶	р	/p/	pass	์ 9	f, p̄, ph	/f/	find	

In other dialects (mainly liturgical) there are variations from this pattern.

- In some <u>Sephardi</u> and <u>Mizrahi</u>
 dialects, bet without dagesh is
 pronounced [b], like bet with dagesh
- In <u>Syrian</u> and <u>Yemenite Hebrew</u>,
 gimel without dagesh is
 pronounced [γ].
- In Yemenite Hebrew, and in the Iraqi pronunciation of the word "Adonai",

dalet without dagesh is pronounced [ð] as in "these"

- In <u>Ashkenazi Hebrew</u>, as well as <u>Krymchaki Hebrew</u>, tav without dagesh is pronounced [s] as in "silk"
- In Iraqi and <u>Yemenite Hebrew</u>, and formerly in some other dialects, tav without dagesh is pronounced [θ] as in "thick"

Sounds represented with diacritic geresh

The sounds $[\widehat{\mathfrak{t}}]$, $[\widehat{\mathfrak{d}}_{3}]$, [3], written $\langle '\mathfrak{L}\rangle$, $\langle '\lambda\rangle$, $\langle '\lambda\rangle$, and $[\underline{w}]$, non-standardly sometimes transliterated $\langle II\rangle$, are often found in slang and loanwords that are part of the everyday Hebrew colloquial vocabulary. The symbol resembling an apostrophe after the Hebrew letter modifies the pronunciation of the letter and is called a *geresh*.

	Hebrew slang and loanwords										
Name	Symbol	<u>IPA</u>	Transliteration	Example							
Gimel with a geresh	' λ	[<u>d</u> ʒ]	ğ ^[29]	ğ áḥnun	[ˈd͡ʒaҳnun]	אַ'חְנוּן					
Zayin with a geresh	۲'	[3]	ž ^[29]	<u>koláž</u>	[koˈlaʒ]	קוֹלַאז׳					
Tsadi with a geresh	۷′	<u>[t]]</u>	č ^[29]	č upár (treat)	[t͡ʃuˈpar]	צ'ופָּר					
Vav with a geresh or double Vav	or (non	[w]	w	a w ánta (boastful act)	[aˈwanta]	אַוונְטַה					

The pronunciation of the following letters can also be modified with the geresh diacritic. The represented sounds are however foreign to <u>Hebrew phonology</u>, i.e., these symbols mainly represent sounds in foreign words or names when transliterated with the Hebrew alphabet, and not <u>loanwords</u>.

	Transliteration of non-native sounds										
Name	Symbol	<u>IPA</u>	Arabic letter	Exar	nple	Comment					
Dalet with a geresh	′ ⊤	[<u>ð</u>]	يز) <u>Dhāl</u> <u>Voiced</u> th	Dhū al- إلنانه (الحجة	ד'ו אל-חיג'ה	 Also used for English voiced "th" Often a simple T is written. 					
Tav with a geresh	' ח	<u>[θ]</u>	(ث) <u>Thā'</u> <u>Voiceless</u> th	Th urston	ת'רסטון						
Chet with a geresh	'n	[x]	<u>Khā'</u> (خ)	Shei kh (شیخ)	שייח׳	Unlike the other sounds in this table, the sound $[\chi]$ represented by $'\Pi$ is indeed a native sound in Hebrew; the geresh is however used only when transliteration must distinguish between $[\chi]$ and $[\hbar]$, in which case $'\Pi$ transliterates the former and Π the latter, whereas in everyday usage Π without geresh is pronounced $[\hbar]$ only dialectically but $[\chi]$ commonly.					
Ayin with a geresh or Resh with a geresh	'ソ or 'ヿ	[타]	<u>Ghayn</u> (క్ర)	Gh ajar (غجر); Gh alib (غالب)		The guidelines specified by the Academy of the Hebrew Language prefer Resh with a geresh ('\aa'); however, this guideline is not universally followed					

Geresh is also used to denote an abbreviation consisting of a single Hebrew letter, while gershayim (a doubled geresh) are used to denote acronyms pronounced as a string of letters; geresh and gershayim are also used to denote Hebrew numerals consisting of a single Hebrew letter or of multiple Hebrew letters, respectively. Geresh

is also the name of a cantillation mark used for <u>Torah</u> recitation, though its visual appearance and function are different in that context.

Identical pronunciation

In much of <u>Israel</u>'s general population, especially where <u>Ashkenazic</u> pronunciation is prevalent, many letters have the same pronunciation. They are as follows:

	Letters	Transliteration	Pronunciation (IPA)
		not transliterated	Usually when in medial word position: / _/ (separation of vowels in a hiatus)
ℵ Alef*	y Ayin*		When in initial or final word position, sometimes also in medial word position: silent alternatingly
		,	/ <u>ʔ</u> / (g <u>lottal plosive</u>)
Bet (without dagesh) Vet	 Vav	V	/ <u>v</u> /
□ Chet*) Kaf (without dagesh) Khaf*	kh/ch/h	/χ/
U Tet	T	t	/ <u>t</u> /
Kaf (with dagesh)	P Qof	k	/ <u>k</u> /
D Samekh	Sin (with left dot)	S	/ <u>s</u> /
Y	תס and	ts/tz	/ <u>ts</u> /

	Samekh*		Sin*		
Tsadi (with geresh)	טש Tet-Shin*	and	תש Tav- Shin*	ch/tsh (chair)	/ <u>t</u> ʃ/

^{*} Varyingly

Ancient Hebrew pronunciation

Some of the variations in sound mentioned above are due to a systematic feature of Ancient Hebrew. The six consonants /b g d k p t/ were pronounced differently depending on their position. These letters were also called $\underline{\textit{BeGeD KeFeT}}$ letters $\underline{\textit{/berged'kefet/}}$. The full details are very complex; this summary omits some points. They were pronounced as $\underline{\textit{plosives}}$ [b g d k p t] at the beginning of a syllable, or when doubled. They were pronounced as $\underline{\textit{fricatives}}$ [v γ ð x f θ] when preceded by a vowel (commonly indicated with a macron, \underline{b} \underline{g} \underline{d} \underline{k} \underline{p} \underline{t}). The plosive and double pronunciations were indicated by the $\underline{\textit{dagesh}}$. In Modern Hebrew the sounds \underline{d} and \underline{g} have reverted to [d] and [g], respectively, and \underline{t} has become [t], so only the remaining three consonants /b k p/ show variation. \neg $\underline{\textit{resh}}$ may have also been a "doubled" letter, making the list $\underline{\textit{BeGeD KePoReT}}$. (Sefer Yetzirah, 4:1)

n chet and ν ayin represented the pharyngeal fricatives /ħ/ and /ς/, respectively, ν tsadi represented the emphatic consonant /s^c/, υ tet represented the emphatic

consonant /t^c/, and ק *qof*represented the <u>uvular plosive</u> /q/.
All these are common <u>Semitic</u>
<u>consonants</u>.

• שׁ sin (the /s/ variant of ש shin) was originally different from both ש shin and D samekh, but had become /s/ the same as D samekh by the time the vowel pointing was devised. Because of cognates with other Semitic languages, this phoneme is known to have originally been a lateral consonant, most likely the voiceless alveolar lateral fricative /4/ (the sound of modern Welsh II)

or the <u>voiceless alveolar lateral</u> <u>affricate</u> /t4/ (like <u>Náhuatl</u> *tl*).

Regional and historical variation

The following table contains the <u>pronunciation</u> of the Hebrew letters in reconstructed historical forms and <u>dialects</u> using the <u>International Phonetic Alphabet</u>. The apostrophe-looking symbol after some letters is not a <u>yud</u> but a <u>geresh</u>. It is used for loanwords with non-native Hebrew sounds. The dot in the middle of some of the letters, called a "<u>dagesh</u> kal", also modifies the sounds of the letters $\underline{\mathbf{L}}$, $\underline{\mathbf{L}}$ and $\underline{\mathbf{L}}$ in modern Hebrew (in some forms of Hebrew it modifies also the sounds of the letters $\underline{\mathbf{L}}$, $\underline{\mathbf{L}}$ and/or $\underline{\mathbf{L}}$; the "dagesh chazak" – orthographically indistinguishable from the "dagesh kal" – designates <u>gemination</u>, which today is realized only rarely – e.g. in biblical recitations or when using <u>Arabic loanwords</u>).

