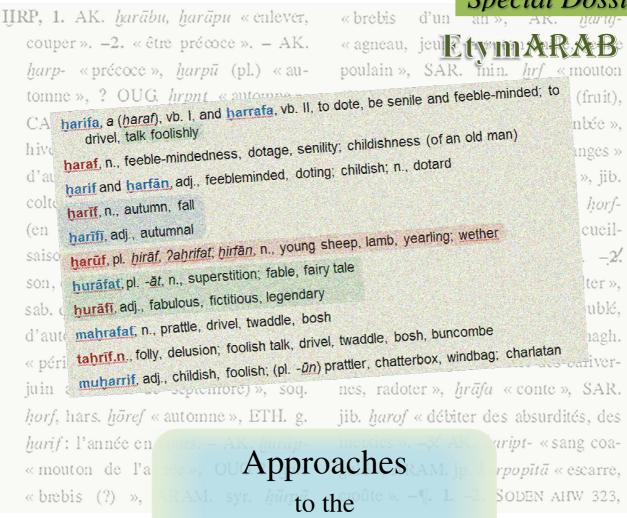
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Biradicalist Mimophonic Triradicalism: Sounds, root nuclei and root complements in M. Ḥ. Ḥ. Gabal's 'etymological' dictionary of Arabic (2012)

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Abstract

This article presents and discusses the monumental 'etymological dictionary', or 'lexicon', *al-MuŚġam al-ištiqāqī al-muʔaṣṣal*, ¹ by the late Egyptian professor of Arabic language at al-Azhar University, Muḥammad Ḥasan Ḥasan Gabal (d. 2015), ² and tries to situate it on the map of positions taken in Arabic and Semitic Studies in the West regarding the question whether or not the triradical roots of the Arabic and Semitic lexicon may have developed, via extension, from earlier biradical ones.

Key words: biradicalism, triradicalism, root, ištiqāq, traditional 'Arab' etymology

The study that this article aims to present and discuss is remarkable in at least three respects:

- 1) It gives eloquent proof of the deplorable fact that, in spite of globalisation and an increasingly interconnected world, Western and indigenous Arab linguistics obviously continue to live as if in two separate galaxies—neither does Gabal refer, in any way whatsoever, to the bulk of Western research on the questions that are central to his own linguistic efforts, and nor seem scholars in the West to have taken notice of Gabal's magnum opus so far.
- 2) Although the *MuSğam* does not communicate with Western research, the theory developed by Gabal nevertheless implicitly contributes to the discussion of one of the key issues of Arabic (and Semitic) linguistics: the so-called "biradicalism problem" (Voigt), i.e., the question "whether the Semitic lexicon is primarily built on biradical or triradical bases, that is, whether triradical roots are original or developed out of a more archa-

¹ Muḥammad Ḥasan Ḥasan ǦABAL, al-MuṢǧam al-ištiqāqī al-muʔaṣṣal li-ʔalfāz al-qurʔān al-karīm: muʔaṣṣal bi-bayān al-Ṣalāqāt bayn ʔalfāz al-qurʔān al-karīm bi-ʔaṣwāti-hā wa-bayn maṢānī-hā, 4 vols., Cairo: Maktabat al-ʔĀdāb, 2012. – The MuṢǧam seems to build (among other works) on the author's earlier study, al-Maʕnà al-luġawī (see note 7, below).

² Gabal also formerly served as Dean of the Faculty of Arabic Language in al-Manṣūra; when the *Muʕġam* was published he was *ustāḍ ġayr mutafarriġ* at the Faculty of Qurʾanic Studies, Ṭanṭā.

³ The Bibliography ("al-Maṣādir", $Mu\S{\check{g}am}$, iv: 2400-2408) does not contain any non-Arabic references.

⁴ Rainer M. VOIGT, *Die infirmen Verbaltypen des Arabischen und das Biradikalismus-Problem.* Stuttgart: Franz-Steiner Verlag Wiesbaden, 1988 (= Akademie der Wissenschaften und der Literatur Mainz, Veröffentlichungen der Orientalischen Kommission; vol. 39).

ic biconsonantal base". Uninformed as Gabal shows himself of the decades-old debate in the West as well as of many of its basic assumptions and major findings, his approach certainly suffers from what many in the West will consider a basic prerequisite for being taken serious in academia. Nevertheless, I do not think that this lack of communication with the non-Arab linguistic tradition and research community should be sufficient reason for Western scholars to ignore such a major contribution to the field, all the less so since Gabal was and is still revered in the Arab world as one of the 2a2imma, the 'leading authorities', in the field of Arabic language studies. Furthermore, his theory can be regarded, in quite a number of aspects, as a kind of 'missing link' between biradicalist and triradicalist positions.

3) Given that Gabal considers Arabic as one of the 'purest' (?anqà) languages of the world (Musgam, i: 10, fn. 1) and therefore does not feel the need to deal with possible influences from non-Arabic contact languages, his approach to the lexicon is ideosyncratic and shows the notorious tendency to explain the semantic variety in a root from one single basic meaning. This is why many of his assumptions or conclusions will look wrong and inacceptable, or even ridiculous, to Semitists who think they can prove the foreign origin of numerous words and roots, particularly in cases where semantic diversity and obvious unrelatedness among lexical items within 'one' root (cf., e.g., SiFR 'zero' vs. SaFīR 'whistling, high tone' vs. ?aSFaR 'yellow')⁸ as well as evidence from other Semitic languages make the non-Arabic origin of at least one of some of the items highly probable. Nevertheless, again, I do not think this deficiency justifies an in toto

⁵ Rebecca HASSELBACH, review of BOHAS & DAT 2007, JAOS, 128/2 (2008): 372-77, 372.

⁶ HASSELBACH, ibid., even calls it "centuries-old".

GABAL's devotion to Arabic linguistics and his erudition are reflected in numerious publications, which earned him a great deal of his prestige among colleagues in the Arab world. The most important of these publications, apart from the *MuSğam*, seem to be (in chronological order; sources: Library of Congress, LBS Halle-Merseburg, Internet):

al-Masnà al-luġawī: dirāsai naṣariyyai wa-taṭbīqiyyai. [s.l.: s.n.], 1981 ([Cairo]: Maṭbasat al-Sasādai):

⁻ al-Iḥtiǧāǧ bi'l-šiśr fī 'l-luġaï: al-wāqiś wa-dalālatu-hū. Cairo: Dār al-Fikr al-SArabī, [1986];

al-Istidrāk Salà 'l-maSāğim al-Sarabiyyai: fi daw? mi?atayn min al-mustadrakāt al-ğadīdai Salà Lisān al-SArab wa-Tāğ al-Sarūs. Cairo: Dār al-Fikr al-SArabī, [1986];

⁻ Xaṣāʔiṣ al-luġať al-Ṣarabiyyať: tafṣīl wa-taḥqīq. Cairo: Dār al-Ṣikr al-ṢArabī, [1987];

Difās san al-Qur?ān al-karīm: ?aṣālai al-?isrāb wa-dalālatu-hū salà 'l-masānī fī 'l-Qur?ān al-karīm wa'l-luġai al-sarabiyyai. Alexandria: Dār al-Masrifai al-Ğāmisiyyai, 1998;

 ⁻ al-Murakkab [?] al-?asmà al-?isnādī wa-?anmāṭu-hū. Alexandria: Dār al-MaSrifať al-ǧāmiSiyyaï,
 1998?;

⁻ Taṣāqub al-ʔalfāz li-taṣāqub al-masanī. Alexandria: Dār al-Masrifat al-ǧāmisiyyat, 2000?;

^{- (}SIlm) fiqh al-luģai al-Şārabiyyai: ?aṣālatu-hū wa-masā?ilu-hū. Cairo: Maktabat al-ṢĀdāb, 2005;

Witāqaï naql al-naṣṣ al-qur?ānī al-karīm min rasūl allāh ?ilà ?ummati-hī. Cairo: Maktabat al-?Ādāb, 2010;

⁻ al-Talaqqī wa'l-ʔadāʔ fī 'l-qirāʔāt al-qurʔāniyyat: taḥqīqāt. Cairo: Maktabat al-ʔĀdāb, 2011;

⁻ Min al-qaḍāyā al-kubrà fī 'l-qirā?āt al-qur?āniyyat. Cairo: Maktabat al-?Ādāb, 2012.

⁸ Example taken from Abdellah CHEKAYRI, "Ištiqāq", in EALL, II (2007).

rejection of the summa of an erudite Arab scholar's eminent knowledge and vast intellectual efforts—for mainly three reasons. First, although parts of the work are certainly not tenable from a modern linguistic perspective, others actually do overlap with certain trends in Western research on the composition of the Arabic lexicon, to such a degree that it seems hardly believable that they should have developed without knowing about each other. Second, the partial inacceptability of Gabal's approach notwithstanding, it still provides a huge amount of illuminating insights and is a veritable treasure trove of interesting ideas that can be useful also to Western research, particularly so because he is in constant dialogue with the indigenous Arab linguistic tradition. Thirdly, the tendency of most Arab scholars to derive all lexical items with identical root consonants from one single root, even if they belong to highly diverging semantic fields, may, it is true, produce 'wrong' results from the point of view of strictly scientific diachronic linguistics. They are, however, nevertheless worth our attention because they often produce/create relations that, although linguistically untenable, from some point onwards start to live lives of their own. The semantic 'relations' postulated by this type of paretymological 'derivation' do not reflect historical truth, but allow the researcher to look into the interesting processes of dynamic value production: like popular etymology, they grant insight into connections that a culture makes between items or activities that, originally, do not have anything in common but that the language has assigned similarly sounding words to.

Gabal's approach

Gabal explains his approach (and the lemma structure of his dictionary) in the introduction to this 4-volume study ('Bayn yaday hādā 'l-musgam'). He shares the assumption of the classical lexicographers that the meaning of any genuinely Arabic word (lafz) can be 'derived' (muštaqq) from an underlying sequence of (generally three)⁹ root consonants that carry a basic semantic value. He calls this sequence a 'structure' (tarkīb, elsewhere identified with $m\bar{a}dda\bar{t}$ 'theme' or gidr 'root')¹⁰ and explains the fact that all items derived from such a tarkīb participate, in one way or another, in its basic meaning, as the result of the principle of wahdat al-?asl, the 'unity of the root,' which he considers a unique specificity of the Arabic language ($Mu\S am$, i: 10). While some classical lexicographers would allow for the side-by-side existence of homonymous, but unrelated roots, e.g., $\sqrt{{}^{1}SFR}$ (> sifr 'zero', etc.) alongside with $\sqrt{^2SFR}$ (> safīr 'whistling, high tone', etc.) and $\sqrt{^3SFR}$ (> laster 'whistling') and $\sqrt{^3SFR}$ (> laster 'whistling') and $\sqrt{^3SFR}$ (> laster 'whistling') are the same of 'yellow'), Gabal follows those who believe that even such a diversity can, and must, be derived from a still deeper $tark\bar{t}b$, that is, in our example, a $\sqrt{{}^{0}SFR}$. For some grammarians, this is only a formal construct; Gabal, however, who believes radically in the 'unity of the root,' goes with those who do not regard assumed roots like $\sqrt{{}^{0}SFR}$ as a merely formal idea but always also attach a real value to it, a value that is not only hypothetical but is attested

⁹ According to HASSELBACH, "[t]he concept of a triradical root was originally developed by Arab grammarians in the tenth century C.E." – op. cit., 373.

¹⁰ Musgam, iv: 2411, heading Fihris al-tarākīb (: al-mawādd: al-ģudūr) al-luģawiyyat.

in the sources (in our case: 'emptiness', xuluww, farāġ, as in ṣafira, a, vn. ṣafar, ṣufūr 'to be empty, void, vacant'—Musgam, iv: 1271). Here, as in less complex, non-homonymous roots, the very basic meaning has to be 'extracted' (istaxlaşa) from all existing items, i.e., concrete realisations/derivations in the lexicon. To have done this extraction for all the items relevant for the Qur'anic vocabulary (which is Gabal's main corpus), is, in the scholar's own words, his greatest achievement because it demanded his hardest efforts and a long-standing experience. In his search for the basic meaning of a $tark\bar{t}b$ he says he let himself be guided by the work of earlier lexicographers, but often also went beyond their findings. A major criterion for Gabal to decide which out of a variety of meanings represents the basic value is its closeness to the senses, or sensual perceptibility (hissiyyat), palpability, concreteness, or 'materiality' (māddiyyat). 11 To take again our SFR example, he finds the basic *'emptiness' in the adj. sifr (also sufr, sufur, safir) 'empty, void, vacant' and explains sifr 'zero' $[\sqrt{1}SFR]$ as *'circle made around an emptiness', safīr 'whistling, high tone' $\lceil \sqrt{2}SFR \rceil$ as *'sound produced by blowing into a hollow (= empty) reed', and Pasfar 'yellow' $\lceil \sqrt{3}SFR \rceil$ as *'colour of the face of s.o. who is hungry (= has an empty stomach), or has a certain disease (called safar) in the belly that renders the face yellow'.

Gabal calls the 2-consonantal kernels "lexicon chapters (or: divisions)" (sg. fasl $mu\S gam \bar{t}$) because they provide him with a primary principle to group his material. Each biradical nucleus carries a specific meaning produced by the interplay of the two consonants following each other, a value that usually is represented in its purest way in the corresponding geminated verbs $(C_2: \text{ or } C_3=C_2)$, i.e., those that do not have an additional third root consonant as a modifyer. The C_1C_2 unit may be preceded, separated or followed by 2, 20 or 21 without these having a significant impact on the 22 equence and its semantic essence. This is why all roots containing 22 ham and/or weak consonants are grouped differently than in traditional dictionaries; e.g., 23 with 24 wor 24 at all 25 chapter. Consequently, there are no 24 ham 25 have 26 have 27 at all 28 have 28 have 29 ha

¹¹ Musğam, i: 14-15.

¹² GABAL thinks that the "strong, sound" consonants (sihāh) play the decisive role in determining the meaning in roots that also contain a weak consonant (sillat) or a hamz. He claims this to be one of the innovative ideas that he added to previous research. He also thinks that 2, W and Y hardly can be imagined to form part of a biradical nucleus because of their "volatility" – Musgam, i: 22.

<u>dālika</u>) attached to the nuclear *BD* sequence (*Mus̃gam*, i: 19-20). In this way, Gabal groups the roughly 2300 roots he deals with, in c. 370 chapters dedicated to the biconsonantal nuclei from which their meanings are 'derived' (*Mus̃gam*, i: 22).

The semantic modification caused by the addition of a third consonant to the biconsonantal nuclei is explained by Gabal in **mimophonic** terms. That is, for the author, the relation between sound and meaning is not arbitrary but determined by the phonetic features of the involved consonants. The "solidity\compactness or coarseness combined with spreading\diffusion," mentioned above, that is added to the C_1C_2 kernels when complemented by \underline{T} , corresponds to the articulation of $[\theta]$ as a voiceless dental fricative, an obstruent (\rightarrow "solidity\compactness, coarseness") with only limited closure of the vocal tract, not stopping airflow but making it turbulent¹³ (\rightarrow "spreading\diffusion"). The semantic values of all consonants are described in detail in Gabal's "Introduction" and explained again in the opening paragraphs of each $fasl\ musgam with a definition of the basic values (sg. <math>masna\ mihwar with a minwar with a paragraphs of each fasl\ musgam when a definition of the basic values (sg. <math>masna\ mihwar with a with a with a with a with a given. Gabal's terminology seems to draw on earlier—Classical—source(s), but the author does not mention any name, and I have not been able so far to determine in whose footsteps he is following:$

BSV = basic semantic value, al-masnà al-luġawī al-sāmm¹⁵

- $/?/ = da\dot{g}t$ 'stress' \rightarrow BSV: $tu^2akkid ma^2n\dot{a} m\bar{a} tashabu-h\bar{u} f\bar{i}$ 'l- $tark\bar{i}b$ 'confirms/underlines the meaning of the basic structure that it accompanies'
- /b/ = $ta\check{g}ammu$ \$\(\text{tar\bar{a}kum\bar{\bar{\bar{\bar{\bar{\bar{a}}}}}}} raxw, ma\$\(\text{tal\bar{\bar{a}}\times uq}^{\bar{\bar{a}}} m\bar{\bar{a}}\) 'soft accumulative concentration, with some cohesion' \to BSV: $ta\check{g}ammu$ \$\(\text{tal\bar{a}}\times uq^{\bar{a}} m\bar{\bar{a}}\) 'soft agglomeration, with some cohesion'
- /t/ = daġt daqīq (yu²addī ʔilà ḥabs dasīf ʔaw ġayr šadīd) 'fine\soft\gentle pressure (leading to a light, or not strong, obstruction\retention)' → BSV: daġt bi-diqqat wa-ḥiddat yataʔattà min-hu masnà 'l-imtisāk al-ḍasīf wa-masnà 'l-qaṭs' 'fine, but sharp\accentuated pressure, giving the meaning of a weak retention or interruption'
- /θ/ = nafād diqāq bi-katāfat wa-'ntišārⁱⁿ mā, ka'l-tafaššī 'fine air flow (lit. penetration\ breakthrough of s.th. fine) ¹⁶ with a certain density\solidity and spreading, such as diffusion' → BSV: katāfat ?aw ġilaz masa tafaššⁱⁿ 'solidity\compactness or coarseness combined with spreading\diffusion'

^{13 &}lt;a href="https://en.wikipedia.org/wiki/Obstruent">https://en.wikipedia.org/wiki/Obstruent, as of 24Mar2017.

¹⁴ However, when I presented GABAL's approach at the all-German meeting of Oriental Studies (Deutscher Orientalistentag, Jena) in September this year, the terminology did not ring any bells in the audience (some 30-40 people) either. Nor did Jonathan OWEN (Bayreuth) recognize in it the terminology of any classical author. (Thank you to the DOT audience and J. OWEN—as well as to G. Leube who was so kind as to ask Owen his expertise for me—for their informed feedback.) This evidence would speak against my assumption that we are dealing with some older phonetic terminology here; rather, it would suggest that GABAL invented it himself. – For the translation of GABAL's terminology in the following paragraphs I am deeply indebted to Zeus Wellnhofer, Berlin, who supported my first attempts with some further suggestions which inspired the version that I ended up with.

¹⁵ Musgam, i: 26-39; basic semantic value (BSV) as given ibid., i: 40-41.

¹⁶ nafad 'penetration' seems to indicate the air flow observed in a fricative.

- $/dz/ = ta\check{g}ammu\S ha\check{s}\check{s} la-h\bar{u} \dot{h}iddat^{lm} m\bar{a}$ 'delicate\fragile\gentle concentration that has a certain sharpness\markedness\vehemence\pitch\precision about it' $\to BSV$: dto.
- /ħ/ = ğafāf fī 'l-bāṭin masa 'ḥṭikāk bi-siraḍ yubriz wuğūd al-mamarr al-ǧāff fī 'l-ǧawf 'dryness inside, accompanied by a friction bi-siraḍ, 17 making apparent the existence of a dry corridor\channel\passage-way deep down' → BSV: iḥṭikāk bi-siraḍ wa-ǧafāf 'friction bi-siraḍ and dryness'
- $/x/ = taxalxul \text{ [etc.] } f\bar{\imath} \text{ } 2a\underline{t}n\bar{a}\text{? } \dot{g}ilaz \text{ 'shaking\loosening\relaxation\vibration [etc.]}^{18} \text{ within a coarseness'} \rightarrow \text{BSV: } taxalxul \text{ ma$a } \check{g}af\bar{a}f \text{ 'shaking\vibration [etc.], accompanied by dryness'}$
- /d/ = imtidād ṭūlī daqīq masa 'nḥiṣār, ?ay iḥtibās san al-siraḍ 'soft vertical extension accompanied by a constriction, i.e., obstruction, over the breadth' → BSV: iḥtibās bi-daġt wa-'mtidād 'blocking\obstruction\occlusion, accompanied by pressure and extension\broadening' 19
- /ð/ = $\underline{t}Vx\bar{t}n \ rVtVb \ 2aw \ gVdd \ (muhtaw^{an}) \ yVnfVd^{20} \rightarrow BSV: nafād \underline{t}ax\bar{t}n \ d\bar{u} \ rax\bar{a}wai^{in} \ m\bar{a}$ wa-gilaz 'permeable thickness/thick\broad air flow, showing a certain softness\laxity\ relaxation and coarseness'.21
- /r/ = suyūlat al-ġirm masa 'stirsāl, ?ay šay? min al-tamāsuk yaǧsal al-ittiṣāl wa'l-imtidād wādiḥayn 'flowing of (= through?) the throat (or fauces), accompanied by a letting go, ²² i.e., some retention, making both continuation\connection and endurance evident' → BSV: istirsāl masa tamāsukⁱⁿ mā 'a letting go\releasing, (but) with some retention\cohesiveness'
- /z/ = šiddat iktināz bi-'zdiḥām ʔašyā? ʔaw ʔaǧzā? basīḍu-hā ʔilà basīḍ 'intense compactness (produced) by pressing things or parts against each other' → BSV: iktināz wa-'zdiḥām 'compactness and compression' ²³
- /s/ = imtidād daqīq (ḥādd ?aw qawiyy) nāfid fī ģirm ?aw min-hu 'extension\prolongation of something fine (sharp or strong) coming through a tube, or from it' → BSV: imtidād

¹⁷ Would this *Sirad* 'breadth' or 'obstruction' mean the sound's articulation with the tongue root against the back of the pharynx?

¹⁸ Does *taxalxul* 'shaking, vibration, etc.' here mean the sound's articulation with the back of the dorsum at the soft palate?

¹⁹ I have no idea what GABAL means by tūlī 'vertical' in the context of /d/—perhaps the thickening of the tip or blade of the tongue when being pressed (cf. daġt) against the teeth where it also 'broadens' (cf. βirad) and extends (cf. imtidād)? – For βirad cf. also above, /h/ and note 17.

²⁰ I am too uncertain about the vocalization of Gabal's expression as to attempt a translation of his description.

²¹ For *nafād* interpreted as 'air flow' cf. /θ/, above. The sound's 'thickness' and 'coarseness' can perhaps be explained as describing the constriction of the air flow through a narrow channel at the place of articulation, while *raxāwa* may point to the release of air.

²² Does this refer to the air streaming between the (tip of the) tongue and the alveolar ridge that causes the tongue to vibrate in a trill?

²³ Probably a reference to the fact that the teeth are held close together when the tongue directs the airstream towards the sharp edge of the teeth when this voiced alveolar sibilant is articulated.

- bi-diqqat wa-hiddat 'continuation\persistence\prolongation, accompanied by fineness\precision and intensity\sharpness'
- /ʃ/ = tasayyub wa-tafarruq, ?ay intišār wa-tafaššⁱⁿ, wa-sadam tağammus ?aw tasaqqud 'efusion and diffusion, i.e., unfolding\expansion and spreading with no concentration\contraction or hardening\clotting' \rightarrow BSV: tafaššⁱⁿ ?aw intišār masa diqqat 'diffusion or spreading, (but) with some precision\exactitude'²⁴
- /s/ = kawn al-šay? ġalīz̄an qawiyyan fī dātih xāliṣan mimmā yuxāliṭuh 'internal coarseness and strength\powerfulness, free of contamination\contaminating mixing' → BSV: nafād bi-ġilaz wa-quwwat wa-xulūṣ 'airflow (lit. penetration\permeation) combined with coarseness, strength\powerfulness, and purity' 25
- /d/ = gilaz ?aw tiql la-hū hiddat mā, yuxālit fa-yadġat bi-ġilazih wa-tiqlih 'coarseness or heaviness that comes with a certain sharpness, blending itself in so that this coarseness and heaviness exercise pressure/produce emphasis' → BSV: daġt bi-katāfat wa-ġilaz 'emphasis with density\compactness and courseness'
- /k/ = naw? min al-daġţ bi-ġilaz wa-tiql ma?a hiddat muxāliţat 'a kind of stress\pressure\emphasis, combined with coarseness and weight\heaviness, with some sharpness\vehemence blended in' → BSV: al-daġţ bi-'ttisā? wa-'stiġlāz 'stress\pressure\ emphasis accompanied by widening and thickening\hardening\tendency to coarseness'
- /z/ = hiddat tuxālit al-šay? al-katīf, ?ay: tasrī fī ?atnā?ih 'sharpness blended into s.th. dense\solid\compact, i.e., permeating it/running through it' → BSV: nafād bi-ģilaz ?aw ḥiddat masa katāfat 'permeation\penetration\airstream combined with coarseness or sharpness, but also density\solidity\compactness'

²⁴ It seems hard to relate this description to the features Western phonetics usually ascribe to /ʃ/; cf., e.g.: "Its manner of articulation is sibilant fricative, which means it is generally produced by channeling air flow along a groove in the back of the tongue up to the place of articulation, at which point it is focused against the sharp edge of the nearly clenched teeth, causing high-frequency turbulence [cf. tasayyub, tafarruq, intišār, tafaššī?]. Its place of articulation is palato-alveolar, that is, domed (partially palatalized) postalveolar, which means it is articulated with the blade of the tongue behind the alveolar ridge, and the front of the tongue bunched up ('domed') [cf. diqqat ?] at the palate." https://en.wikipedia.org/wiki/Voiceless_palato-alveolar_sibilant (as of 28Dec2017).

²⁵ The element of coarseness, power, sharpness, vehemence, etc., recurring in GABAL's characterisation of /s/, /d/, /t/, /z/ seems to correspond to our Western experience of these consonants as 'emphatics', i.e., 'strong' and 'expressive' (from Greek emphainein 'to present, exhibit, display, let s.th. be seen, etc.').

If find this description untranslatable, mainly due to the unclear meaning of *ğirm*, but also to the unmarked vocalisation of *multaḥVm* (active or passive?) and the difficulty to relate spatial categories (*ittisās*, *imtidād*) to the phonological features that Western phonetics usually attribute to /s/ as a voiced pharyngeal fricative. For these, cf., e.g., https://en.wikipedia.org/wiki/Voiced_pharyngeal_fricative (as of 29Dec2017).

²⁷ While in most other descriptions the prepositions bi- and maSa are used, here we find Sala followed by maSa. Does it indicate more or less the same as bi- (a feature accompanied by, or combined with, an-

- /γ/ = mā yušbih al-ǧušā? alladī lahū šay? min katāfat ?aw quwwat wa-ḥiddat, masa taxal-xulin mā 'resembles the belch which (also) has some density or powerfulness and sharpness, in spite of a certain vibration\wavering' → BSV: taxalxul masa šay? min al-raxāwat 'vibration\wavering with some gentleness\softness'
- /f/ = nafād bi-quwwat (ka'l-ṭard wa'l-ʔibsād) ʔilà zāhir al-šayʔ masa 'ttisās al-nāfīd ʔaw intišārih 'powerful breaking through\airflow (as under expulsion or removal [of s.th.]) to its outside, accompanied by its expansion\widening or spreading' → BSV: tard wa-ʔibsād 'expulsion\ejection and removal' 28
- /q/ = tağammus (mutasaqqid) dū hiddat fī bāṭin al-šay? ?aw sumqih (qad yunfad [or: yan-fud?] minhu) '(dense\complex and) sharp concentration (deep) inside of s.th. (through it a breakthrough\eruption\emittance may happen' → BSV: tasaqqud wa-'štidād fī 'l-sumq' 'hardening\clotting\concentration and intensity deep down'
- /k/ = daġṭ ġaʔūrī² maʕa ḥiddaï ʔaw diqqaï 'pressure in the depths accompanied by sharpness\vehemence or precision\fineness' → BSV: daġṭ ġaʔūrī daqīq yuʔaddī ʔilà 'mti-sāk ʔaw qaṭʕ 'fine\precise pressure\emphasis deep down (?) causing retention or interruption' 30
- /l/ = naws min al-imtidād min šay? ka'l-tasalluq masa tamayyuz ?aw istiqlāl 'a kind of extending from something, as if clinging (to it) while (at the same time) distinguishing itself, or making itself independent (from it)' \rightarrow BSV: tasalluq ?aw imtidād masa 'stiqlāl ?aw tamayyuz 'adhesion\cohesion\attachment\clinging (to s.th.), or extending (from it), accompanied by separation and distinction'
- /m/ = taḍāmm ʔaw istiwāʔ zāhirī li-šayʔ ʔaw ʕalà šayʔ 'union\conjunction, or an outward equalisation of/adjustment to s.th.' → BSV: imtisāk ʔaw istiwāʔ zāhirī 'retention or outward levelling'³¹
- /n/ = imtidād laṭīf fī ğawf ?aw bāṭin ğirm ?aw minhu 'subtle extension\expansion\continuation in the innermost or inside of a body\object\tube, or from it' → BSV: imtidād laṭīf fī 'l-bāṭin ?aw min-hu 'subtle extension\expansion inside, or from inside'
 - other), or is it meant to express some other kind of combining ('against', 'as opposed to, contrary to')?
- 28 GABAL's description seems to focus on the constriction (*bi-quwwat*!) of the airflow in the fricative, while his *ittisā*s abd/or *intišā*r do not have a direct correspondence in Western characterisations of the sound, which only take into account the place of articulation (labiodental) and the moment the air passes through the channel, not however what happens 'outside', during articulation (air escapes and spreads).
- 29 I was unable to track down the word $\dot{g}a\partial\bar{u}r$ from which this adjective obviously is a nisba formation. It seems clear, however, that it has something to do with $\dot{g}awr$, i.e., a profound, unfathomable depth.
- 30 'Pressure' and 'vehemence' can probably be related to the characteristic features of a plosive, while 'precision\fineness' may be seen as resulting from the articulation at the soft palate.
- 31 For taḍāmm, istiwā?, and imtisāk, cf. probably the closed mouth, lips pressed together; as for zāhirī, GABAL seems to regard /m/ primarily as a 'surface phenomenon'; the 'levelling' or 'adjustment' of s.th., or against s.th., is most likely taken from the fact that the lips meet each other and 'unite' to produce this bilabial.

- /h/ = farāġ al-ǧawf ?aw ?ifrāġ mā fīh bi-quwwat 'emptiness of a cavity, or emptying it by force' → BSV: farāġ ?aw ?ifrāġ 'emptiness or emptying' 32
- /w/ = ištimāl wa-'htiwā? 'encompassing\including\comprising and containing' → BSV: ištimāl 'comprehensive inclusion'

/y/ = ittiṣāl al-mumtadd šay?^{an} wāḥid^{an}, wa-Sadam tafarruqih ?aw tasayyubih 'the reaching out of an extension to something (?)³³ without separating from it or leaving it'

→ BSV: ittisāl 'connection'

Gabal then goes on and collates these feaures with the basic semantic values that one gets by examining words in which the respective consonants appear in their 'purest', concentrated form, i.e., where they feature 'alone' and their value is not 'contaminated' by any additional element. For example, in order to determine the basic value of /b/, he searches the Arabic lexicon for words that contain as many b-s as possible and finds that the essential value of b/, in its most condensed form, must be represented in babbat 'well-nourished youth, thick, fat, brawny', because this word contains not less than three b-s (and only the fem. suffix $-a\ddot{t}$, which is irrelevant for the basic meaning).³⁴ Given that neither vowels nor hamz and semivowels count as particularly 'contaminating' ingrediences, words containing these elements can be used in the extraction process, too. Thus, for the identification of the basic semantic value of /d/, not only dad 'play, sport' and dadid 'joking' are relevant, but also, e.g., ?idd 'misfortune, adversity' or 2adīd 'difficult, serious (affair)'. 35 Gabal is convinced that this method allows for a 'natural, unconstrained, unmannered' (dūn takalluf) reconstruction of basic representatives of the consonants' masnà lugawī sāmm. The second criterion that helps him to identify the basic semantic value of a consonant and also to double-check a hypothesis arrived at with the first method, is the consonant's 'taste': depending on where and how it is articulated it comes with a certain $mad\bar{q}q$, i.e., a way how 'it feels' to utter or hear it.³⁶ Thus, phonetics (as described above) and semantics are closely intertwined.

The author is consistent in his mimophonic approach in that he does not limit the sound-meaning correspondence to the modifying C_3 consonants; he also applies it to the nuclei and, in the last consequence, to the lexicon as a whole. That is, while the basic value $(ma Sn \grave{a} mi \rlap/h war \bar{\imath})$ of a triradical root is explained as the product of the modification made on a $C_1 C_2$ kernel by a C_3 complement of a certain sound quality and, hence, semantic function, the basic values of the $C_1 C_2$ kernels themselves are explained as the result of the inter-

³² GABAL's 'cavity' can perhaps be seen as corresponding to the glottal place of articulation ('deep down'), while the 'emptiness' could be seen together with the fact that /h/ is often regarded as the counterpart of the vowel that follows it.

³³ WELLNHOFER (see note 14, above) proposes: 'connecting the extended as one thing (?)'. – Neither my own nor Wellnhofer's renderings seem fully convincing, so both will remain with a big question mark attached to them.

³⁴ MuSğam, i: 25. – The word GABAL builds his argument on is not found in LANE's Lexicon; cf., however, HAVA, Arabic-English Dictionary: babb and babbān 'fat baby'; and DOZY, Supplément: babbaï 'nom qu'on donne à un très-petit enfant'.

³⁵ Meanings given as in HAVA's Arabic-English Dictionary.

³⁶ Gabal mentions that already al-XALĪL b. ?Aