The Atomic-Axiomatic Structure of Language

Hebrew etymology

The etymology of Indo-European languages is a painstaking effort to sort through the remains of the havoc wreaked upon the originally perfect language by its diverse and dispersed speakers. One of the aims of such studies is the recovery of the root system of the primitive Indo-European language, lost in these upheavals. The etymology of Indo-European languages is also greatly preoccupied with the task of tracing the transformation of words shared by various members of the family as they gradually drifted apart from the mother tongue.

By contrast, the etymology of Semitic languages, which are fully developed yet have retained their primeval root system in pristine form, is of a different nature—their's is an entirely internal affair. There is very little that Hebrew can gain from the etymological consideration of the few other members of its family of tongues. Hebrew and its living relatives—Arabic and Aramaic—are formally similar, have identical roots (of assorted different shades of meaning), and are barely etymologically differentiable from one another.

The etymology of Hebrew endeavors to uncover and reveal the inner sense of the language and to expose the linguistic devices by which the root system of the language refers to basic acts and states of the physical world as we see it and interact with it.

Each root of the Hebrew language is composed of vocal or literal markers referring to the most elementary experiences of our material existence. These few markers stand for the fundamental concepts—the conceptual atomic particles—that combine to give language its power to describe the reality of space, substance and diversity.

In its entirety, this root system accounts for the full range of the human experience. It stands to reason that this root system is implicit in all languages, making them equivalent and therefore translatable.

Fundamental concepts

The whole edifice of the Hebrew language, its Semitic relatives, and possibly also the tongues of the West, is composed of seven phonemes representing the seven fundamental, or primitive, concepts of language. These fundamental concepts are the building blocks of meaning, and each root of the language is compiled of at least one such concept.

concept		representing letters	
עב-עף-בא	av-af-ba	ב, ו, פ, ף	b, v, w, f, p
עג-גע-הך	ag-ga	ג, ה, ח, כ, ך, ק	c, g, k, q
עד-עז-זע	ad-as-at-az-za	ד, ז, ט, י, ס, צ, ץ, ש, ת	c, d, i, j, s, t, z
על	al-la	ל	l
עם	am-ma	מם	т
נע	na	ב, ז	n
ער-רע	ar-ra	٦	r

The fundamental concept av-af-ba, yz-yv-zy, is a constituent element of the English words: up, be, eve, of, off, if, ebb, have, heave, heap; the conceptual common denominator of which is 'to be on top of,' 'to be upon (up-on)'. The fundamental concept ag-ga, -xv yz, is the sole constituent element of the English words: go, gig, huge, age, oak, ache, ague, cake, each, cue, co-; the conceptual common denominator of which is 'to be large,' 'to be significant'. The fundamental concept ad-az-za, yv-yv, is the sole constituent element of the English words: as, is, the, thee, so, us, odd, add, ode,

do, at, it, to, use, sit, eat, toe, tow, two, oat, ooze, adz; the conceptual common denominator of which is ' to be extended' in both the metaphorical and literal sense. The fundamental concept al-la, $\forall d \in d \in d$, is a constituent element of the English words: all, ale, ell, ill, tall. The fundamental concept am-ma, $\forall d \in d \in d$, is a constituent element of the English words: am, me, come, sum, among; the conceptual common denominator of which is 'to possess an accumulated mass or be of essence. The fundamental concept na, $\forall d \in d \in d$, is the sole constituent element of the English words: an, in, on, one, no, new. The fundamental concept ar-ra, $\forall r \in d \in d \in d$, is a constituent element of the English words: are, err, or, re-, tear, rend, rip.

The fundamental concept av-af-ba, vz-vp-zv, of heaving and being, is represented by the Hebrew letters p, z, r, z, which correspond to the English letters b, v, w, f, p. Whenever one of these consonants is written or sounded in the lingual root, this signifies that the root contains this concept as one of its primary components. The fundamental concept vz-vq-zw has been vocally and literally augmented in Hebrew to form the words:—

עַבָּה, עַוָּה, (עָבָּה), העיב, בעה, פעה, פעפע, אפה (כלומר עַבָּה הבצק ללחם), בוּעה, איבה (כלומר העבה שׁל איום), אָוָה (כלומר עבוי הרצון), יוֹפי (כלומר הופעת האברים ועיבויים), אב, בן, בת, בוּעה, פוּעה, אבעבוּעה, אַב, אביב (כלומר זמן בא והתעבוּת התבוּאה), ביב, אוב (כלומר מין כלי עָבָה), עוֹף, אף, פה, פאה, עפעף, בבה (כלומר בוּעת העין), בבוּאה, וו, אופי (כלומר עוֹבי שׁל תכוּנוֹת).

From this fundamental concept we also have the name of the beautiful (יפה) city יָפּוֹ heaved (נבל), גוֹבָה, כּוֹבָה, קוֹוָה, גוֹבָה, כּוֹבָה, קוֹוָה, nubile, and nebulous (נבל) mountains נכבו which the French call *beaumont*.

גחך, כאה, חכך, חקק, חח, חוֹח, חֵרָ, חֵיק, כָּהָה, קעקע, וגם גהה (כלומר גאה וגח כוחו בחוג חיקו). The fundamental concept az-za, עו-זע, of exiting and existing, is represented by the Hebrew letters c, d, j, s, t, z. Whenever one of these consonants is written or sounded in the lingual root, this signifies that the root contains this concept as one of its primary components. From this fundamental concept we have the Hebrew names of the animals:—

איה, דאה, דיה, דישון, יתוּשׁ, עֵז, עיט, סוּס, סיס, אישׁ, עשׁ, עישׁ, עתוּד, צִי, צֹאן, שֶׁה, תאו, אתון (כלומר הבהמה האדונית האיתנה), תישׁ.

In the Greek word $\zeta \varepsilon \omega$, as in zoology, the study of animals, the letter ζ corresponding to the Hebrew letter 1, appears to signify this same concept.

The fundamental concept וע-עו ועיש, goat, is not an indication of the swiftness (תושה) of the animal or its vigor (תושה) but rather the extension of its body, as in מוויה, a door post, and עיס, flight.

From the fundamental concept y_1 -y we also have the names of protruding or projecting body parts: —

, שָׁן, און, יד, דד, שׁד, עטין, עין, אישון, אצבע, צדע, שֵׁת

the appellations of shoots and sprouts: — עַרָא, אָטָר, דָאָר, אָאָנָה, אָשָָה, צְאַל, וַיִת, שַׁיִת, תוּת, אטד, דוּדא, עַזע, זיז, ציץ, עציץ, עסיס, סד, יַתֶר, שׁוֹט, דשׁא, נָטַע, סְנָה, תְּאֵנָה, שְׁשָָה, צְאַל, וַיִת, שַׁיִת, תוּת, אטד, דוּדא, עדש, שׁעוּעִית,

the names of the numbers:—

שְׁנַיִם, שָׁלוֹש, חָמֵשׁ, שֵׁשׁ, שֵׁבַע, שָׁמוֹנֵה, תֵּשַׁע, עֵשֵׁר,

references to fire and smoke: -

הצתה (כלומר אָז יוצאת בלהבותיה). הצתה (כלומר האש), אד, אָש (כלומר אָז יוצאת בלהבותיה). הצתה (כלומר הוצאת והסטת האש), איז fundamental concept *az-za*, עו-זע, appears in the particle אָז, the demonstrative pronouns (אָז וועז-הוא), זו (עז-הוא), זו געוי-הוא), זו אַ

ידע, ישע, עזז, אטט, אשש, ישש, אדש, יאש, סעד, צעד, שעט, אסא, שוע, דוד, עדו, ששון, דיצה, זדון, עשה (כלומר העיז והוציא לאור, ותוצאתה יש(היא-עז), באנגלית is), אות (כלומר מעשה של שנוי שהוא סימן או ציון להורות על דבר), אָז (כלומר אין לצאת ולצוין), זָה (כלומר הצין בעוז), זו, עַת (כלומר אַין צצה), עַט (כלומר עַץ או ציין), אַת (כלומר כלומר עַץ), עַד, זַד (כלומר בעל עוז ועדוד), עַד, עוד, צד (כלומר קצה צין ודואה), אוין, אות, איד, אסון (כלומר עשון של דבר רע), שואה (כלומר צוא עזה צדה סועה ומסיטה הכל), אשד, אשש, אתא, אתה, אתת, דאה, דְּדָה, דוּד (כלומר כלי מאושש שהתבשיל עומד בסודו), דוּץ, דוּש, דשרש, דת, זוּד, זוּז, מזוּזה (כלומר יד או צד הדלת הצץ), זוּט, זוּט, זוּע, זיד, זעה, זעזע, טאטא (כלומר מעשה ציצים ותוּתים), טוּס, טוּש, טיט, טעה, טשטשש, ידד, ידה, יזע, יסד, יעד, יעז, יעט, יעץ, יצא, יצע, יצת, ישט, יתד, הָזֶה, הְטֶה, הסיע, השיא, הָשֶׁה, התיז, התיש, סאה, סאסא, סדד, סוּד, סוּט, הסית (כלומר הזיד להסיט את הדעת), סטה, סיד, סיס, סיעה, סעה, סתת, עַדָה, עדי, עוד, עוּד, עוּז, עוּט, עוּץ, עוּש, עוּת, עדה, עזו, עטה, עטש, עסה, עסס, עצד, עצה, עצע, עש, עשש, עשת, עתד, עוד, עוּז, עוּט, עוּץ, עוּש, עוּת, עדה, עוז, עטה, עטש, עיט, עסה, עסס, עצד, עצה, צעצע, עש, עשש, עשת, עתד, עתת, צאה, צדד, צדה, צדע, צוּד, מצוּדה, צוּת, צטט, צַיָּה, צית, צעד, צעה, צעצע, אות, שיא, שַר, שָׁדָה, שדד, שוּט, שוּש, שטה, שיד, שיש, שאה, שאט, שדד (כלומר צַדָּד והשית שלל), שוּד, שוּט, שוּע, שטה, שַעָּש, תוז, תיש, תסס, תעד, תעה, תעה, תעה, שמס, שעט, שעט, שעשע, ששא, ששה, שתה, שתת, תאה, הַא, תוז, תיש, תסס, תעד, תעה, תעתע, תשע, משע, שעמ, איז, א, תוז, מוז, איז, שתה,

לו, לא, אַלו, עלה, לאה, לעע, לוע, לול, לולאה, לַיָּל (כלומר זמן לאוּת והתעללוּת החושך על פני הארץ), עלילה (כלומר ענין של מעלות), עלה, עלה, עלי, איל, אול, עול, עולל, אלון, אלה.

The fundamental concept am-ma, vv, of massivity and immensity, is represented by the Hebrew letter v, which corresponds to the English letter m. Whenever this consonant is written or sounded in the lingual root, this signifies that the root contains this concept as one of its primary components. The fundamental concept vv has been vocally and literally augmented to form the words:—

אָם (כלומר תנאי התאמת האפשרויות), אָם, אוּמה, אימה, ים (כלומר אגם המים העצום הזועם במקומו), יום (כלומר ים האור והחום הצנום הקם בין הלילות), מאה, מום (כלומר פגם עמום בגוף), נום, נעם, מעי, מו, מים, מֶנָה (כלומר חלק עמום ונאה מאותו המין), מַנּוּי (כלומר צרוף אמין אל בני המין), ממון (כלומר מאות של מעות מנויות וטמונות).

The fundamental concept na, y_1 , of newness, is represented by the Hebrew letter 1, which corresponds to the English letter n. Whenever this consonant is written or sounded in the lingual root, this signifies that the root contains this concept as one of its primary components. The fundamental concept y_1 has been vocally and literally augmented to form the words:—

נא, און, תנועה, אונה, נן, אנן, ענן, נון, מענית, וגם ענה (כלומר אַנָּה דאגוֹת או אָנָה דברים). The fundamental concept *ar-ra*, ער-רע, of aggregation and separation, is represented by the Hebrew letter *r*. Which corresponds to the English letter *r*. Whenever this consonant is written or sounded in the lingual root, this signifies that the root contains this concept as one of its primary components. The fundamental concept y has been vocally and literally augmented to form the words:—

רְאָיָה (כלוֹמר ערעוּר האטימוּת), ארה, רעה (כלוֹמר נער בשׁדה עם שׁאר מרעיו), רעע, עִיר, עַיָר, ריר, מערה, ערוּי ערוּי, ערירי, רעי, רַעַ, רֵעָ, רֵעוּת כלוֹמר מערכת יחסים ערה ורצונית שׁל אנשים משוּחררים), יְרָאָה (כלוֹמר ערעוּר הבטחוֹן העצמי), רֵע, רַעְיָה (כלוֹמר רוֹעה עם דוֹדה בשׁדוֹת החיים), תרוּעה, אוֹר, אוּר, עוֹר, יריעה, יער, ארן (כלוֹמר מין תֹרָן רענן), ארוֹן.

The fundamental concept *ar-ra*, ער-רע of plurality and variability is common in the loose and freely moving body parts: —

שֶּׁרֶק, מַפְרֶקֶת, בשֹׁר, שֵׂעַר, רֹאשׁ, עֹרף, עֹרק, צואר, זרוֹע, זרת, טבוּר, עוֹר, פרק, רגל, ירך, ברך, גרוֹן, גרגרת, מרפק, מוּראה, קבורת, קרב, קרסוֹל, רחם, רקמה, שׁריר.

The form of the Hebrew letter

All Hebrew letters are typographically minimal. They are composed mostly of short vertical and horizontal segments that meet at corners and nodes. In no Hebrew letter do segments cross. All letters except κ have only one node and the number of rays issuing from a node is invariably three.

Letters representing the same fundamental concept closely resemble each other. Such are the letters τ , τ , τ , τ , representing the fundamental concept τ . The letter τ is merely the letter π rotated on its side; the letter π is the letter π with a disconnected left leg; the letter ι is the letter π with a tilted left leg, and the letter τ is the letter π with an elongated left leg. Notice also the similarity of the letters τ , τ that represent the fundamental concept τ .

Even though it is possible that the Hebrew letter is a formal abstraction, it no longer has any pictorial significance. It is an illusion to see, for example, in the Hebrew word המור, ass, the letter ה as depicting the animal's hind legs, the letters ה as depicting its body, and the letter ה as depicting its neck with a forward, thrusting head. The same is true for the names of the beasts במר Likewise, the letter ש in time is not intended to depict the horns of the ox, and the letter ש in time is not an image of the rays of the sun, nor (מכ) a picture of its round body.

The Greeks received the alphabet (אלף-בית) from the people of the East (אלף-בית), kedem, and hence "academy" for the place of study of the art of writing, brought to Greece by the legendary Phoenician Cadmus, K $\alpha\delta\mu$ oc.) By the universality of the human sound system, or by the affinity of the Semitic and Indo-European languages, these letters were of instant use for transcribing their language, and eventually for transcribing all other Indo-European languages.

The Greeks rounded and looped the squarish letters to allow for a continuous draw of the pen, and they reversed the direction of the writing to ease the dragging, as opposed to the pushing, of the pen on the flat paper or parchment. The Hebrew letter 2, for example, turned in this process into β , with two loops created by the coming and going of the pen over the top and bottom horizontal segments of 2, and with a bent down tail, absent in its capital version B. It appears that the letter ρ is also a reversed and looped \neg , and that the Greek letter ζ is exactly in the shape of the Hebrew letter τ . The corresponding capital letter Z was rectified to ease its carving into stone. The letter η , corresponding to the Hebrew letters π , π , was slightly stylized, and in the corresponding capital form H the top of the letter was lowered to its loins, to leave it in the form of the archaic Hebrew letter now written as π .

One notes the similar aspect of the Latin letters I, J, Z, S, Y, T and the Hebrew letter r. Also the similarity between the Latin Capitals C and G, and their resemblance to the reflected Hebrew letter \mathfrak{c} . Also the similarity between the roman D and the Greek Δ , which appears to be in the shape of a tent flap, $\mathfrak{r}, \mathfrak{c}, \mathfrak{r}, \mathfrak{c}, \mathfrak{r}, \mathfrak{c}, \mathfrak{r}, \mathfrak{c}, \mathfrak{c},$

The triliteral root

בהלועב-הך-על), בחלועב-הך-על), בדלועב-עד-על), בצקועב-עז-גע), גבלוגע-עב-על), גחלוגע-הך-על), גמלוגע-עם-על), דחקועד-הך-גע), דפקועד-עף-גע), דלקועד-על-גע, זהרועז-הך-ער), זמרועז-עם-ער), חלףוהך-על-עף), חסדוהך-עז-עד), טפלועז-עף-על), כלםוגע-על-עם), לטףועל-עז-עף), מרחועם-ער-הך), נפחונע-עף-הך), נשך ונע-עז-הך), סכןועז-הך-גע), פרםועף-ער-עם), צפרועז-עף-ער), קרסוגע-ער-עז), רצחוער-עז-הך), שנסוזע-נע-עז), תלםועז-על-עם), תמרועז-עם-הך).

A root consisting of three letters may be composed of three, two, or only one fundamental concept. The root (הכך (הך - גע - הכך הכך), for example, contains only the fundamental concept עב- גע- גע). The same is true of the triliteral roots (אר- הך - גע - גע). The roots: —

סתת(וע-עו-עו), צדד(וע-עו-עו), שדד(וע-עד-עד), שדר(וע-עד-עד), שטט(וע-עו-ו), שתת(וע-עו-עו), תסס(וע-עו-עו), תשש(וע-עו-עו),

Whenever the fundamental concept עד-רע appears amongst the constituents of the root, it is an indication that the root alludes to aggregation or plurality, as in כָּרָך which means: to rend, to tear, to rip, to untangle, or to take apart. Notice that "combination" itself combines the fundamental concepts עב, עב, עב, עב, ענו is devoid of the fundamental concept עד, of plurality. On the other hand, "correlation" does include the fundamental concept עד.

In the following pairs of roots, the complementary exclusion/inclusion of y in the primary components of the root indicates reference to opposite states of existence, whole versus varied:—

בצק/ברק, בצק/בצר, גדל/גרר, גדל/גרל, דגל/רגל, דגל/דגר, גמל/גרל, גמל/גמר, זהם/זרם, זמן/זמר, הדק/חרק, חדש/חרש, חסד/חסר, חסד/חרד, חכם/חרם, חכם/חכר, חתם/חתר, טפל/טפר, יחר/יחד, יתר/יתד, כלם/כרם, כתל/כתר, משח/מרח, נעם/נער, סכן/רכן, עדד/ערר, עדף/ערף, עקר/עקד, פחם/פרם, פטם/פרם,

פטר/פטד, פקר לפקד, צמק/צמר, צפח/צפר, קלס/קרס, שהם /רחם, שתק/שרק, נצח/רצה, תמך/רמך. Such pairs also exist in English, for example: tame/tear, mode/more, keep/reap, meek/reek, come/core, some/sore, bend-mend/rend, boot-shoot/root.

One way that Hebrew completes deficient roots, that is, roots consisting of only one or two fundamental concepts, and fulfills the canonical triliteral form requirement, is by inserting the neutral, or filler, letters y, x. These letters have a purely vocal or visual function, and impart no additional conceptual meaning to the root. This device is used in the roots:—

אתא(עו-זע), ידע(עו-זע), עדף(עד-עף), אסף(עז-עף), עקץ(עג-עז), דאג(עד-עג), שאף(עז-עף), צעף(עז-עף), פעל(עף-על), בלע(עב-על), גלע(גע-על), כלא(גע-לע), פלא(עף-על), פתע(עף-זע), כרע(גע-רע), קרע(גע-רע), קרטע(גע-ער-זע), טאטא(זע-זע), שעשע(זע-זע).

אוֹר(הוּא-ער), עיר(היא-ער), בוֹר(עב-הוּא-ער), בוּז(עב-הוּא-עז), גוּר(גע-הוּא-ער), גיר(גע-היא-ער), דוֹר(עד-הוּא-ער), נוּר(נע-הוּא-ער), דישׁ(עד-היא-עז), זיז(זע-היא-עז), ציץ(זע-היא-עז), גבה(גע-עב-היא), געה(גע-היא), כאה(גע-היא), קשׁת(גע-זע-עז, גע-עז-את).

No Hebrew words consist of vowels only, which would render them devoid of conceptual meaning. Hence, in the word א, an island or a mass of land, we consider the letter ' as marking the fundamental concept w, rather than the personal pronoun א. The tendency in Aramaic to vocally smudge sibilants, and thereby cause a decline in the conceptual quality of the word, has created such '*aaa*' anomalies as y, a tree, or yy in Hebrew. To a lesser extent this may have happened in Hebrew as well—yy being possibly a softened form of yy or yy. Likewise, ' is possibly a softened form of y.

Occasionally, an inserted ו or i is recognized as standing for a muted ב, as, for example, in (גר הא-עד) and its cognate (גר ענ-עד).

A guttural π in the first or second position within the root signifies the fundamental concept χ , χ , but the silent terminal π appears to be an inert filler, like χ . Mostly, we interpret this terminal π as signifying the personal pronoun χ . Hebrew also uses these terminal π , χ , χ , π to visually differentiate between approximate roots of the same ancestry, thereby creating roots of different shades of meaning. Examples of the use of terminal χ , χ , π to shift and refine the meaning of close roots are provided by:—

ברא-ברה, פרא-פרע-פרה, פלא-פלה, גבע-גבה, כלא-כלה, קנא-כנע-קנה, קפא-כפה, זרא-זרע-זרה, טלא-תלע-תלה, טמא-טמע, יצא-יצע, לבא-לוה, מצא-מצה, נבא-נבע-נוה, צבא-צבע-צבה, קרא-קרע-קרה, רפא-רפה, שפע-שפה.

Consider also the alterations: -

בההועב-הך-היא), בכהועב-הך-היא), פכהועף-הך-היא); בהםועב-הך-עם), פחםועף-הך-עם); בהלועב-הך-על), בחלועב-הך-על); בהןועב-הך-נע), בחןועב-הך-נע); בהרועב-הך-ער), בחרועב-הך-ער), פכרועף-הך-ער); הברוהך-עב-ער), חברוהך-עב-ער); הגרוהך-גע-ער), חגרוהך-גע-ער); הדרוהך-ער-א, גדרוגע-עד-ער), חדרוהך-ער-ער); דהםועד-הך-עם), זהםועז-הך-עם), שחםועז-הך-עם); שההועז-הך-היא), שחהועז-הך-היא); זהרועז-הך-ער); דהמועד-הך-ער), זכרועז-הך-ער); להמועל-הך-עם), לחמועל-הך-עם); דההועד-הך-היא), ההועד- הך-היא); מהה(עם-הך-היא), מחה(עם-הך-היא); נהם(נע-הך-עם), נחם(נע-הך-עם); רהב(ער-הך-עב), רחב(ער-הך-עב); מהר(עם-הך-ער), מחר(עם-הך-ער); הלל(הך-על-על), חלל(הך-עח-על), גלל(גע-על-על), כלל(גע-על-על); הוה(הך-עב-היא), חוה(הך-עב-היא), גבה(גע-עב-היא), כוה(גע-עב-היא), קוה(גע-עב-היא); הדה(הך-עד-היא), חדה(הך-עד-היא), הזה(הך-עז-היא), הסה(הך-עז-היא), חזה(הך-עז-היא), חתה(הך-עז-היא); היה(הך-עז-היא), חדה(הך-עז-היא); המה(הך-עם-היא), חמה(הך-עם-היא); המס(הך-עם-עם), חמס(הך-עם-עם); הנה(הך-נע-היא), חנה(הך-גע-היא); הרה(הך-ער-היא), חרה(הך-ער-היא);

Still, we also have the kindred pairs רוה, צוה-צוה, צוה רוה, and more, in which the terminal π does appear to be a vocally softened or visually altered π , marking the fundamental concept גע-הך.

Hebrew also extensively uses the device of substituting into the root different letters representing the same fundamental concept to enrich and variegate its verbal stock. Some examples of such discriminating substitutions are:—

אתר-עטר-עתר, אהל-אחל-אכל-עכל, אזר-אצר-אסר, בשר-בסר בדר-בתר, בהר-בחר, גלל-הלל-חלל-כלל-קלל, גבב-קבב-גפף-חפף-כפף, גדר-קדר, גמר-כמר, דבר-טבר-צבר-תבר, דלג-דלק, חדר-הדר, חבר-חור, הלם-חלם, התל-חתל, חטר-חתר, חדש-כתש-גדש, טבח-טוח, טען-תאן, יגר-יהר-יחר-יקר, ירח-זרח, יפה-שפה, כלא-קלע, נפל-נבל-נול, נגר-נהר-נחר-נקר, נהם-נחם, סהר-סכר-זהר-זכר, פקע-בקע, פצע-בצע, פטר-פתר, פרך-פרח, פלח-בלח, צהר-צחר, צבר-צואר, צרח-צרך, קבר-כבר, קשר-כשר, קשט-קשת, קטף-כתף, קטב-כתב, קטל-כתל, קטם-כתם, רגם-רקם, רתם-רדם, רכב-רחף, רבך-רוח, שגל-שחל-שכל-שקל, שגר-שקר, שהם-שחם, שהה-שחה, שסם-כתם, רגם-רקם, רתם-רדם, תמר-סמר-זמר-זמר.

This device is useful when there is a need to spawn an abstract root out of a concrete metaphor, as in סגר-וקר-סכר-שכר, to close-to lock-to erect-to rent, which all have a clear and factual existential meaning, compared to their abstract cognate אוכר, to remember. The omission in Hebrew of the root אוריד (whether by design or by default) creates a conflicting verbal homology between אוכר, to remember (re-member), and אוכר, a male—a conflict that can be resolved only contextually.

Degree of closeness of roots

ברר, פרר; גרר, הרר, חרר, קרר; דרר, זרר, סרר, צרר, שרר; רבב, רפף; רגג, רכך, רקק; רדד, רטט, רסס, רצץ, רששׁי ברג, ברח, ברך, ברק, פרג, פרח, פרך, פרק; ברד, ברז, ברש, ברת, פרד, פרז, פרט, פרס, פרשׁ, פרת; גרב, גרף, חרב, חרף, כרב, קרב; גרד, גרז, גרט, גרס, גרשׁ, הרס, כרס, כרשׁ, כרת, קרד, קרט, קרס, קרץ, קרשׁי, גרל, חרל; גרם, חרם, כרם; גרן, הרן, חרן, קרן; דרב, זרב, זרף, טרף, סרב, סרף, צרב, צרף, שרב, שרף, תרף; דרג, דרך, זרח, זרק, טרח, טרק, סרג, סרח, סרך, צרח, צרך, שרף, שרף, תרג; דרס, דרשׁ, זרד, זרז, טרד, Next in line are the roots that consist of the same fundamental concepts, but arranged in a different order. For example:—

רבק, רקב, ברק, בקר, קבר, קרב; ברד, בדר, דבר, דבר, רבד, רטב; גרד, גדר, דגר, דגר, רקד, רתק; גרל, רגל; גרם, גמר, מרק, מגר, רגם, רמח; גרן, כנר, רגן, נגר; צרב, צבר, רצף, רבץ, פרץ, פצר; צרח, צחר, רצח, רחץ, חרץ, חצר; דרס, תשר, רטש, רשת, סדר, זרד; מרס, מסר, רמס, רזם, סמר, זרם; מרץ, רמץ, צרם, צמר.

The last and most comprehensive category is of the roots in which any of the fundamental concepts yz, yz, yz, yz, zz have substituted one another, or have rearranged their order in the root, or have alternated their representing letters. In this process of permutations and substitutions the fundamental concept yz is never introduced into a root in which it was originally absent, and is never removed from a root in which it was originally present, since y is of a particular nature.

There are only two fundamental concepts

Hebrew in particular, and possibly language in general, perceives and expresses reality not as a manifold but as a mere bifold. The six fundamental concepts, vzv, vzvv, vzv, vzv, vzvv, vzvv, vzv,

The seventh elementary concept, עדרידע represents the other aspect of reality, that of separability and variance. Language describes nature as it is revealed to the senses, as a dichotomy consisting first of concrete, solid phenomena, and then as existing in a variety of diverse manifestations. Language makes but one essential distinction: between the one and the many, the single and the group, the bound and the loose, the fixed and the movable, the solid and the rare, the steadfast and rickety, the whole and the disintegrated. All it sees is essentially the duality of mass and space, as revealed to an observer looking at distinctly discernible objects. Indeed, there can be no notion of space without the observation of distinctly discernible objects, just as there can be no notion of same-chronization) of simultaneous (same-ultaneous) events) rg, which is but a variant of the fundamental concept vg-vg, found in vg, then, vg, more, vg, steam, vg, steam, vg, twig, vg, twig, vg, tree, and vg, tree, and two, target. All betokening *issue*, and being related to the English *is*, *it*, and *at*.

Space is observed at once, but the passing of time is manifested as an evolutionary record only— that is, as a string of remembered (re-mem-ber-ed) events sorted sequentially and stored serially in the order experienced, giving sense to temporal *before* and *after*; *near* and *far*, in analogy with the distance between material points in space. In English, *time* is related to *same* and *tumor*. The German word for time is *Zeit* related to the English word *tide*. 'On time' means 'at the same point.' Time is not a vector, only a mere moment; memory, however, is a vector of deposited and sorted layers of recollections. Notice that the statement 'three times two' means three repetitions of the same pair, and that the 'multiplication of thee by two' means three plies of the pair, or, for that matter, two plies of the triplet.

The root דא, time, appearing first only in the book of קהלת, is but a variant of סמן, to conceal, to embed, שמן, to swell, and סמן, to symbolize, to materialize or to realize. It thus refers to isolated specific events (קאורעות) and occurrences (ארועים), embedded in the flow of life and is bereft therefore of the fundamental concept ש. On the other

hand, the root עבר, to pass, to transfer, which describes a process in time, contains the fundamental concept v to signify the proceeding of the particular events and locations recorded in memory during the progress of passing—of being at different places at different times.

Close to the root yet is the root yet to be pulverized, to grind into powder, to be in the state of particles of dirt. Related to yet are: --

ברר, פרר; גרר, הרר; דרר, סרר, צרר, שרר; מרר; עצר, אצר; עקר, אגר; עמר; ענר; סער, צער; קער; מער; נער; פרע, ברא, פרה; זרע, צרע, זרה; מרא,

all having to do with breaking, crushing, and disintegration.

Temporal duration is expressed in Hebrew by היה, a mere variant of היה, 'lived,' 'came into being,' consisting of the fundamental concept ה, of bulging or swelling into existence. For 'occurred,' Hebrew says (אָרָר הוּעָצ-עָר-היאָ, which is but a variant of אָרָדע, to tear, to rip, signifying that a detached and separated occurrence is but a ripple or a tear upon the fabric of life. The fundamental concept אין so critical to the understanding of the true meaning of הין קרע is also present in *occur* and *current*, both derived from the Latin *currere*, to run, to be alert, to be brisk, corresponding precisely to the Hebrew root אין.

The fundamental concept עד is also present in the root (אהרעם-הן-עם), to be in a rush, to hurry, to be brisk, to drive (de-rive, to rip or rive oneself apart) rapidly. It is closely related to the roots אחר מסר, to sell, to distribute merchandise.

The root family farther propagates and expands in shades of meaning by spawning relatives having the same fundamental concepts, arranged differently. For example:— גבר, גרב, בגר, רגב, רבב, הבר, בהר, רהב, חרב, חרב, ברח, כבר, כרב, ברך, בכר, רכב, רכב, קבר, קרב, בקר, ברק, רקב, רקב.

This root intimacy cannot furnish us with a detailed description of the mysterious קרובים, yet it firmly associates them with קרובים, a crowd of relatives grouped together.

The wider family circle of roots include substitutes of עב, עז, על, עם, גע as in the chains: —

גבר, דבר-זבר-טבר-טבר-צבר-שבר-תבר, נבר; גבר, גדר-גזר-גשר-גמר, כנר; כרב, זרב-סרב-צרב-שרב; כרב, כרך, כרש, כרם; קרב, קרש, קרם, קרן; רחב, רחש-רחץ, רחק, רחל, רחם; רכב, רכך, רכש, רכל, רחם, רכן; הבר, הגר, הדר, המר; חרב חרג-חרך-חרק חרד-חרט-חרס-חרץ-חרש, חרל, חרם, חרן; בהר, גהר דהר-זהר-טהר-זהר-סהר-צהר, מהר, נהר

and so on, until all the fundamental concepts אב, גע, זע, על, עם, גע have been interchanged and repositioned in the root.

The fact that all Hebrew roots are composed of essentially only two fundamental concepts implies that all Hebrew roots divide into two primary categories: those that contain the fundamental concept we and those that do not.

Consider the two seemingly unrelated roots (כשר(גע-עז-עז-אם) and רמח(גע-עז-עז-עם), and their convergence through the chain: רמש; רמש; רמש; רמש, כלש, ליבת, כרש, שכר, שירך, רכש; רמש; רמח the basic meaning of גכשר, גnown to us only from its derivative , is further suggested by the chains: —

רמח, רבך-רוח, רקח, רצח, רמס, רמל, רגם-רחם-רקם, מרח-מרק, מרס-מרט, מגר-מהר-מחר-מכר, מסר, גרם-חרם-קרם, גרן, גמר-המר-חמר, רמס-רמץ, רסק, חרס-גרס-קרס.

This intimates that right is a crushing instrument or implement.

גדר, גזר, גשר: חדר, חזר, חטר, חסר, חצר, חשר, חתר; כדר, כיר, כשר, כתר; קדר, קטר, קצר, קשר. Changing the order of the fundamental concepts within the root yields:—

גדר, גרד, דגר, דרג, רקד, רתק; גזר, גרז, זרק, זקר, רגז, רסק; גשר, גרש, שגר, שרק, רגש, רסק; חדר, חרד, דרך, דהר, רתח, רהט; חזר, חרז, זרח, זכר, רזח, רחש; חטר, חרט, טחר, חתר, רהט; חסר, חרס, סחר, סרח,

בדר, בזר, בסר, בצר, בשר, בתר, פדר, פזר, פטר, פצר, פשר, פתר; סדר, סטר, סתר, שדר, שזר, שטר, ששר, שתר, מסר, נדר, נזר, נטר, נצר, נשר, נתר; גבר, גפר, גהר, גמר.

The fundamental concept \overline{v} is a describer of form

Geometrical, physical and social ideas involving aggregation are expressed with the help of the fundamental concept ע. The root (ער-היא), to see, signifies foremost the ability to separate the features of an image appearing (up-bearing) before the eye. The antonym of אים וא רידי, מעורעד), rarefied (ערירי, ערירי, ערירי, מעורעד), rarefied (בהיר), to block, to blacken. (בהיר), the clear, bright (בהיר), rarefied (ערירי, ערירי, ערירי, מעורעד) ether that radiates from the sun and fills space to illuminate and elucidate the objects immersed in it. ערירי, is a bustling and crowded city of many houses and throngs of restless people. רידי is pus, saliva or any other freely flowing, rapidly spreading, secretion. ערידי, is bad in the sense of being corrupt (ערקוב), perverted, unsound (ארעי), flimsy, crumbling (מעורער), deteriorated, lacking integrity, and incoherent. ערידי, is a friend, free to come and go at will.

The understanding that Hebrew considers 'will,' ולא opposite being nill) as equivalent to freedom, רדור הרות, permission, רשות, lack of restraint (עצירה), and the capacity to exercise choice, finds its confirmation in the closeness of the pair ארצה-רשה. These two are part of a chain that also includes רדה-רוה, which are closely connected to רב, רך, רו, and which are but variants of ן.

Likewise, the abstract roots (בהר(עב-הך-ער), to be clear, to be bright, and בהר, to choose, to select, are but variants of the concrete root פכר, to crumble, to separate, to take apart. Indeed, only the detachable and discrete is distinct, discernible, and can be picked at will— there is no selection (בחירה) without clear choices.

The opposite states of the root אמם are actually (אתר(עז-עד) and אתר(עז-עד), obtained by replacing the fundamental concepts עם מוס, of solidity, with the fundamental concept עד, of disintegration. In this way the opposite states of the root סתם, to shut up, are ארתם, דרם-צרם, סתר.

We notice with interest that אסר-עצר, to arrest, essentially means to gather, to collect, or to congregate. Imprisonment is not freezing in place but rather holding together in a group. The prisoner, in fact, is free to move around to the limits of his confinement. The concept *ar*, of separability and diversity, is also found in: *crowd*, *concrete, discrete, root, express, form, drag, track, variant, arrest, prison, free* and *frozen*. The connection between *free, freeze* and *frost*, is provided by the fundamental concept *ar* found in all three. Only that which is granulated, fragmented and frazzled, such as frozen (קרח קרוש) hoarfrost (כפור), is free to separate, break away, and frolic to and fro.

Consider these opposite states: —

אסר: אסף, אסל, אסם; אגר: אגב, אגס, אגל, אגם; אשר: אשך, אשל, אשם; עצר: עצב, עצל, עצם; עדר: עדף, עדש, עדן; עקר: עקב, עקש, עקם; קרע: קבע, קטע, קלע, קמע; גרר: גבב, גוז, גלל, גמם, גנן; רב: צב; רר: כר; רו; פז: רם: צם, נם: זר: זב: סר: סב.

Free and sociable man has: –

חברים, מבקרים, שארים, קרובים, רעים.

His family includes: -

גוּרִים, נערים, בחוּרִים, אברכים, גברים, זכרים, בכוֹרים. Names of living beings that roam freely, or that gather in crowds, in droves, in throngs, in swarms, in prides, in herds or in flocks, contain אני as in:—

אבירים, אברכים, אורחים, אסירים, אפרוחים, אריסים, ארושות, אריות, להקות אַרְבָּה, ארגבים, בוּרים, סתם ברוּאים, בוֹגרים, בחוּרים, בריונים, בכירים, בַּכִרוֹת, בעיר, ברבוּרים, גברים, גוּרים, גרוּשים, דבורים, דרוֹרים, דיירים, זכרים, זמרים, זמירים, זרזירים, חברים, חמורים, חזירים, טירונים, טפסרים, כמרים, כפירים, מריאים נוראים, סרנים, נמרים, נכרים, עגוּרים, עוֹפרים, עירים, ערוֹדים, נזירים, נשׁרים, סרסוּרים, עוֹרבים, ערפדים, ערצבים, ערוֹדים, עברים, ערבים, עריצים, פראים, פרים, פרדים, פרוֹת בנוֹת בקר, פרגיוֹת, פרחחים, פרסים, פרעוֹשׁים, צעירים, צפירים, צפרים, צפרדעים, צרעוֹת, ראמים, רחלוֹת, רחמוֹת, רפאים, שׂרידים, שוֹטרים, שׁכירים, שֹעירים, שׁרים, שׁרפים, שׁורים, תוֹרים, תירים, תתרנים.

English retained ar in branch, forest, fern, frond, fruit, (green) grass, root, and tree.

Geometry looks upon curves (that is, carved graphs), shapes and forms as consisting of collections of points, congregating and spreading freely in strings or sheets. Hebrew conveys the same idea using the fundamental concept v, as in the roots ver, ver ver, ver

The fundamental concept $\forall r$ is also a defining element in words that refer to objects that Hebrew perceives and describes as being formed by the distribution and arrangement of material or abstract particles. Such are the following objects and geometric concepts: —

אפר, אתר, תואר, ישר, משור, רחב, ערבה, קערה, ארוך, אחור, קרוב, רחוק, קצר, צורה, שורה, רום, יגר, הר, פר, כר, כדור, קיר, חור, מכרה, סהר.

Thus, אורה, shape, is but צרורה, grossed, indicating a collection of loose particles, easily arranged to produce a resemblance. קרוב, near, proximate, is but a variant of הרוב broken, ruined, and גרוך, raked, grouped together; while רחוק, far away, is but a variant of orushed, severed, separated and distanced. קרו, short, means just what it does in English, shorn. בחר, wide, spread out, to stretch, is but a variant of hover, רכב, to ride, to wear, גרוך, to rub and disperse.

The couplet רחב חוב חוב , may be considered as an embedded root, רקב חו רח לוסספ, to be soft, to be loose, to be released. The couplet רחב חוב , may be considered as an embedded root, מגבב , a close relation of גבב , to accumulate. The couplet רחב יוח , may be considered as an embedded root, , a close relation of , רחב , to be infirm. All contributing to the sense of ברח.

A close relative of רחב, wide, is רחב, grandeur, splendor, magnificence, spectacularity. Also close to רטב; רחט, רחק, רחש, רחש, רקל, רחם, רכן obtained through the interchange of עב, עג, עז, על, עם, נעל אפח. With their representing letters. Reordering the fundamental concepts ער-הך-עב within רחב discloses additional relatives: הבר-הבר, בהר-בחר.

ארוך, long, is also but a variant of רכוך, to be soft, pliable, stretchable, distendable and extensible.

והור(הך-הוא-ער) is a mountain or a crag, הור הוא-ער) is a hole; the first is made by adding gravel, the second is made by removing gravel. אחור means the previous strata upon which the latter strata rest כור is a crucible or a crater created by removing material, while view adding material.

The root sequence, סגר, סהר, סכר shows that הַסָּה is a closed (סגור), packed, round form.

Similarly in English, 'to grate' means to scrape, a crate is a basket made of crossed scraps, a grate is full of gross craters and grottos, 'crisis' is a moment of truth, 'great' means a growing heap of crude grist or ground grain, a crust can be crushed, and 'to greet' means to integrate the varied.

זמר, טמר, ימר, סמר, צמר, שמר, תמר; תבר, תמר; כמר, תמר, נמר, נמר, כמר, סמר, צמר, שמר, ממר, במר, מתר, צמר, צמר, איז clarifying the connection between המר, צַמֶר, צַמֶר,

However, in order to dilute, abate and mitigate the rattle of a repeated ע, the Hebrew language often uses roots referring to collection and accumulation that are devoid of ע in places where roots of rending, dispersing, and separation that do contain ע, would have been more appropriate. For example, עבע, to swell or to expose, has come to mean 'to injure' even though ער דעע, to pierce, to strip, to ravage, or עד, to disrupt, are more apt descriptions of injury. It would have been more appropriate to call עָבוּלָה, and בַּרוּע by the name בָּרוּך or רַצוּץ, and בַּרוּע a הַבַּרוּך, and a בָּרוּץ is actually a הַבַּרָה the creation of a parcel, הַבִּיֹלָה, of debris, actually means the creation of a parcel, הַבִּיֹלָה. more appropriate to call גוּמָה, a pit, גוּרָה or כּוּרָה.

A better name for the tool we call קרשון is קרשון, from the root קרש, to rip, with an אָר אָר אָגרפה, that is present in the names of the other gardening tools אָר מערד, which are designed to pierce, puncture, perforate, breach, rupture, break up, and rake the hard ground. We use the name פּטיש, hammer, for the pounding and crushing implement instead of the more descriptive names בּטיד.

Otherwise, we could call כתיש by the name כתיש from the root כתיש, to pulverize, or לטיש from the root פתיח לשיש, to forge, or בגיש from the root פתיח, or שניש from the root פתיח פתיח פתיל, to pry open, or פתיח the root פתיל, to smash, or פתיל to smash, or פתים from the root פתים, to stuff, or פתים from the root פתים, to extend.

Looking at roots with and without $\forall v$ helps us to compare the nature of their state as compact versus dispersed, as in the pairs:—

חוֹמָה/חוֹרָה, במה/רמה, שָׁמַיִם/רָמַיִם, ארץ/אמץ, ערבה/עקבה, אלון/ארון, עבד/עבר, עקד/עקר, בטח/ברח, בגד/ברד, בהט/רהט, להט/רהט, חשב/חרב, יבש/ירש, יבש/רפש, יפה/ירה, יפה/רפה, יקד/יקר, יהד/יהר, כמס/כרס, לכד/רקד, מלח/מרח, מלך/מרך, נהל/נהר, פטם/פרם, פקד/פקר, צנם/צרם, פמט/פרט, לביבה/רביבה, צמח/צרח, סמך/צרך, כנע/כרע, שׁמשׁ/שׁרשׁ, שׁקד/שׁקר.

Quadriliterals

The vertical nature of Hebrew

Hebrew is a primal language issuing from the depth of the human soul and has no 'origin,' מקור, in any other language. The etymology of the Hebrew language is an internal affair. The basic understanding of the Hebrew root is achieved by descending into its primary components more than by relying on the peculiar nature of its relatives.Some examples will clarify this. There is no metaphorical relationship whatsoever between בָּגִידָה, garment, coat, cloak, and בְגִידָה betrayal. In other words, בַּגָרוּ to confront, and (בָּגָרעָר-גַע-עָד), to conspire or to join the opposition.

The arid region in the south of Israel, called the נגב(ערעיבעיב) from the root (גב(ערעיבעיב), has little to do with גָקָב, קָנֶב, קָנֶב, קָנֶב, קָנָב, קָנָב, קָנָב, גָקָב, all meaning 'loftiness,' as does the Arabic root جب to be noble. Greater insight into the basic meaning of גנג is gained by considering the root as being the amalgamation of the three biconceptual roots גבע (נקעי), נבע, גבע consisting of גנב, גבע-עב, גבע, יבע, גבע, גבע, גבע any order, namely: גבע, גבן; פנק; בחן, פגן; פוק; בחן, פגן, lifting, growing, amassing and beautifying. גנבה, נקגן, stal, stal, and deal.

Likewise, הום-עור does not mimic the sound אחור, בוק-בוק is not רקבוק, the bird named הסידה is not pious, and שֵׁמַשׁ is not the composition שֵׁם-אֲשׁ

However, to express colors and feelings, Hebrew, like other languages, has no choice but to revert to universal similes. Indeed, ירוק, green, virid, is the color of growing grass. אדום is the color of blood (in English, *red* is related by degrees to *rose*, *radish*, *rod*, and *root*, which appear in Hebrew as דהוב (ראש is the color of gold, and root, which appear in Hebrew as בהוב (ראש is the color of gold, color of gold, לבן, white, is related to כפינה), from which we have הנכור (כפינה), cheese. לשהור, single, is related to diffuse. Further, שהור שלור is also related to הנום (crushed. Further, black, is related to many is related to many is related to many is also related to many black.

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to שקור, flimsy and frail, not true, not אמת, אמת.

The opposite states of white are: -

שׁכוֹב, שׁחוֹך, שׁחוֹד, שׁחוֹז, שׁחוֹט, שׁחוֹט, שׁחוֹס, שׁחוֹן, שׁחוֹם, שׁחוֹן. Negative feelings, such as תָאָבָה, פָאָב, אֵיבָה, פָאָב, אֵיבָה, פָאָב, אָיבָה, פָאָב are metaphorically described as the soul. אַגעון, יגיעה, מועקה are metaphorically described as the weighting down of the soul. Positive feelings such as הַתְקוָה, שָׁמְהָה metaphorically described as the expansion (צמיהה) of the soul. כעס is but a form of

Tools are often named according to their purpose, or occasionally after their shape. Thus שטיש, hammer, derived from the root כמש , related to כתש, to pound, is indeed a pounding or packing tool. כך, spoon, is so called for its resemblance of the palm of the hand.

Names of the months may come from the stage of the vegetation growing in that season. שבטים is the month of the green blades, שבטים. The month of the time of buds and sprouts, ניצוים.

The root as a state

דבר-שבר, טבר-שבר, צבר-שבר, חור-שבר, גור-שבר, גבר-שבר, כבר-שבר, נבר-שבר, נבר-שבר. Notice the *ar* in: *scratch*, *shards*, *shear*, *score*, *mar*, and *smear*.

Still deeper insight into the meaning of the root שבר is gained by looking at the fundamental concepts making up the root, taken two at a time as coupled pairs. The couplet שבר in the root שבר appears as the independent root שבר, to capture, to catch, to grab, to rob, to pillage, to plunder. The couplet בר in the root שבר appears as the independent root שבר, to tear apart, or ברה to sort (i.e. to arrange the seared and shorn in a series.) The couplet שבר fo the root שבר appears as the independent root השר, to remain, to tarry, to linger, to saturate, to drench; or the root שר be resilient, to gather strength. From this last root we have the names שריר muscle, tissue, and -wire, umbilical cord.

The root (נעענע-זע), to plant a tree, which is a member of the family נבע, נטע, נבע, נטע, is certainly not designed to describe the complex horticultural process of setting a plant in the ground. This is left to the imagination, which recalls memories of such past events and experiences. All that is expressed in ענעי, through its components us that the tree is now actually נטיע, standing erect. The fundamental concept us of its short for אנאר ליד ליד א to be new and comely, to be fine; and the fundamental concept us of such as the kindred root (ענע-נע), is used more specifically for 'gushing,' while נקעונע-גע) is used more specifically for 'dislocation'.

The root שתל is also 'to plant'. The fundamental concept ש in the root שתל signifies elevation, and the repeating וע-עז signifies shooting up. Thus שתל exactly what its primary components imply—a tree rising up. We may also look upon the root של as incorporating the three roots שתר to draw out, שלל to remove, and שתל to pile up. A close relative of שתל is שתל to strive, to endeavor, to make an effort. Some other relatives of שתל שבל, שכל, שכל של של של work are endowed by usage and context. ערל ווער is closely related to גדל איל גדל is closely related to איל is that of virtue. In this way, קצין גע-עו-עז, to cut, to chop, to slice, or to dice, describes only the aftermath of the cutting in the material being heaped and piled - קאה וצין. Some relatives of this root are: –

כסס-קשש, בצי-פצי, חצי, לצי, מצי, נסס-נצי, גבב-חבב-קבב-הבהב, גוז, גלל-כלל, גמם, גנן. Likewise, the root (חמר רמח) (חמר איד רמח), to smear, refers not to the specifics of the smearing action, but rather to the property of the material used, being evidently soft and pliable, as indicated by the presence of the fundamental concept vi in the root. Similarly in English, only the loose can get lost, be least, be last, or be leased. The root מרא does not aspire to describe the complex process of gathering speed and taking off, but rather the state of a bird floating freely in space, מרא *Raum* in German, *room* in English. Some close relatives of the root that also describe states of dispersion are:—

Notice the ar in: create, sunder, disperse, scatter, strew, separate, different, roam, earth.

Inversion of root meaning: Positive and negative

Language expresses the negative as the opposite of the positive—that which is possessed. The meaning of 'nothing' can only be expressed as, 'not a thing' or 'not having.' Hebrew acknowledges that things do not vanish but are rather transformed or displaced—that a body can not be at two places at once. This explains the surprising vocal affinity of (אבדרעב-עד) (related to ב, a branch, and בדה, to invent), to be lost, to perish, to be out, to be removed, to be deprived, and עבד , to produce, to collect, to invent, to bring out, and עבד , to bind (to find). In English 'lost' means 'is loose somewhere else'. So עבלם , ווא בעלם , a corner, a protruding (פוֹנֶה) pin, and קבָּה, he vacated, he collected in one corner.

Emptiness, דיקנות, is achieved by evacuation, הַדָקה of the brittle, רקוּק. The root שׁלל to negate, is a mere slight variant of תלל, to heave. It is only a different viewpoint as to who loses and who gains. Loot, שׁלל, is collecting and amassing, תלל, another person's loss. Similarly, סוללה means to dangle and סלל, from which are derived סליל means to pile, while צלל means to dive.

The root שׁתת (composed of שׁאה is closely related to the root שׁת, to found. So, שׁר robbery, is but צוֹד, catching and gathering. English uses *rob*, related to *rip*, *reap*, and *rape*, for שדד שדד. It is interesting that the English verb 'to rove' corresponds to the Hebrew verb שׁטשׁ Yet conceptually, there is nothing between שׁטשׁ The שׁטשׁ The שׁטשׁ the robber, is a ripper and a reaper, but he is not a שׁטשׁר, a rover. The שׁוֹד is rather a בוֹד בוֹד a collector. A rover is a drifter who ripples freely and raptly on the surface of the earth.

The root נבלונע-עב-על, means to be lofty and noble, as in the large musical instrument נבלונע-עב-על, nabla, harp, or cask. But נבָּל is mean-spirited, and גַּבָל is a fallen cadaver. Also, נבָל היא-על) is a giant, but (גַּבָל הוּא-על) is shriveled. Whatever falls, נכלונע-עף-דיא-על), upon the ground, also rises above it just by lying upon it. Thus is not the process of rushing down, but rather its end result—being on, על, the ground. Such is the relationship in English between *step, steep, stop, stoop*, on the one hand, and *deep, top, topple*, on the other.

(so near to עקור and עקור, while, means the compilation of previous layers, while אחור, hole, grave, means a reversed הר ס פר קר רס פר קר created by carving and removing layers of gravel. אָקָר means the essence (the word actually means 'to be the extract'), but אָקָר means barren. גאה means to be lofty, but אָק is a depression or an inverted summit. איז means sunk, submerged, absorbed, but השׁתִע means invested, and השׁתִע means settled down. השׁתִע praise.

Negation is also expressed by בַּלועב-על-את-היא), בְּלְיועב-על-היא), בְּלִינעב-על, בא-על, שיא, בָּלְינעב-על, בא-על), but.

Roots of opposite state מצב-צבירה

Our appreciation of the sense of the Hebrew root is enhanced and enriched when we look at them amidst their relatives, each of whom may have acquired a different shade of meaning over time and with use. Consider, for example, the company of roots the same order, and therefore have the same basic meaning. Among these roots, גדל, לכל, כשל, כשל, כתל, קטל be big, is the most concrete, leading to such connections as between גדל, size, and לגדל, a large wall. This root association also informs us that גּדָלָ גול, is essentially גַּדָלָה, a thriveling. In this way we understand that בָּשֶׁל like בָּשֶל, is a blockage or a big setback. In לשל setback is final.

These roots are further linked to more distant relatives, straying thereby ever deeper into the root stock of Hebrew, and encompassing ever wider semantic fields. For example:—

גדל, גדף, גדש, גדם; גדל, גבל, גחל, גמל; גדל, בדל, שדל, נדל; גול, גום; גול, פול, מול, נול; כסל, כסף, כסח, כסם; כסל, כבל, כחל; כסל, חסל; כשל, כשף; כתל, כתף, כתש, כתם, כתן; כתל, פתל, שתל; קטל, קטף, קטם, קטן; קטל, בטל, נטל; קטל, קבל, קהל, קמל.

Here are some examples:—

אבן/ארן, אלון/ארון, אדון/ארון, אבש/אבר, אגז/ארז, אדש/אדר, אחד/אחר, ארך/אנך, במה/רמה, הַקְהוּק/הָרְהוּר, חוֹר/חוֹף, חוֹר/חוֹם, חוֹר/חוֹם, אמין/ארץ, אמש/אמר, אצל/אצר, אבס/אבר, בטח/ברח, בטח/רתח, עָצַל/עָרָל, עָמַל/עָרֵל, גבע/גרע, גז/גר, גוֹנֶל/גוֹרֶל, גמם/גרר, גדם/גרם, גדש/גרש, גדל/גרל, גדל/גדר, דחק/רחק, חלב/חרב, חצב/חצר, חמק/חרק, חשׁק/חרק, חרא/חטא, חשׁם/חרם, חשׁם/חשר, חתם/חתר, ילד/ירד, ידע/ירע, יפה/רפה, יקד/ירד, ישׁן/רטן, ישׁר/ישׁב, בְּשָׁלוֹן/בִּשָׁרוֹן, לחם/רחם, מהר/מהל, מרא/מצא, מרא/מלא, מרח/מתח, מלח/מרח, מלך/מרך, נוֹב/נוּר, נתב/נתר, נצין/רצין, כפל/כפר, כפת/כרת, כתף/כתר, כתל/כתר, מצין/רצין, נצח/רצח, סמך/סרך, נוֹב/נוּר, נתב/נתר, נצין/רצין, כפל/כפר, כפת/כרת, כתף/כתר, כתל/כתר, מצין/רצין, נצח/רצח, סמן/סרך, עדד/ערר, עקד/עקר, ערב/עקב, עמל/ערל, עמל/עמר, ענג/ערג, פגם/רגם, פגם/פרם, נטס-פרם, פטם/רתם, פגש/פרש, פנש/פרע, פסק/פרק, פנק/פרק, פעל/פער, פתע/רתע, פתע/רגע, פרא/פלא, צדד/צרר, צוק/צוּר, קדם/קרם, קפין/קרין, קטל/קטר, קשׁשׁ/רשׁש, קום/רום, רבע/קבע, שוֹדֵד/שׁוֹרֵר, שׁמד/שׁרד, אַמָּדִאַרָר, שׁמד/שׁרָד, שׁמד/שרר, שַרַזין, קטל/קטר, קשׁשׁ/רשׁש, קום/רום, רבע/קבע, שוֹדֵד/שׁוֹרֵר, שׁמד/שרד,

Such pairs are also common in English. Here are some examples: -

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arc/ask, bake/rake, boot/root, bark/bask, bleak/brick, come/core, creep/clip, daze/raze, deem/deer, teem/rim, dip/rip, seek/reek, sip/rip, saw/raw, take/rake, tall/roll, and thing/ring.

The Grammar

Vowelizing by diacritical markings

Vowelization, אנקוד, has two essential purposes in Hebrew. First, to add vocal variation and coloration to names, as in the lively readings הסוס, הרגול, נַמֵר סוס, הרגול, נַמֵר אני, אנהנו be dull, סוס, הרגול, נַמֵר אני, אנהנו be not with the personal pronouns, אתה, היא, אנהנו in order to refer the action described by the root to the actors and recipients involved, thus creating the essence of what we call grammar.

Pronouns in names

Gender

Natural gender, or sex, is distinguished in Hebrew by the addition of היא, הוא, as in:—

אִישׁ-אִשָּׁהוּאישׁ-היא), מֶלֶךְ-מַלְכָּהוּמלך-היא), גְּבִיר-גְּבִירָהוּגביר-היא), גֶּבֶר-גְּבֶרֶתוּגבר-את), אָחוֹתוּאח-הוּא-את), אַכְזָר-אַכְזָריתוּאכזר-היא-את), רַחַמָן-רַחַמַנִיתורחמן-היא-את).

A dual form is rare but is occasionally encountered: יוֹלָדָת(יוֹלד-אָת)-יוֹלָדָה(יוֹלד-אָת)-לְהָבָה(להב-היא). English occasionally marks the feminine by the appendix -en (a curtailed one ? as in old-olden, an old one, Rome-Roman, the one from Rome), as in the pair fox-vixen.

Living beings may be named differently if they are of a different sex, and so we have in Hebrew the pairs המור-אתון, גמל- בָּרְרָה In English: cow-bull, cock-hen, dog-bitch, ewe-ram, horse-mare.

As for non-natural (grammatical) gender, it stands to reason that the strange classification of nouns as masculine, feminine, or neuter, is a relic of a general grammatical or phonetic device originally intended to smooth the language or to prevent confusion as to the object being described. Consider the Hebrew sentence אָלביא הגרול א הלביא הגרול, which can be translated as either, 'the roar of the big lion,' or 'the big roar of the lion'. This ambiguity is absent in שאגת הלביא הגרול, in which carly refers to the lion because (שאגת הלביא הגרול is feminine. So, שאגת הלביא הגרול is clearly the big roar of the lion, because (לביא הגרול is masculine. On the other hand, in שאגר הלביאה הגרול the size referred to is certainly that of the lioness, because (אירי-לביא-היא) is masculine.

The designation of nouns as masculine or feminine could thus have been arbitrary, its purpose having been to link them to their corresponding adjectives through the device of adjectival gender agreement. Thus, it is possible that originally objects were gendered interchangeably, according to need, in order to connect them to the adjectives describing them, as in קול הסערה הגרול, 'the strong din of the storm,' as opposed to קול הסער החדה 'the sharp shrieking of the storm,' around the big lion,' as opposed to הסער העמת הלביא הגרול 'the big mane of the lion'. Indeed, many Hebrew nouns, like שאנה and הסער, שאנה in dual gender form, such as:—

אָהב-אָהבה, אור-אורה, אֶמֶת-אֲמִתָּה, גבע-גבעה, גוף-גוּפה, דיר-דירה, זעף-זעפה-זַעֲוָה, זעק-זעקה, זקָׂן-זִקְנָה, זֶלֶּף-זְלִפָה, חוֹם-חוֹמֶה, חֶמֶד-חֶמֶדֶה, חוֹתָם-חוֹתֶמֶת, טוּב-טוּבה, יד-ידה, יער-יערה, ים-ימה, כוּר-כירה, להב-להבה, לַחַ-לַחָה, ליל-לילה, מַסְמֵר-מֵסְמֶרָה, נָגֶף-מַגֵּפָה, נהר-נהרה, נקם-נקמה, סער-סערה, עול-עולה, עַנָב-עֲנָבָה, ענן-עננה, עסק-עסקה, עץ-עצה, עָצֶב-עַצְבוּת, פים-פימה, צוּר-צוּרה, קער-קערה, רעם-רעמה, רגש-רגשה, שגר-שֹּגַרה, שוֹר-שׁוּרה, שִׁיחֵה, תוֹם-תוֹמה, תוֹלע-תוֹלעת.

others, like קולי קולה vanished, but in so doing left behind the vestige of קולי קולה instead of

the formal קולים.

Possibly, אָלְכּוּ(מלך-הוא), 'he-king,' once designated the male, in the same way that מַלְכָה(מלך-היא), 'she-king,' now designates the female.

Foreign words ending in are systematically considered feminine, thus גונדולה יפה, but גונדולה.

Gender endings are also used to create nouns of similar, yet distinct, meaning in their masculine and feminine forms, such as גבלוט, acorn, א בלוטה, gland, and בלוטה, projection, all inflected from the root בלטער-על. Also: —

אַם-אם-אָמָה, אִישׁ-אָשָׁה, בָּדִיקָה, בּזִיקָה, בּזִיבָה, בטן-ביטנה, גָּבַע-גִּבְעָה, דִיר-דִּירָה, הָסְבַם-הַסְבּמָה, וָמֶר-וִמְרָה, זֶרֶם-וִרְמָה, חֶבָר-חֶבְרָה, חֵקֶר-חֵמִירָה, טֶבַח-טִבְחָה, יָדַע-יִדִיעָה, יער-יערה, יָבַךּ-יִבָכָה, יֶתֶר-יִתְרָה, כוּר-כיוֹר-כירה, לַב-לִבָּה, מוְבַק-מוְרָקָה, מַסְמֵר-מַסְמֵרָה, עֵזֶר-עָזָרָה, נַהַם-וְהָמָה, נחל-נחלה, סיר-סירה, פָּרֶז-פּרְצָה, פַּתַז-פּתְחָה,

צֶדֶק-צְּדְקָה, צוּק-צוֹק-צוּקה, ציץ-ציצה-ציצית, קוּר-קוֹרה, שִׁיחַ-שִׁיחָה, שוּר-שוּרה, ראשוֹן-ראשוֹנה, תָקַע-תְקִיעָה. אדמה is rendered feminine through the addition of a final ה, not because it is the

'mother of life,' but in order to differentiate it from אדמה, man. אדמה is earth, not a she-man, בת-אדם.

As this complicated grammatical device receded, it left behind the natural gender classification, as well as distracting remnants like שָׁמָשׁ גדולה ויפה distracting remnants like.

Adjectival pronominal suffixation

Appending the pronouns אני, היא, הוא, את can turn an adjective into a noun:— הַחַחְתִּי(תחת-היא), תָּחְתִּית(תחתי-את), תַּחְתּוֹנִית(תחת-הוּא-הן-היא-את); עָבְרִי(עבר היא), עָבְרִיָה(עברי-היא); אַדְמוֹנִי(אדם-הוּא-הן-היא), אַדְמוֹנִי(אדמוֹנִי-את).

ירגל-היא) is 'a foot,' (בְּלִי(רגל-היא), as an adverb, means 'on foot,' as a noun, it means 'pedestrian,' 'walker,' רָגל-היא-את, is a small leg or peg. The inflected form of רָגָלי(רגל-אני), is 'my foot,' ארגל שלי '.Yet, וב-היא-עו), but rather a heavy (בָבַרוּגע-עב-היא-עד) vat, as is the מַבַבּרוּעם- a kind of ponderous, אין אין, pan.

In the diminutive formations: —

חָמֶשׁ-חֲמִשִׁית(חמשׁ-היא-את), תֵּל-תְּלוּלִית(תלוּל-היא-את), שְׁלִיל-שְׁלוּלִית(שׁלוּל-היא-את), צַלַחַת(צלח-את)-צְלוֹחִית(עז-על-הוּא-הך-היא-את), יָד-יָדִית(יד-היא-את), פַּף-פַּפִּית(כף-היא-את), פַּר-פָּרִית(כר-היא-את), פַּח פַּחִית(פּח-היא-את), נוּרַה(נוּר-היא)-נוּרִית(נוּר-היא-את)

the feminine ending היא-את is believed responsible for the perception of the lesser size of, say, בַבָּית, a tea spoon, as opposed to בַבָּי, a soup spoon.

Consider also the formation of the two portentous Hebrew words, based on the fundamental concept על האמאטילעם-גען עם-גען.

Doubling a root intensifies its sense, as in (אד הוא-הך-ער-הוא-ק-ער הוא-ק-ער איס, a softy, a (male) weakling, and (רכרוּכית(רכרוּכית(רכרוּכית), for a female. Likewise we have (אד מדם הוא (he is) reddish (red-is), אד מדם היא (she is) reddish, ירקרק (not ירקרק היא), he is greenish, and (ירקירק - אדום אדום, since 'reddish' in the sense of light red, would have been rendered in Hebrew מְעֵין אדום or מַעָין אדום.

The plural

Appending the fundamental concept, $\forall v$, of amassing, is used in Hebrew to indicate the masculine plural, as in:—

הוא-הַם(היא-עם), אֶבֶן-אֲבָנִים(אֶבֶן-עם), יֶלֶדיים(יֶלֶד-עם, יֶלֶדים), דב(עד-הוּא-עב)-דְבִים(אַבן-עם). Notice the delicate phonetic adjustment in the pronunciation of יַלָדים versus יֵלָדים.

The Hebrew affix varphi finds a counterpart in the Latin superlative marker *-ma*, as in *ultima*. It is found in English in the gradation, *mean*, *minimum*, and also in *most* (mo-est)—the highest grade of *much* and *more*. We can think of *most* as composed of the fundamental concepts var, va

Feminine names are pluralized by the addition of הוא, היא, את, as in: –

ַלַבּ(על-היא-עב)-לְבּוֹת(לב-הוּא-את), פֶּה-פִּיוֹת(עף-היא-הוּא-את), יַלְדָה(ילד-היא)-יְלָדוֹת(ילד-הוּא-את), פַת(עב-את)-בָּנוֹת(בן-הוּא-את), חֶמוֹת(חם-הוּא-את)-חֲמָיוֹת(חם-היא-הוּא-את), אָחוֹת(אח-הוּא-את)-אֲחָיוֹת(אח-היא-הוּא-

את), דּוֹדְהוֹדִהיא)-דּוֹדוֹת (דוֹד-הוּא-את), רַחֲמָנְיֹת (רחמן-היא-את)-רַחֲמָנְיוֹת (רחמן-היא-את). But we also have the surprising plurals אָב-אָבוֹת, אָשֶׁה-נָשִׁים. The suffix, ווּת, of feminine plurality has given the connotation of עוד.

Commonly English does it is by appending the letter s (short for as, is?), as in

cat-cats, pock-pox (pocks,) or less commonly with the addendum -en (short for one?) as in ox-oxen. From Latin English inherited, fungus-fungi, radius-radii. Interestingly, sheep is both singular and plural, and so is its Hebrew equivalent צאון.

In the complex form of an inflected noun, the plural indicative suffix is shortened by dropping the additive עם. Thus we have, אָרְגָוַנוּ(ארגז-אנוּ), our single box, and ארגזימנוּ(ארגז-היא-עם-אנוּ), our many boxes, instead of the formal, אָרְגַוינוּארגז-היא-אנוּ). An ancient, simpler, but grammatically collusive, plural form is hinted at in (גָּבְמולוֹהָי(תגמוֹל-הוּא-היא) or (תַּבְמולוֹהָי(תגמוֹל-הוּא-היא). Plural formation by altering the base form is also used in the languages of the West. So in German, *Topf*, pot, *Töpfe*, pots. So also occasionally in English, *goose* for one, *geese* for many.

Adjectival agreement in number is practiced in Hebrew for good rhythmic flow even in cases where the ending יים may not be an obvious indicator of plurality, as in the pleasant versifications. אלוהים אדירים, מים רבים, חיים טובים, In יום-יוּמָם(יוֹם-עם) the repeated y indicates duration.

The plural form may also be gendered willfully to achieve a fitting inflectional articulation and agreement within the sentence, as in the following examples: —

וְהָנֵה אֲנַהְנוּ מְצַלְמִים אֲלָמִים אָלָמִים אָלָמִים אָלָמִים אָלָמִים אָלָמִים אָלָמִים אָלוּם-עם) פּתוּך הַשָּׂדֶה, with masculine mode to mimic the אַלוּמה. And yet, the next part of the sentence reads

יוְהְנֵה קַמָּה אֲלָמֶתִי(אלוּם-אתי) וְגַם-נִצְּבָהוּנצב-היא), with אלומה inflected in the correct, feminine mode. Although פתרון is feminine, we find

הַלוֹא לֵאלהִים פּתרנִים(פתרוֹן-עם).

Although גליון is formally feminine, we find

וְהַגְּלְינִים(בא-היא-גליון-עם) וְהַסְּדִינִים(בא-היא-סדין-עם). Although כנוֹר is formally feminine, we find הַמוֹן שִׁירֵיָה(שׁיר-היא-אך) וְקוֹל כְּנּוֹרֵיָה(כנוֹר-היא-אך).

Although מעין is formally feminine, we find הַמְשַׁלֵּחַ מַעְיָנִים(מעין-עם) בַּנְּחָלִים(בא-נחל-עם) בֵּין הָרִים(הר-עם). Although דרך is formally feminine, we find

הַאֵל תַּמִים דַּרָכּוֹ.

The dual

The dual form for paired objects is indicated in Hebrew by an extra היא as in:— שָּׁפָּה-שְׁפָּתַיִם(שֹׁפּה-את-היא-עם), שֶׁנָה-שְׁנָתָיִם(שׁנה-את-היא-עם), יָד-יָדַיִם(יד-היא-עם), לְחִי-לְחָיַים(לחי-היא-עם), עַיַּן-עֵינַיַם(עין-היא-עם).

Construct state (Referral)

Referral, סמיכה, is also expressed with personal pronouns, as in, (אלפים אלפים, in which the first שָׁרֵי וח היא marks the plural, and the second איל refers היא שׁרִים to שׁרִים השׁרים. In this way, קרַעה סוּסִיסוּס-היא-היא פָרְעָה, Pharaoh's (Pharaoh is) horses, is the construct state form of, אל פרעם שׁל פרעה, אום ארים, the horses of Pharaoh. This longer form uses the connecting possessive particle שׁל שבא, and the definite article האלפים המוצא מוער אוש אווא און פרעה איריים האלים, is concisely rendered, הסוסים(היא-סויס), is concisely rendered, הסוסים היא היא פרעה, אראי און פרעה, איריי איז פרעה, אלפים איריים אווא אווא אווא אווא אווא אווא אלפים אירים אירים אווא אווא אווא אווא אווא אווא אווא גערויי איריי איריים אירים אירים אירים אירים אינים אירים אירים אירים אירים אינים אירים אירים אינים אירים אירים אינים איני

Similarly, in English, a substantive may be turned into an adjective by adding the suffix *-en*, short for *one*, as in *gold*, אין *golden*, של *inc*, *wood*, של *inc*, *wooden*, של של .

Notice the different functions of the terminal ', in the forms (אָבִי(אב-אני), my father, and (אָבָי(אב-היא), the father of הוא זס היא זס.

The pliancy of Hebrew, exercised in its quest for a pleasant and harmonious pronunciation, is further exhibited in the construct state formations:—

שַׁנָה-שָׁנַת(שׁנָה-אָת), חֵמָה-חַמַת(חמה-את); שֶׁכַח-שְׁרָחֵי, קֹמֶז-קְמְצֵי, קֹדֶש-קְדְשֵׁי, אֲגַם-אֲגְמֵי, אָהֶל-אָהֲלָי. In this manner, (לדאי)-צפון על-(היא)-צפון, northward, is concisely rendered אָל הצפון (אָל-אָהָצָם), without the preposition אָל ז ה דhe inference that the terminal ה in in ה is essentially a posterior pronoun acting as a definite article, is supported by the

Hebrew may not recognize the abstract, indefinite idea of 'toward(to-ward),' and therefore, אָרְצָה מָר גָּרְצָה מָר , can only mean, 'behold their lord was fallen down dead on the earth'. All we can say is that, factually, Eglon was seen by his men prone on the ground.

Suffixing the π locative in Hebrew is akin to prefixing in English the adverbial *a*-, as in *a*-foot, *a*-bate, *a*-bed, *a*-dorn, *a*-loft, *a*-kin, *a*-live, *a*-mass, *a*-sleep, *a*-wake; or the adverbial *be*-, as in *be*-long, "to be linked, *be*-cause, to be the cause," *be*-fore, "to be in the front of," *be*-half, "to be of help," *be*-reft, "to be ripped," *be*-side, "to be by the side".

Thus, ה-המגמה, ה-הידיעה, ה-המגמה, are each but a shortened היא

Formal paradigmatic rigidity is commonly yielded in Hebrew for the sake of pronunciation ease and harmony. Hence, the distinctive plural and סמיכה constructions: — סמיכה גַּבָּרִי גָּבָרִים, גָּבָר, גָּבָרִים, גָּבָר, גָּדָל, גָּדְלִים, גַּיַס, גָּיָסוֹת, גַּיס, גַּיסוֹת; דָּגָל, דְּגָלִים, בָּגָלי, דְּגָלִי זַיִת, זַיִתּי, זַיִתּי, זַיִתּי, זַיִתִי, בָּאָרִים, אָבָרִים, גָּבָר, גַּדָלָי, גָּדָלִים, גַּיָלים, גַיָּסי, גַיסוֹת, גַיּס, גַיסוֹת; דָּאָים, יָבָאיים, בָּגָלי, דָּגָלִיזיזית, זַיִתּים, יוֹם, יְמֵי, זָרָא, יִרָאָיי, יָרָאָי; בָּלָבוּת, בַּלְבַתּ, בַּלְבוּת, מָלָדָ, מְלָבִים, מָלָדָה, מָלָבָים, גַּלָרָים, צָּמָדוֹת; צַמָת, צַמָתַים, צַמָתי, צַמָתַים, צַמָתַי, בָּאָים, רָאשׁ, רַאשָׁים, ראש, דַאשִים, צַיר, אָרָים, אָיַרים, אָבין, גַּמָדַת, צַמָּדוֹת; צַמָּתַים, צַמָתוֹת; זַיַמים, גַּמָתַר, בַּלָבוּת, בַּלָבוּת, בָּלָבוּת, בָּלָבוּת, בָּלָבוּת, בָּלָבוּת, בָּלָבים, הָלָבים, בָּלָבים, בָּלָבים, בָּלָבים, בָּלָרָים, בָּלָבים, בָּלָבים, בַּלָבים, בַּגָרָים, בַּלָבים, בָּלָבים, בַּלָבים, בַּלָבים, בַּלָבים, בָּלָבים, בַיָּבים, בַּיַבים, בַיָּבים, גַיַרָים, אַיַרָרָים, בַּלָבים, בַּירָבים, בַּבָּבים, בַּלָבים, בַּלָבים, בַּלָבים, בַּלָבים, בַּלָבים, בַּבָרַים, בַּאָבים, בַיָּבים, בַיָּבים, בַיַרָבים, בַּלָבים, בַיַרָבים, בַיַרָּים, בַיַרָבים, בַיָּבים, בַיַרָבים, בַיָּבים, בַּאָבים, בַיָּבים, בַיַרָבים, בַיַרָבים, בַּיַבים, בַיָּבים, בַיָּבים, בַּאָבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיַבָּים, בַיָּבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיָּבים, בַיַבָּים, בַּיַבָּים, בַּיַבָּבים, בַּלָביוּה, בַּבָרַים, בַּבָרים, בַּבָבים, בַיַבָּים, בַּיַבים, בַּיבַים, בַיַבים, בַיַים, בַיַים, בַיַיַים, בַיַיַים, בַיַים, בַיַבַים, בַּיַבים, בַיַביים, בַיַרַים, בַיַבַים, בַיַבַים, בַיַבַים, בַיַביים, בַיַיביבי, בַיַביַים, בַיַבַיַים, בַיַבַים,

Vav consecutive and copulative

The fundamental concept עב-בא is prefixed in the form -1, to indicate a succession (בא) of events. Thus (אָבָל(בא-היא-גדל), means, 'and it came (בא) to pass that he grew up.' Similarly, (אָביל(בא-מת-אנו), אָם יְמְתָנו וְמָתְנוּ(בא-מת-אנו)) but die'. Also, (בא) but die'. Also, (גאָשָׁיבָה(בא-אני-שָׁיב, ישׁיבה(בא-אני-שָׁיב), is, 'and I will appoint,' (גאַשָּיבָה(בא-אני-קים), is, 'and I will restore'. Repetition may be exercised for poetical impact, (גער מון בא-רכב) ווא גער אני-קים).

Pronominal suffixation

Possession relationships are indicated in Hebrew by appending to the name of the possessed object a compact form of the personal pronoun of the owner. Consider the noun (סוס (גער הוא-עו), in which we look upon the median הוא as referring to the horse itself. It is augmented thus:—

סוּסִי(סוּס-אני), סוּסֲדְ(סוּס-כְה), סוּסֲדְ(סוּס-אֵך), סוּסוֹ(סוּס-הוּא), סוּסָהּ(סוּס-היא), סוּמַנוּ(סוּס-אַנוּ), סוּסְכָם(סוּס-אכָם), סוּסכן(סוּס-אכן), סוּסַם(סוּס-הם), סוּסַן(סוּס-הן).

Similarly: –

אֶל-אֵלִינוּ(אל-היא-אנוּ), אֵין-אֵינֶנוּ(אין-הוּא), אֵת-אוֹתָנוּ(הוּא-את-אנוּ), בֵּין-בֵּינֵינוּ(בין-היא-אנוּ), יַש-יֶשְׁנוֹ(יש-הנוֹ), כּּל-כֻּלְנוּ(כל-אנוּ), לְ--לָנוּ(על-אנוּ), מֵן-מִמֶנוּ(עם-היא-עם-היא-אנוּ), עַד-עָדֵינוּ עַל-עָלַינוּ(על-היא-אנוּ), עִם-עִמֶנוּ(עם-אנוּ), שֶׁל-שׁלנוּ(שׁל-אנוּ).

By this device of pronominal suffixation, we construct the nominal variants: — אַנוֹשׁוּת(אַנוֹשׁ-הוּא-עוּ), אָנוֹשׁיוּת(אַנוֹשׁ-היא-אָת), אָנוֹשׁוּת(אַנוֹשׁ-הוּא-אָת), אָנוֹשׁיוּת(אַנוֹשׁ-היא אַת); קָדָם, קַדְמוֹן(קדם-הוּא-נע), קַדְמוֹנִי(קדמוֹן-היא), קַדְמוֹנִיוֹת(קדמוֹן-היא-הוּא-את), קְדָמָה(גע-היא-עד-עם-היא), קַדְמוֹת(קדם-הוּא-את), קַדְמִית(גע-היא-עד-עם-היא-את), קַדְמַת(גע-היא-עד-הוּא-עם),

Pronominal affixations produce out of the root (קצר(גע-עו-עד), to harvest, to crop, to shorten, to curtail, to trim, to truncate, the nominal variants: (קציר(גע-עו-היא-ער), harvest, for a short cut, קציר(גע-היא-ער), synopsis, (קציר), a short cut, קציר(את-קציר), the harvesting of. From the root (קליער), pass by, pronominal affixation produces the nominal

variants: אָקוּרָיאר-קר-על-היא-עף, substitute, אָקוּליף(אר-קר-אי-על-היא-עף), replacement, exchange, אָקוּרָאר-קר-איא-עף-היא-עף-היא), suit, costume, change of clothes. From the root קדש we have, on the one hand, אָקַרַשָּׁה(גע-ער-היא-עו-היא), and on the other, אָקַרַשָּׁה(גע-ער-היא-עו-היא).

English has eliminated most inflections and declensions, and this is now also the tendency in spoken and nonpunctuated, printed Hebrew. Instead of using the compact, ביתנו, the current Hebrew speaker says, ביתנו, a form that is grammatically safer and less ambiguous—considering that ביתנו לעלי, we were domesticated'. However, ward, and the still prevalent.

In this manner we derive from the root גבר, the substantive (גבר-היא-ער-היא, strength, the infinitive (גבריהא-ער-ב-היא-ער), to strengthen, to magnify, to amplify, and the abstract (גברה(היא-גע-עב-היא), strengthening. Likewise, from the root רכב(ער-הן-ער) we generate the act names (גברה(היא-רכב-היא), grafting, and (מרחב) upon the face (מרחב) of the earth.

Prepositional prefixations—grammatical markers and modifiers

The designating letters of the fundamental concepts עב, ענ, עז, על, עם (but not עב, ענ, עז, על, עם) are prefixed to nouns to serve as indicators of relation.

Hebrew concisely renders, 'וח (בא) the house, (בָּרַצוֹנוֹנגע-היא-נע-דעו-הוא-נע-היא-נע-היא) to his will,' is compactly rendered, (בָּינגע-היא) there,' is shortly rendered, (בָּינגע-היא). Similarly, 'from here,' is concisely rendered, (בָּינעל-היא), Jerusalem,' is compactly rendered, ו(לִינעל-היא), Jerusalem,' is compactly rendered, (לִינעל-היא), 'from here,' is concisely rendered, בָּיַר וְיָלָדָהוּא בוּרָא אַר אָריי,' אַרָא אָרָר אָריי,' אַרָא אָרָר אָריי,' אַרָא אָרָר אָריי,' אַרָא אָרָר אָריי,' אַרָא אַריי,' אַרָא אָרָר אָריי,' אַרָא אָרָר אָריי,' אַרָא אָרָר אָרי,' אַרָא אָרָא אָרָאָלי אָרָא אָרָאָליָר אָלאָרָא אָרָא אָרָאָלין אַיָּרָא אַרָא אָרָא אָרָא אָרָא אָרָא אָרָא אָרָא אָרָאָליָ אַרָאָי אַרָאָלין אַרָאָניא אַרָאָלין אַרָאָניא אַרָאָג אָראָראָאָראָראָגאָראָראָגאָראָראָג אַראָראָג אָרָאָלין אַרָאָנאָג אָראָגאָגאָראָגאָראָראָגאָראָגאָראָגאָגאָראָגאָגאָראָגאָגאָראָגאָראָגאָגאָראָגאָגאָראָגאָגאָגאָראָגאָגאָגאָגאָראָגאָגאָגאָגאָג

ַיַצַקֹב וְיִשְׂרָאֵל בְּחִירִי וָאֶקָרָא לְךָ בִּשְׁמֶךָ אֲכַנְּךָ וְלֹא יְדַעְתָּנִי, יְדַעְתִּיךָ בְשֵׁם.

Conjunctions

Verbal morphology-structural augmentations

Personal pronouns are inserted into the Hebrew root, אנעל, to relate the act (actually its recognized outcome) to the actors performing it and the recipients bearing its results.

The basic אָכָר form refers to acts that are done and manifested, for example, אָכָר, he broke, pronounced with a prolonged בָאָא. To relate the act שָׁבָר to the person(s) believed, or accused, of having perpetrated it, the root is systematically augmented into:

שָׁבַרָּאָ(שׁבר-אַתִי) not שְׁבַר-אַנִי), שְׁבַרְאָ(שׁבֹר-אַתָּ), שְׁבַרְאָ(שׁבר-אַת), שְׁבָרָאָ(שׁבר-אַת), שְׁבָרָאָ שְׁבַרְנּוּ(שׁבר-אַתוּ), שְׁבַרְתֶּם(שׁבר-אַתם) not שְׁבַרְתֶם), שְׁבַרְתֶן(שׁבר-אַתן), (and not שְׁבַרָהָן), שֶׁבְרוּ(שׁבר-הוּאַ), (not שַברהם).

Notice the use of the pronoun אָבָרו הוא to betoken the fact that many actors participated

in the act of breaking; notice also the use of the obsolete personal pronoun (אָקריאר-היא) appended to שבר to form the declension שָׁבַרְתִּי, in place of the current, independent, personal pronoun אַנִי.

Insertion of a supplemented היא turns the factual אָקָרוו they broke, into the command, (אָקרו(עז-היא-עב-ער-הוא) colloquially, אָקָרא-שברו(את-היא-שברו(את-היא-שברו). It is possible that the interjection אָנָא שָא נא is actually the personal pronoun אני used in polite, imploring or plaintive modes of speech in place of the blunt, אָאָנא

Personal pronouns such as את, היא, הוא, אני may be prefixed, infixed, or suffixed to augment a verbal as well as a nominal form: גוי אַשֶׁר לא-תִשְׁמַעואת-היא-שׁמע) לְשׁנוֹ(לשׁוֹן-הוּא), in which the גוי היא of אַת-היא ס גוי פון refers to the גוי.

A pronoun such as היא may be added to convey a whiff of scorn or irony:

ַהָאַמְרִים יְמַהֵר יָחִישָׁה(יחישׁ-היא) מַצֵשָׁהוּ לְמַצַן גַרְאֶה וְתִקְרַב וְתָבוֹאָה(בא-תבוֹא-היא) עֲצַת קְדוֹשׁ יִשְׂרָאֵל וְגַדֶעָה(בא-גַדע-היא),

in which, וְתָבוֹאָה; is rendered 'let Him (היא) hasten,' וְתָבוֹאָה, is rendered 'and come,' and i וְנָדֶעָה is rendered, 'That we may know it (היא)'.

Auxiliary verbs may be used to properly place an act in a sequence of events in the life of the speaker. For example:

קַבָר שָׁמַרְתִּי (I have guarded just now), זֶה עַתָּה שָׁמַרְתִּי (I have already guarded), סַיַמְתִי לִשְׁמר (I am still גמרתי לשמור (I have finished guarding), אני ממשיך לשמר or גמרתי לשמור (I am about to guard). (I am about to guard), אני עוֹמַר לְשָׁמר

Notice that כְּבָר is but a variant of גְּבָר-חָבָר, and that אָבָר-חָבָר is but a variant of עצמתי-אסמתי. In English the technique is similar: 'I have eaten,' means food is already heaved in

me, 'I will eat,' means I desire to eat and (maybe) I am going to do it, and 'I should eat,' means the burden of taking food rests on my shoulders.

Alternating the use of הוא הוא, is also employed to differentiate between the exclamative (for example, (אָברועד-עב-הוא-ער), 'you break it'), the definitive (for example, 'שָׁבור(עז-עַב-הוא-ער), 'it is broken'), and the tentative (for example, 'שָׁבור(עז-עַב-הוא-ער), 'it is breakable').

The absolute, or שָׁבוֹר(עו-עב-הוא-ער), form (for example: שָׁמוֹר(עו-עב-הוא-ער)) of the verb implies an authoritative, an evocative, a suggestive, an insistive, a declamative, or a durative mode of speech, with the pronoun הוא intended for all. Insistence is often shown by a rhythmic repetition of an inserted pronominal, for example, i, followed by, i, both short for אָהא, as in,

שׁוֹב אָשׁוּבואני-שֿוּב), מוֹת תְּמוּת (אתה-מוּת), שָׁמְעוּ (עז-היא-עם-הוּא) שָׁמוֹצַ, זָכוֹר תְּזְפּוֹר (את-היא-זכוֹר). In אָמְרוּ (זמר-הוּא) אָלְהִים וַמָּרוּ (עם-היא-ער-הוּא) זו זַמְרוּ (זמר-הוּא) זַמְרוּ מוּ זַמְרוּ (זמר-הוּא) ז designed to distinguish the last word of the sentence.

In the colloquial, הָבוֹא כָּבָר, the prefixed הָ is not an indicator of future action, but rather an emphatic and confrontational אתה. Such a direct אתה is found in the command הַוָּת(הוה-את)-דַּעַת(רע-את). A repeating את puts rhyme into הַיָּעַת(רע-את). A string of את, אתה is deployed for poetic effect in,

מַאַת(עם-היא-את) יהוה הָיְתָה(חי-אתה) זאת(זוֹ-את) הִיא נִפְּלָאת(נפּלאה-את) בְּעֵינֵינוּ. In the wishful statement, אָרָה עָר-הוּא-עם) יְדָך עַל-צָרֶיהָ is a compromise between הָרָם(אתה-ער-הוּא-עם) ממן מער אניי, אַרם אני may be repeated for emphasis, as in, בַרַכַני(ברך-אני) ב

Yet, while צָבָע form, and means 'painted', צָבָע , with no added personal pronouns, is now chosen to designate 'a painter'.

The קצל (construction is of the form, באים-היא-ם in which one איז stands for the agent apparently causing the action, and the other היא for the agent intended to experience its results. The insertion of היא sometimes profoundly changes the causal relationships implied in the cumulated verb, and at other times it acts merely as an

Hebrew often sacrifices rigid grammatical structure in favor of phonetic grace as long as meaning remains unaffected, and so it uses אַנָה or שָׁלָה instead of גַּוָה vir שָׁלָה. This happens also in, לָמָדוֹ (לָמָד הוא), 'he taught,' but (לָמָד הוא), 'he taught him,' instead of לַמָּדוֹ.

Differences in verbal meaning can be achieved by the slight change of הָפְעָיל into הָבְּעָיל, as in, הָבְעָיל 'he relented' versus הָבְּעָיל 'he put down,' הָבְעָיל 'he put up for the night' versus הָבְּעִיל 'he complained,' 'he pestered'.

For the sake of vocal emphasis הַקִים is augmented as הַקִימוֹתי, not הַקִימוֹתי, הקימוֹתי,

In its effort to produce agreeable vocal articulations and to avoid grammatical collisions, Hebrew prefers the augmented forms (אָהְכָּתִיב(היא-כּתָב-אַנוּ), 'he dictated', הְכָּתְבַנוּ(היא-כַתָב-אַנוּ), 'we dictated,' and הָכָּתְבַנוּהיא-קר-עַד-היא-כָּתַב-אַנוּ), 'they dictated,' with the pronoun הו הו he latter, being short for the plural הַם. Such also is the imperative structure (אָק בער-היא-עם-ער-הוא), 'you guard,' in which ו is short for הוא אָק בעריהוא, standing again as a marker of the plural הַם הַש אָלוו שַׁמָרוּפּעוריה, 'you (plural) guard him,' הָּמָתְבַנוּהיא, ישׁמְרוּהוּוּשַׁמְרוּהוּוּשָׁמְרוּהוּ הוּא שַמְרוּהוּוּשָׁמָרוּ הוּא שַמְרוּהוּ הוּ שַׁמְרוּהוּ הַשָּרוּהוּ הַיָּא שַמָרוּהוּ הוּ הַשָּרוּהוּ הַשָּרוּהוּ הַשָּרוּהוּ אָבוּר הַשָּרָהוּ אָשָׁמָרוּהוּ אָמָרוּהוּ הַשָּרוּהוּ הַשָּרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּרוּהוּ הוּא standing again as a marker of the plural הַם. By the device of adding pronouns we have the constructions, is the imperative, 'you (plural) guard them,' and הַשַּמְרוּהוּהוּ הַשָּמְרוּהוּ הַשָּמְרוּהוּ הַשָּמְרוּהוּהוּ שַּמְרוּהוּהוּ הַשָּמְרוּהוּ הַשָּמְרוּהוּ הַשָּמָרוּהוּהיָי הַשָּמָרוּהוּ הוּשַׁמָרוּהוּ הַשָּמָרוּהוּהי הַשָּמָרוּהוּ הַשַּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּה הַא שַמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשַּמָרוּהוּ הַשַּמָרוּהוּ הַשָּמַרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשַּמָרוּהוּ הַשַּמָרוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשָּמַרוּ הַשַּמָרוּ הוּשַר הַשָּמָרוּ הַיַשָּרוּהוּ הַשָּמָרוּהוּ הַשָּמָרוּהוּ הַשַּמָרוּהוּ הַשָּמוּ הַשָּרָי הַיַר הַישָּרוּהוּ הַשָּמַרוּה הַישָּר הַיַי הַיּא הַיַרוּ הַישָּר הוּשַר הַיַיָּר הַיַיר הַיַיּא הַיַר הַיא הַיַר הַיּא הַיַר הַיַר הַיּא הַיַי הַיּא הַרוּהוּיוּיי הַי

Also, אָשָׁמַן (היא-עו-היא-נע), יה became fat,' rather than אָשָׁמַן (היא-עו-היא-עו-היא-נע), because of the presumption that gaining weight is essentially an involuntary act. Accordingly, use of the form הָוְקַין is more appropriate than the form הַוְקַעָּר. For 'fattened' or 'caused to be fat', Hebrew employes the פַּעָל form (בּעָל-היא-עו-היא-עו-היא-עו-היא-עו-גע) פֿעָל-אַר.

The presence of any of the gutturals א, ה, ה, ע, causes euphonic changes in the pronunciation of the personal pronoun indicators that exist in the root. Whereas the שָׁל structure of the root (אָבָרעָרעָרעָי, אָבָרעָריָעָד, אָבערעָריָשָ, the אָבָל אָדערעיר of the root גרש גרש גרש גרעיעריען, the root גרש גרש גרש גרש גרש גרש אָבָרַאָריין, the אָבָר גרש גרש גרש גרש גרש גרש גרש אָבָר אָריין, the form גרש גרש גרש גרש גרש גרש אָבָר אָבי אָשָׁתוּ אין אָריין, turns into אָרי אָבַרָּאָם אָשר אין אָרי אָשָרין, 'you have written,' turns into אָבי have worked,' instead of the awkward געַרָּרָק אני אָשָׁתוּ אווווון, whereas for אני אָבי אָשָׁתוּ אין אָר אָר אָשָרין, אני אָבי אָשָׁתוּ אוווון, 'I shall burn it,' with the personal pronoun אוז for the object set ablaze. Also, instead of the form אָאָבי Hebrew prefers the form אָאָגי אָשָּגר

The הָבְּעָל construction is of the form הוא, with the prefixed הּוּא referring to the receiver of the action. הַבְּעָל is better suited than פַעָל to handle roots composed of only

two, or even one, fundamental concept. Such is the case in (הוּקַם(הוּא-גע-עם), 'he (or it) was established,' (הוּבָא(הוּא-בא, 'he (or it) was imported,' הָפָע(הוּא-בא, 'he (or it) was carried away,' הָפָע(הוּא-גע-היא), 'he was beaten,' הוּבַח(הוּא-גע-היא), 'he (or it) was put down,' הוֹבָח(הוֹא-עם-עו), 'he was put to death,' and הוֹבַן(הוֹא-עם-עו), 'he was understood'.

The נְפָעָל construction is of the form אני-ם-ם-אני in which אני implies 'myself', 'yourself,' 'himself,' and so on. Some examples are, נְמְלָם, 'he saved himself by escaping,' 'he extricated himself,' גְּלְחַם, 'he himself fought,' גְּלְחַם, 'he fell asleep by himself,' גְּלְחַם, 'he got scared,' גָּלְחַם, 'he remembered by himself,' גָּלְחַם, 'he came in,' 'he carried himself in,' and גָּלְבָע, 'they themselves will be bought'.

An initial אני(נע-היא), short for אני(נע-היא), may also mean, 'he is,' or 'it is,' as in:— נמצא(אני-מצא), נפצע(אני-פצע), נרצח(אני-רצח),

in place of the spurned: --

הָמִצַא(היא-מצא), הָפָצַע(היא-פּצע), הָרָצַח(היא-רצח).

It is also interesting to recall the opposites: -

ַנְמְלֵט/נִמְרֵט, נְרְדֵם/נִשְׁדֵם, נִלְחֵם/נְרְחֵם, נִבְהַל/נִבְהַר, נִכְנֵס/נִכְרֵס, הוּקַם/הוּרֵם-הוּקֵר, שָׁבֵּר/שָׁבֵּץ-שָׁבֵל

The גָּשְׁתַר construction may refer to a past action, as in גָּשְׁתָר, or to an ongoing action, as in גָּשְׁתָר, distinguished only visually by versus מַ In future tense constructions, the pronoun ג, short for אני , short for אני , short for the obsolete pronoun אני , אמי , as in: –

הוּא יִשָּׁמֵר(היא-עו-עם-היא-ער), היא תִשְׁמֵר(את-היא-עו-עם-היא-ער), אתה תִשְׁמֵר(את-היא-עו-עם-היא-ער), את

תִּשְׁמְרִי(את-היא-שׁמר-נע-היא), אתם תִּשְׁמְרוּ(את-היא-שׁמר-נגע-היא), הן תִּשְׁמַרְנָה(את-היא-שׁמר-נע-היא). But while הִשְׁמְרִי (you will be guarded' is נְפְעַל is הִשְׁמְרִי, 'you will guard,' is a אָשְׁמְרִי, 'you will guard,' is a אָשָׁמָרינ

These are the seven paradigmatic verbal constructions. Hebrew found them sufficient and did not deem it necessary to add more, say a הָפָעָל form.

Pronominal suffixation in verbs

Personal pronouns, called in Hebrew בְּנוּיֵי הָפְעוּל, may be affixed to an augmented verb to further relate the expressed act already including its perpetrators to its beneficiaries. In פּעל:-

he answered me עָנָנִי(ענה-אני), (הוּא) עָנָנִי(ענה-אני), .he bought me קנני(קנה-אני), (הוא) קנה אותי, .he guarded me אַמָרַנִי(שמר-אני), (הוא) שמר אותי, .you (singular) guarded me שָׁמַרְתַּגִי(שׁמר אתה-אני), שָׁמַרְתַּגִי(שׁמר אתה-אני), שָׁמַרְתַּגִי .they guarded me, שמרו אותי, הם (הוא) שמרו אותי, הם אמרוני (שמר-הוא-אני), הם (הוא) .I guarded you , שמרתי אות (הוא את כה), אני (אַתי) שמרתי אות (הוא את כה), I guarded you .I guarded her שמרתיה (שמר-אתי-היא), אני (אתי) שמרתי אותה (היא), אני .I guarded you (plural) ,שמרתכם(את-אך-הם), אני (אתי) שמרתי אתכם את-אך-הם), אני אני we guarded them ,שמרנום (שמר-אנו-הם), אנו שמרנו אותם (הם), .we guarded you (plural) שְׁמַרְנוּ כֶּם(את-אכם), אנו שמרנו אֶתְכֶם(את-אכם), שִׁמַרְנוּ בֶּוּכֶם שמר-אנו-אכם), אנו שמרנו אָתְכָם In פּעָל. he asked me בְּקַשׁנִי(עב-היא-גע-עז-אני), הוא (היא) בְּקַשׁ אוֹתי (אני), In הָפָּעִיל:— . he ejected me הָשָׁלִיכַנִי(היא-עז-על-היא-הך-אני), הוּא השׁליך אוֹתי (אני), .she ejected us הָשָּׁלִיכַתְנוּ(היא-עז-על-היא-הך-את-אנוּ), היא הָשָּלִיכָה אוֹתָנוּ, In שמרנוכם שמר-אנו-אכם), the pronoun אנו marks the perpetrator of the act שמרנוכם, while the

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pronoun אכם marks the beneficiaries of this act.

Additional, prefixed indicatives are useful: לְשָׁמְרְנִי(עַל-שׁמר-היא-אני), to preserve me, בְּשָׁמְרוּ(בא-שׁמר-הוּא), as he was guarding. But in this way we may get such heavyweights as (וַלְבָשָׁנַפְגִישְׁכָם(עַב-עַל-היא-הן-עַי-גַע-מָר-גַע-היא-עַי-אכם), 'when it comes to pass that we will bring you together,' or וָלְכַשַׁתַצוֹצרוֹתְיכֵם, 'and when your (plural) trumpets'.

Hebrew and the Indo-European languages

The connection and the separation

There is evidence implying that English, like the rest of the Indo-European languages, once had a distinct root system. It is inconceivable that the store of English words, being so vast, did not arise from a small, limited pool of a few concise words having concrete meaning. It is in the nature of things that development moves from the simple to the complex, from the concrete to the abstract, and from the base to the sublime. Mankind has certainly made astounding strides in its cultural development in the last five thousand years, suggesting that there is, indeed, sense and destiny in the human experience.

Social instincts, a developed vocal system, and high intelligence drive man to speak. How and when man 'started' to speak is pure speculation. Still, it pleases us to fancy an ancient rudimentary language with very few natural sound bites, among them, say, the sound ba, consisting of the stoppage b followed by the air-letting a. It is the essence of language that this sound have a meaning. In Hebrew, the meaning of x2 (like הופיע) is 'came,' 'appeared,' 'was of substance,' or 'acquired bulk,' possibly in analogy with the sound itself being puffed out. Whenever somebody came into the house (the cave, the shade of a tree) he would be announced by the restrained and distinctly human exclamation ba (in contrast with the wild uncontrolled shrieks and howls that would greet a snake). As a child I myself used to exclaim "אבא בא", 'Dad is home!' Once ba became linguistically significant, at least in the very concrete sense, its usage could be generalized allegorically. The idea of, 'come,' could be applied to a everything that are is now, but was not here before. Our hypothetical man, אדם-קדמון, could point to his children and exclaim, "ba," he could point to the sprouting plants in his garden and say, "ba," or he could point to water bubbling from the ground and say again, "ba". And in every instance he would have been well understood, as he knew, by his intelligent and experienced listeners.

But man is inventive and resourceful and could not be satisfied with a ba-ba language, unless he happened to be fond of such delicate intonations as ba, baaa. might point to his daughter and say, בתוכא-את, he might notice a buxom (big-some) woman and say, יפה(עו-היא) or maybe even (בְּבָה(עב-הוא-עב-הוא-עב-היא). He might point to a boil on his skin and say, ארעב-הוא-בועה or אבעבועה. He might point to his plants and say אביב(עב-היא-עב) or אבוהיא-נאר הוא-גא היא) אביב(עב-היא-על). He might point to his water source and say (איובלעט-בא-הוא) or (יובלעני-גאי-עב-על), ייובלעני-הוא-עב-על), ייובלעני-הוא-עב-על (hence the names of the rivers Aube and Avon). In this way a grown-up became אב later specifically a father. A corpulent cask became אוב A cloud (a cleat, a clod or a clot of vapor) became zy. A reflection coming off the surface of still water became . אוה(עב-היא) בבואה(בא-בא-הוא-היא). Swelling desire (Latin, aveo) became אוה(עב-היא). A flying bird became עוף. The protruding thing coming off the face became אף, 'nose'. 'Mouth' became ש. 'Here' became ש. The lid covering the eyes became (עד ער). עפעף ער). עפעף ער The bleating sound coming out of the mouth of the lamb was called (כנה (עד-היא), the baking of bread was called (איפה, a pile of grain was called איפה, boiling hatred he called איבה, a long lock of hair was called איבה, a specially pleasing appearance was called יפי(עו-הוא-עף-היא) יפי(compare Latin, venia, venus, bonus, and venio), and one's own house was called בית בית בית דhis is how language develops, nearly instantaneously, and by consensus. This is also why language is predictable, predestined, and inevitable.

Man has good control over his sound-producing organs, and he did not articulate only "ba". He also shouted, "ga". In Hebrew, אם means 'to extend,' 'to reach,' 'to stick out,' 'to exit,' or 'to exist' (to exit and go into the world). So, (ילא געה(גע-היא) is 'to elevate,' א העריהיא) is 'to bellow,' 'to bawl,' (א קאה(גע-היא) is 'to vomit,' (א היא) is 'to elevate,' א געריהיא) is 'a nobleman,' היא) is 'a roof' (that is, like a rope something made of ripped or reaped material), א מועקה(עם-הוא-גע-היא), is 'a valley', is 'a cake,' (געריהיא) is 'a cake,' א געועינגע-געי-היא) is 'a tattoo scar,' and is 'a brother'.

In the same way man fixed the meaning of the other five fundamental concepts , על, עם, נע, רע

In his desire to vocally communicate with his kin, our imagined man was naturally driven to emit his whole repertoire of distinct primary sounds: *ba*, *ga*, *za*, *la*, *ma*, *na*, and *ra*, with their slight tonal alterations. When he fell upon the idea of using them as immutable vocal markers, he inevitably referred them to the most fundamental concepts of his material existence—those of issue, of being, of existence, or of appearance, in such variations as, *be*, *we*, *if*, *is*, *as*, *it*, *at*, *to*, *co-*, *all*, *am*, *on*, and *are*.

Our hypothetical man, on the verge of discovering language, reserved the rolling sound *ar-ra*, Hebrew ער-רע, for whatever is varied and dispersed, or corrupt (namely, ripped) and rotten, or crumbling and tottering, or broken and cracked, or ripped and rived, or breached and ruptured, or ridged and corrugated.

Man was now bursting with thoughts and ideas he wanted to share with his fellows, but *av-ba, ga, sa, la, ma, na,* and *ra* were not enough, even with their phonetic variants. So, to accommodate the flood of words on the tip of his tongue, he resorted to combinations. At first, he distinctly pronounced 2x, ya, ya, ya, when referring to an extended and elevated object, but then he compacted them into the congealed, 2x, gav, 'back'. Elsewhere, he may have tightened the two primary sounds *ba-ag* into the single word *big*, which was later specialized into *bake*, *bag*, *ba(n)g*, *beak*, *buck*, *pig*, *beech*, *fig*, *fog*, *fake*, and so on. Once 2x became the phonetic designation for *back*, kindred words readily followed: x = x = x, hill, y = y, heel, z = x, stomach, z = x, body, z = x, to desire, z = x, to hope (namely, to heap, to heave, and to have), z = x, love.

Observing the lofty, buxom (box-some, box-same), and beautiful camel our man exclaimed in admiration, גע-עם-על, which hardened into גמל. The abstract (המל הק-עם-על, 'to have mercy,' came later, as did המל ה, 'to create a commotion,' and גמל in the sense of 'to pay back' or 'to reward'.

By combining three fundamental concepts into one congealed word, our man had all the basic roots he would ever need. Then, he added personal pronouns to the roots and, presto, language was ready for general use.

Hebrew permanently settled into this form. No Hebrew root contains empty sounds void of sense and, consequently, no Hebrew root, nor any of its parts, is of a clanking hissing, imitative nature.

For some reason, the inventive and restless Indo-Europeans kept tinkering with both the word structure and the grammar of their language, starting in remote times and ending in the newest language known as English. As language matured and memory of its origin dimmed, the Indo-Europeans gave it a fresh practical look. The decomposition of a word into its prime components became irrelevant, and the insertion of personal pronouns into the root was considered cumbersome or was misunderstood. These talented and creative people initiated a linguistic revolution that ended in the separation of the word structure from the grammar, making it by degrees less inflectional (but they also reached a point where they had to resort to the use of apostrophes). Ultimately, English has performed the heroic, twin feats of abolishing gender and nearly relieving the language of inflections. Instead of saying "c, the English speaker" says 'my house'. Instead of saying אָלָך the English speaker says 'I shall go', and instead of saying אָכָלְהָי, the English speaker says 'I ate' or 'I have eaten' (existentially meaning I have food). Instead of saying תָרָאו the English speaker says 'you (plural) will be seen'. A few thousand roots were thereby transformed into tens of thousands of self-contained words.

The extent to which the Indo-European word became isolated is demonstrated by, *man.* No metaphor is shown for *man*, and for the sake of linguistic safety, its root is given in etymological dictionaries only as *ma*, Hebrew v. It is conceivable that the sound '*ma*' in 'man' is the same as '*mo*' in *mother*, *mole*, *more* and *most*, and that *man* implicitly combines *me* and *one*. With a link between the English word *man* and the Latin word *magnus*, we could metaphorically connect *man* to *moon* and *mane*, in the same way that we connect in Hebrew אדמה סו אדמה אדמה אדמה.

Once the concept and function of the root was abandoned and forgotten in the languages of the West, hard consonants were liberally added to roots to make pronunciation more emphatic, such as a hissing s before c, l, n, p, q, t and w. Other consonants were softened, as g into y and l into i. The m and n sounds where inserted for *bon ton*, and words were otherwise left littered with obsolete grammatical debris. Reconstruction of the entire Indo-European root system is an elusive undertaking.

Yet, not only the root, but also its primary components, can often be detected in many Indo-European words. In particular, the sound, *ar*, still indicates separation, to wit: *acquire*, *argue*, *arid*, *ark*, *art*, *bear*, *bore*, *border*, *bark*, *break*, *bran*, *brief*, *bristle*, *burn*, *curb*, *carve*, *curve*, *carpet*, *charge*, *corrode*, *corrugate*, *crag*, *cross*, *crimp*, *cruise*, *crumb*, *crush*, *cairn*, *crawl*, *crop*, *crude*, *curl*, *dare*, *dear*, *derelict*, *desert*, *destroy*, *disperse*, *drive*, *dross*, *dry*, *err*, *far*, *fear*, *fork*, *frame*, *fracture*, *freak*, *fret*, *gear group*, *grate*, *grow*, *great*, *grime*, *grind*, *herb*, *herd*, *large*, *mar*, *mark*, *more*, *murder*, *pare*, *procure*, *raw*, *row*, *rip*, *rug*, *rugged*, *rage*, *rake*, *rack*, *rend*, *rest*, *rice*, *rise*, *rib*, *ribbon*, *read*, *rid*, *ridge*, *ride*, *rig*, *rich*, *rock*, *rough*, *root*, *rub*, *rubble*, *rake*, *run*, *reap*, *rest*, *rust*, *room*, *sarcasm*, *scar*, *score*, *scatter*, *series*, *shear*, *sore*, *spar*, *spring*, *strew*, *tar*, *tear*, *thorn*, *harsh*, *thread*, *thrive*, *throw*, *trap*, *urge*, *various*, *verge*, *war*, *wear*, *wrap*, *wrest*, *wrong*.

It is etymologically interesting to retrace the English word *hole* to the Greek word $\kappa o \iota \lambda o \varsigma$ (koilos). Looking at it in its root form *hl*, Hebrew ($\kappa o \iota \lambda o \varsigma$), logically places the word in the conceptual π family of: *hill, heel, hall, heal,* and *holy*; then in the family circle of: *call, collect, coil, kill, kilt, cold, hold, gold, gall, gale,* and *guilt*—all words having at their base the same concrete meaning.

Notational Remark

In the following dictionary, an unmarked Hebrew root such as שלם indicates that the root is found in the Hebrew Bible, the תנך An asterisk, as in אלטף, points to a root not found in the null notation אלטף indicates that the root is not in use.