Pronunciation

Symbol				.,	Re	constructe	ed	A
	<u>ısraeıı</u>	<u>Ashkenazi</u>	<u>Sepnardi</u>	<u>Yemenite</u>	<u>Tiberian</u>	<u>Mishnaic</u>	<u>Biblical</u>	eqı
Х	[ʔ, -]	[-]	[ʔ, -]	[ʔ, -]	[ʔ, -]	[7, -]	[2]	1/
Ŀ	[<u>b</u>]	[<u>b</u>]	[<u>b</u>]	[<u>b</u>]	[<u>b</u>]	[<u>b</u>]	[<u>b</u>]	<u>ب</u>
ב	<u>v</u>]	[v~y]	[b~β~v]	[<u>β</u>]	[<u>v</u>]	[<u>ß</u>]	<u>[β]</u>	<u>ڤ</u>
λ	[g]	[g~ģ]	[g]	[<u>d</u> ʒ]	[g]	[g]	[g]	ج
λ	[9]	1991	[g~ɣ]	[ɣ]	[γ]	[ɣ]	[ɣ]	غ
ন	[4]	[dd]	[d̪]	[d̪]	[d̪]	[d̪]	[d̪]	<u>د</u>
Т	[<u>d</u>]	[d~d]	[dٟ~ð]	<u>[ð]</u>	<u>[ð]</u>	[<u>ð</u>]	[<u>ð</u>]	<u>ذ</u>
ה	[h~?, -]	[h, -]	[h, -]	[h, -]	[h, -]	[h, -]	[<u>h</u>]	<u> </u>
I	[<u>v</u>]	[v~y]	[<u>v</u>]	[<u>w</u>]	[<u>w</u>]	[<u>w</u>]	[<u>w</u>]	9
	<u>[u:]</u>	[u:]	[u:]	[əw]	?	?	?	ـُو
i	<u>[ọː]</u>	[əၓ, ɐၓ]	[o:]	[œ:]	?	?	?	_و
7	[<u>z</u>]	[z~z]	[<u>z</u>]	ز				



9	[<u>p</u>]	[<u>p</u>]	[<u>p</u>]	[p]	[<u>p</u>]	[<u>p</u>]	[p]	پ
์ ๆ	[f]	[<u>f</u>]	[<u>f</u>]	[<u>f</u>]	[f]	[φ]	[φ]	<u>ن</u>
צץ	[<u>ts</u>]	[<u>îs</u>]	(ts)	[8] (1)	[8]	[s ^c] (2)	[s ^c]	<u>ب</u> س
ק	[<u>k</u>]	[<u>k</u>]	[<u>k</u>]	[g], [<u>G</u>],	[<u>q</u>]	[<u>q]</u>	[<u>q</u>]	ق
ר	[Å~R]	[]~[R]	[r]~[ɾ]	[r]~[ɾ]	<u>R</u>]	[<u>r</u>]	[[]	ر
שׁ	[]]	[Ù]	ហ	[រៀ		្យ	[]	ۺ
W	[<u>s</u>]	[<u>s</u>]	[<u>s</u>]	[<u>s</u>]	[<u>s</u>]	[<u>s</u>]	[<u>4</u>]	یں
Ð	[+]	[<u>t</u>]	[<u>t]</u>	[<u>t</u>]	[<u>t</u>]	[<u>t</u>]	[<u>t</u>]	<u>ت</u>
ת	[<u>t</u>]	[<u>s</u>]	<u>ו</u> ען	[<u>0</u>]	<u>[θ]</u>	[<u>θ</u>]	[<u>θ</u>]	<u>ث</u>

1. velarized or pharyngealized

2. pharyngealized

3. sometimes said to be <u>ejective</u> but more likely <u>glottalized</u>.

Vowels

Matres lectionis

 \aleph alef, Ψ ayin, I waw/vav and ' yod are letters that can sometimes indicate a vowel instead of a consonant (which would be, respectively, /?/, / Γ /, v/ and /j/). When they do, I and ' are considered to constitute part of the vowel designation in combination with a niqqud symbol – a vowel diacritic (whether or not the diacritic is marked), whereas \aleph and Ψ are considered to be mute, their role being purely indicative of the non-marked vowel.

Letter	Name of letter	Consonant indicated when letter consonantal	Vowel designation	Name of vowel designation	Indicated Vowel
Х	alef	/?/	_	_	ê, ệ, ậ, â, ô
ע	ayin	/ʔ/ or /ʕ/	_	_	ê, ệ, ậ, â, ô
	waw/vav	/w/ or /v/	İ	ḥolám malé	ô
	waw, vav	/ W/ OI / V/	•	shurúq	û
	yud	/j/	1.	ḥiríq malé	î
_	yuu	, , ,	l	tseré malé	ê, ệ

Vowel points

<u>Niqqud</u> is the system of dots that help determine vowels and consonants. In Hebrew, all forms of *niqqud* are often omitted in writing, except for children's books, prayer books, poetry, foreign words, and words which would be ambiguous to pronounce. Israeli Hebrew has five vowel phonemes, /i e a o u/, but many more written symbols for them:

Name Symbol		Written	<u>Israeli Hebrew</u>					
		Position	<u>IPA</u>	<u>Transliteration</u>	English example			
<u>Hiriq</u>	Ò	vowel written below consonant	[i]	i	m ee t			
<u>Tsere</u>	Ö	vowel written below consonant	[e], ([ej] with succeeding yod)	eh (precise pronunciation); ei (imprecise due to modern pronunciation, even if with succeeding yod – see Note 2)	b e d, p e nguin			
<u>Segol</u>	Q	vowel written below consonant	<u>[e]</u>	е	m e n			
<u>Patach</u>	Ō	vowel written below consonant	[<u>ä</u>]	a	f a ther			
Kamatz	Q	vowel written below consonant	[<u>ä</u>], (or [o̯])	ah, (or oh)	f a ther, I o gin			
<u>Holam</u> <u>Haser</u>	Ö	vowel written above consonant	[<u>o</u>]	0	h o me			
<u>Holam</u> <u>Male</u>	İ	isolated vowel written on its own	ľά	0	nome			
<u>Shuruk</u>	1	isolated vowel written on its own	<u>[u]</u>	u	f oo d			
<u>Kubutz</u>	Ö	vowel written below consonant	प्य	u	1000			

Note 1: The circle represents whatever Hebrew letter is used.

sometimes ei in Modern Hebrew. This is not correct in the normative pronunciation and not consistent in the spoken language. [30]

Note 3: The <u>dagesh</u>, <u>mappiq</u>, and <u>shuruk</u> have different functions, even though they look the same.

Note 4: The letter I (waw/vav) is used since it can only be represented by that letter.

Meteg

By adding a vertical line (called <u>Meteg</u>) underneath the letter and to the left of the vowel point, the vowel is made long. The <u>meteg</u> is only used in <u>Biblical Hebrew</u>, not <u>Modern Hebrew</u>.

Sh'va

By adding two vertical dots (called <u>Sh'va</u>) underneath the letter, the vowel is made very short. When sh'va is placed on the first letter of the word, mostly it is "è" (but in some instances, it makes the first letter silent without a vowel (vowel-less): e.g. | wè to "w")

		<u>Israeli Hebrew</u>					
Name	Symbol	<u>IPA</u>	<u>Transliteration</u>	English example			
<u>Shva</u>	Q	[<u>e</u>] or <u>Ø</u>	apostrophe, e, or silent	m e t or silent			
Reduced Segol	Q	[e̞]	е	m e t			
Reduced Patach	Q	[<u>ä</u>]	a	c a t			
Reduced Kamatz	Q	[o̞]	0	o n			

Comparison table

Vowel comparison table [31]

(phonetical	Vowel I	<u>ength</u> sted in Israeli Hebrew)	IPA	Transliteration	English			
Long	Short	Very Short			example			
.	-	-:	[<u>ä</u>]	а	fall			
••	Ÿ	v:	[e]	е	m e n			
İ	•	₹;	[<u>o</u>]	0	j o ke			
· 	٠.,		[<u>u</u>]	u	duty			
I .			[<u>i</u>]	i	media			
Note I:		By adding two vertical dots (<u>sh'va</u>) : the vowel is made very short.						
Note II:		The short o and long a have the same niqqud.						
Note III:		The short o is usually promoted to a long o in Israeli writing for the sake of disambiguation						
Note IV:		The short <i>u</i> is usually promoted to a long <i>u</i> in Israeli writing for the sake of disambiguation						

Gershayim

The symbol " is called a <u>gershayim</u> and is a punctuation mark used in the Hebrew language to denote acronyms. It is written before the last letter in the acronym, e.g. Π "\(\textit{\Gamma}\). Gershayim is also the name of a <u>cantillation mark</u> in the reading of the <u>Torah</u>, printed above the accented letter, e.g. \H .

Stylistic variants

The following table displays typographic and chirographic variants of each letter. For the five letters that have a different final form used at the end of words, the final forms are displayed beneath the regular form.

The block (square, or "print" type) and cursive ("handwritten" type) are the only variants in widespread contemporary use. Rashi is also used, for historical reasons, in a handful of standard texts.

	Variants								
Letter name (<u>Unicode</u>)	Contemporary			Early modern	Ancestral				
(<u>Officode</u>)	Block <u>serif</u>	Block sans-serif	<u>Cursive</u>	<u>Rashi</u>	Phoenician	<u>Paleo-</u> <u>Hebrew</u>	Aramaic		
Alef	×	א	lc	ħ	4	*	×		
Bet	ב	ב	٦	3	9	9	y		
Gimel	٦	λ	٤	٦	1	1	٨		
Dalet	٦	Т	3	7	4	4	7		
Не	Π	ה	ล	7	3	7	71		
Vav (Unicode) ^[16] / Waw	٦	I	1	1	4	4	7		
Zayin	7	7	3	1	1	I	1		
Chet	П	П	ħ	מ	目	目	n		
Tet	מ	υ	6	p	•	Ø	6		
Yod	ל	ı	•	,	Z	7	•		
Kaf	٥	כ	5	>	v	<i></i>	N		
Final Kaf	٦	٦	7		7	7	7		

Lamed	ל	っ		3	7	۷	_		
Mem	מ	מ	~	ກ	w	w	w	44	4
Final Mem		ם	P	٥		カ	カ		
Nun	נ	נ	ر)	y	9			
Final Nun	7		1	}			>		
Samekh	D	ס	0	Þ	丰	丰	"		
Ayin	ソ	ע	8	ע	0	0	U		
Pe	5	9	Ð	Ð	2	4	4		
Final Pe	٦	7	1	9	,	7)		
Tsadi	צ	Z	3	5	r		6 13		
Final Tsadi	r	γ	g	7	•	r	r, r		
Qof	ק	ק	7	ק	φ	9	P		
Resh	٦	٦	2	7	4	4	7		
Shin	ש	ש	e	t	W	~	v		

Tav	ת	ת	ブ	ת	+	×	h
-----	---	---	----------	---	---	---	---

Yiddish symbols

Symbol	Explanation
411	These are intended for <u>Yiddish</u> . They are not used in Hebrew, aside from in loan words $[\underline{d}]$. They are possible to visually recreate using a sequence of
<u>.</u>	letters, '' 'I II, except when a diacritic is inserted underneath that would not appear in the middle.
ڎ	The <u>rafe</u> (רפה) <u>diacritic</u> is no longer regularly used in Hebrew. In <u>Masoretic</u> <u>Texts</u> and some other older texts, <u>lenited</u> consonants and sometimes matres lectionis are indicated by a small line on top of the letter. Its use has been largely discontinued in modern printed texts. It is still used to mark fricative consonants in the <u>YIVO</u> orthography of <u>Yiddish</u> .

Numeric values of letters

Following the adoption of Greek Hellenistic alphabetic numeration practice, Hebrew letters started being used to denote numbers in the late 2nd century BC, and performed this arithmetic function for about a thousand years. Nowadays alphanumeric notation is used only in specific contexts, e.g. denoting dates in the Hebrew calendar, denoting grades of school in Israel, other listings (e.g. 'שלב, שלב א' – "phase a, phase b"), commonly in Kabbalah (Jewish mysticism) in a practice known as gematria, and often in religious contexts.



The lower clock on the <u>Jewish Town Hall</u> building in <u>Prague</u>, with Hebrew numerals in counterclockwise order.

letter	numeric value	letter	numeric value	letter	numeric value
<u>א</u>	1	I -	10	2	100
<u>ם</u>	2	<u> </u>	20	<u>1</u>	200
<u>\lambda</u>	3	<u> </u>	30	<u>ש</u>	300
I	4	<u>מ</u>	40	<u>ת</u>	400
<u>ה</u>	5	<u> </u>	50		
<u>I</u>	6	<u>D</u>	60		
<u>1</u>	7	<u>ע</u>	70		
<u>n</u>	8	<u>9</u>	80		
<u>ں</u>	9	<u>Z</u>	90		

The numbers 500, 600, 700, 800 and 900 are commonly represented by the juxtapositions תת"ק, ת"ש, ת"ש, ת"ש, and respectively. Adding a geresh ("'") to a letter multiplies its value by one thousand, for example, the year 5778 is portrayed as π "תשע"ח, where 'ה represents 5000, and π "תשע"ח represents 778.

Transliterations and transcriptions

The following table lists transliterations and transcriptions of Hebrew letters used in Modern Hebrew.

Clarifications:

- For some letters, the <u>Academy of</u>
 <u>the Hebrew Language</u> offers a
 <u>precise</u> transliteration that differs
 from the <u>regular</u> standard it has set.

 When omitted, no such precise
 alternative exists and the regular standard applies.
- The <u>IPA phonemic</u> transcription is specified whenever it uses a different symbol from the one used

for the **regular** standard Israeli transliteration.

 The <u>IPA phonetic</u> transcription is specified whenever it differs from IPA **phonemic** transcription.

Note: <u>SBL's</u> transliteration system, recommended in its *Handbook of Style*, differs slightly from the 2006 *precise* transliteration system of the Academy of the Hebrew Language; for " $\underline{\underline{\mathsf{Y}}}$ " SBL uses " $\underline{\mathsf{y}}$ " (\neq AHL " $\underline{\mathsf{z}}$ "), and for $\underline{\underline{\mathsf{N}}}$ " $\underline{\underline{\mathsf{N}}}$ with no dagesh, SBL uses the same symbols as for with dagesh (i.e. "b", "g", "d", "k", "f", "t").

Hebrew letter	example	Translation	Standard Israeli transliteration – regular ^[34]	example	standard Israeli transliteration - precise ^[34]	example	<u>IP</u> tı
consonantal, in initial word positions	אָם	if	none ^[<u>A1</u>]	im			
consonantal, in non-initial word positions	שָׁאַל	asked	ı	sha'ál	,	sha'ál	<u>/</u> `1
X silent	רָאשׁוֹן	first	none ^[A2]	rishón			
Э	تَآ	son	b	ben			
ב	טוב	good	V	tov			
λ	λ <u>λ</u>	roof	g	gag	g <u>ā</u>	gağ	
′ λ	ג′וּק	roach	ğ ^{[B1][29]}	ğuk			/ <u>(</u>
ਜ T	चान	boiler	d	dud	d <u>d</u>	du₫	
n consonantal	הָד	echo	h	hed			

n silent	פֿה	here	none ^[<u>A3</u>]	ро			
consonantal	Iİ	hook	V	vav	W	waw	
1	הוּא	he	u	hu			
İ	ί	to him	0	lo			
7	זָה	this	Z	ze			
′ ۲	זְ′רְגוֹן	jargon	<u>ž</u> [<u>B2][29]</u>	žargón			/;
Π	חָם	hot	<u>ի</u> ^[C1]	<u>h</u> am	μ̈́	ḥam	/ <u>〉</u> <u>di</u> [<u>†</u>
υ	קָט	tiny	t	kat	ţ	kaţ	
I consonantal	יָם	sea	у	yam			/j
part of hirik male (/i/ vowel)	וּשַׂ	in me	i	bi			
part of tsere male (/e/ vowel or /ei/ diphthong)	מֵידָע מ	information	е	medá	é	médá	/ <u>€</u>
^[28] ر, آ	כֹּה	SO	k	ko			
כ, ך	סְכָךְ	branch- roofing	kh ^[<u>C2</u>]	skhakh	<u>k</u>	s <u>k</u> ak	/ <u>></u>

ל	לִי	to me	1	li			
מ, ם	מוּם	defect	m	mum			
۲, ۱	נִין	great- grandson	n	nin			
Ō	סוֹף	end	S	sof			
y in initial or final word positions	עַדְלֹּאיָדַע	<u>Purim</u> - parade	none ^[A4]	adloyáda	c	ʻadloyádaʻ	<u>di</u> / <u>‹</u>
y in medial word positions	מוֹעִיל	useful	1	mo'íl	ć	moʻíl	/ <u>'</u> . <u>di</u> / <u>'</u> .
	טָיפּ	tip	p	tip			
פ, ף	פֿטפֿס	missed	f	fisfés			
1 /	צִיץ		ts	tsits	Ż	z i z	/ <u>í</u>
צ', ץ'	ריצ'רץ'	zip	<u>č</u> [<u>B3][29]</u>	ríčrač			/ <u>í</u>
ק	קול	sound	k	kol	q	qol	
٦	עִיר	city	r	ir			
שׁ	שָׁם	there	sh	sham	š	šam	/J

שׁ	שָׂם	put	s	sam	ś	śam
J.)	DIE	atrovib arri	+	+11+	t	+1.1+
ת	Ŋ I Ŋ	strawberry		tut	<u>t</u>	tut

Hebrew letter	Standard Israeli transliteration - regular [34]	standard Israeli transliteration - precise ^[34]	IPA phonemic transcription	IPA phonetic transcription
consonantal, in initial word positions	none ^[A1]			[2]
Consonantal, in non-initial word positions		,	/ <u>?</u> /	
X silent	none ^[A2]			
<u>a</u>	b			
ב	V			
λ		g		
λ	g	ğ		
΄ λ	ğ ^{[<u>B1</u>][<u>29</u>]}		/ <u>d</u> 3/	
न	d	d		
Т	u	₫		
consonantal	h			
silent	none ^[A3]			

consonantal	V	w		
.1	u			
i	О			[ð] or [ð]
٢	Z			
7	<u>ž</u> [<u>B2][29]</u>		/3/	
Π	<u>h</u> ^[C1]	μ	/ <u>x</u> / or /χ/ dialectical [ħ]	[χ]
ט	t	ţ		
consonantal	у		/j/	
part of hirik male (/i/ vowel)	i			
part of tsere male (/e/ vowel or /ei/ diphthong)	е	é	/ <u>e</u> / or /ej/	[e] or [ej]/
7 ,Э ^[28]	k			
כ, ך	kh ^[C2]	k	/ <u>x</u> / or /χ/	[x]
ל	I			
מ, ם	m			

				_
د, ا	n			
ס	S			
ע	none ^[A4]	c		only in initial word position
in initial or final word positions			dialectical	
			/ <u>?</u> /	
in medial word positions	ı	C	dialectical	
9 0	p			
פ, ף	f			
צ, ץ	ts	Ż	/ <u>îs</u> /	
צ, ץ צ', ץ'	<u>č[B3][29]</u>		/ <u>t</u> j/	
ק	k	q		
				[<u>K</u>] or [<u>R</u>]
٦	r			dialectical [r] or [r]
שׁ	sh	š	/ʃ/	
שׂ	S	ś		
ī)	t	t		
ת	T .	t		

Notes

A¹^ 2^ 3^ 4^ In transliterations of modern Israeli Hebrew, initial and final \mathcal{V} (in regular transliteration), silent or initial \mathcal{K} , and silent \mathcal{K} are *not* transliterated. To the eye of readers orientating themselves on Latin (or similar) alphabets, these letters might seem to be transliterated as vowel letters; however, these are in fact transliterations of the vowel diacritics – niqqud (or are representations of the spoken vowels). E.g., in \mathcal{K} ("if", [?im]), \mathcal{K} ("mother", [?em]) and \mathcal{K} ("nut", [?om]), the letter \mathcal{K} always represents the same consonant: [?] (glottal stop), whereas the vowels /i/, /e/ and /o/ respectively represent the spoken vowel, whether it is orthographically denoted by diacritics or not. Since the Academy of the Hebrew Language ascertains that \mathcal{K} in initial position is not transliterated, the symbol for the glottal stop \mathcal{K} is omitted from the transliteration, and only the subsequent vowels are transliterated (whether or not their corresponding vowel diacritics appeared in the text being transliterated), resulting in "im", "em" and "om", respectively.

"II" $[\underline{e1}]$ are sometimes used to represent $/\underline{w}$, which like $/\underline{\widehat{q3}}$, /3/ and /1/ appears in Hebrew slang and loanwords.

C1^2^ The Sound / χ / (as "ch" in <u>loch</u>) is often transcribed "ch", inconsistently with the guidelines specified by the Academy of the Hebrew Language: בח / χ am/ \rightarrow "cham"; סכך / χ a χ / \rightarrow "schach".

^{D^} Although the Bible does include a single occurrence of a final pe with a dagesh (Book of Proverbs 30, 6: ".אַל-הָּבָרִיו: פֶּן-יוֹכִיחַ בָּךְ וְנִכְזְבְתָּ."), in modern Hebrew /p/ is always represented by <u>pe</u> in its regular, not final, form "D", even when in final word position, which occurs with loanwords (e.g. שׁוֹפּ /ʃop/ "shop"), foreign names (e.g. יְלִיפּ /ˈfilip/ "Philip") and some slang (e.g. חַרַפּ / מָרַפּ / מֶרַפּ / מַרְבֶּרָיוֹבּ / χaˈrap/ "slept deeply").

Religious use

The letters of the Hebrew alphabet have played varied roles in Jewish religious literature over the centuries, primarily in mystical texts. Some sources in classical rabbinical literature seem to acknowledge the historical provenance of the currently used Hebrew alphabet and deal with them as a mundane subject (the Jerusalem Talmud, for example, records that "the Israelites took for themselves square calligraphy", and that the letters "came with the Israelites from Ashur [Assyria]"); others attribute mystical significance to the letters, connecting them with the process of creation or the redemption. In mystical conceptions, the alphabet is considered eternal, pre-existent to the Earth, and the letters themselves are seen as having holiness and power, sometimes to such an extent that several stories from the Talmud illustrate the idea that they cannot be destroyed. [36]

The idea of the letters' creative power finds its greatest vehicle in the <u>Sefer Yezirah</u>, or *Book of Creation*, a mystical text of uncertain origin which describes a story of creation highly divergent from that in the <u>Book of Genesis</u>, largely through exposition on the powers of the letters of the alphabet. The supposed creative powers of the letters are also referenced in the Talmud and <u>Zohar</u>. [37][38]



The four-pronged Shin

Another book, the 13th-century <u>Kabbalistic</u> text <u>Sefer HaTemunah</u>, holds that a single letter of unknown pronunciation, held by some to be the four-pronged shin on one side of the <u>teffilin</u> box, is missing from the current alphabet. The world's flaws, the book teaches, are related to the absence of this letter, the eventual revelation of which will <u>repair the universe</u>. [39] Another example of messianic significance attached to the

letters is the teaching of Rabbi Eliezer that the five letters of the alphabet with final forms hold the "secret of redemption". [39]

In addition, the letters occasionally feature in <u>aggadic</u> portions of non-mystical rabbinic literature. In such aggada the letters are often given <u>anthropomorphic</u> qualities and depicted as speaking to God. Commonly their shapes are used in parables to illustrate points of ethics or theology. An example from the <u>Babylonian Talmud</u> (a parable intended to discourage speculation about the universe before creation):

Why does the story of creation begin with bet?... In the same manner that the letter bet is closed on all sides and only open in front, similarly you are not permitted to inquire into what is before or what was behind, but only from the actual time of Creation.

Babylonian Talmud, Tractate Hagigah, 77c

Extensive instructions about the proper methods of forming the letters are found in Mishnat Soferim, within <u>Mishna Berura</u> of <u>Yisrael Meir Kagan</u>.

Mathematical use

In <u>set theory</u>, \aleph_0 , pronounced aleph-naught or aleph-zero, is used to mark the <u>cardinal</u> <u>number</u> of an infinite <u>countable set</u>, such as \mathbb{Z} , the set of all integers. More generally, the \aleph_α <u>aleph number</u> notation marks the ordered sequence of all distinct infinite cardinal numbers.

Less frequently used, the \beth_{α} beth number notation is used for the iterated power sets of \aleph_0 . The second element \beth_1 is the <u>cardinality of the continuum</u>. Very occasionally, a <u>gimel function</u> is used in cardinal notation.

Unicode and HTML



An example of a Hebrew keyboard.

The <u>Unicode</u> Hebrew block extends from U+0590 to U+05FF and from U+FB1D to U+FB4F. It includes <u>letters</u>, <u>ligatures</u>, <u>combining diacritical marks</u> (<u>Niqqud</u> and <u>cantillation marks</u>) and <u>punctuation</u>. The <u>Numeric Character References</u> is included for HTML. These can be used in many markup languages, and they are often used in Wiki to create the Hebrew <u>glyphs</u> compatible with the majority of web browsers.

Standard Hebrew keyboards have a 101-key layout. Like the standard <u>QWERTY</u> layout, the Hebrew layout was derived from the order of letters on Hebrew <u>typewriters</u>.

See also

- Hebrew braille
- Hebrew diacritics
- Cursive Hebrew
- Hebrew punctuation
- Hebrew spelling

- Help:Hebrew
- Inverted nun
- Koren Type
- Ktiv hasar niqqud ("spelling lacking niqqud")
- Significance of numbers of Judaism

Notes

^{a^} "Alef-bet" is commonly written in Israeli Hebrew without the *maqaf* (מקף, "[Hebrew] hyphen"), אלף־בית עברי, as opposed to with the hyphen, אלף־בית עברי.

b[^] The <u>Arabic letters</u> generally (as six of the primary letters can have only two variants) have four forms, according to their place in the word. The same goes with the <u>Mandaic ones</u>, except for three of the 22 letters, which have only one form.

רבי"ת, ח"ם, and א"ם can only be read b, k and p, respectively, at the beginning of a word, while they will have the sole value of v, kh and f in a sofit (final) position, with few exceptions. [28] In medial positions, both pronunciations are possible. In Modern Hebrew this restriction is not absolute, e.g. פִּיזִיקָאי /fiziˈkaj/ and never /piziˈkaj/ (= "physicist"), פִיזִיקָאי /snob/ and never /snov/ (= "snob"). A \underline{dagesh} may be inserted to unambiguously denote the $\underline{plosive}$ variant: $\underline{\mathfrak{I}} = /b/$, $\underline{\mathfrak{I}} = /p/$; similarly (though today very rare in Hebrew and

fricative variant: $\dot{\bar{D}} = /v/$, $\dot{\bar{D}} = /\chi/$ and $\dot{\bar{D}} = /f/$. In Modern Hebrew orthography, the sound $[\underline{p}]$ at the end of a word is denoted by the regular form " \bar{D} ", as opposed to the final form " \bar{D} ", which always denotes $[\underline{f}]$ (see <u>table of transliterations and transcriptions</u>, comment $[\underline{D}]$).

 d^{\wedge} However, II (two separate vavs), used in <u>Ktiv male</u>, is to be distinguished from the *Yiddish ligature* II (also two vavs but together as one character).

e1^ e2^ e3^ e4^ e5^ The Academy of the Hebrew Language states that both [v] and [w] be indistinguishably represented in Hebrew using the letter vav. [34] Sometimes the vav is indeed doubled, however not to denote [w] as opposed to [v] but rather, when spelling without niqqud, to denote the phoneme /v/ at a non-initial and non-final position in the word, whereas a single vav at a non-initial and non-final position in the word in spelling without niqqud denotes one of the phonemes /u/ or /o/. To pronounce foreign words and loanwords containing the sound [w], Hebrew readers must therefore rely on former knowledge and context.

Explanatory footnotes

a. Possibly rooted from Ancient Egyptian <u>d</u> or dj.

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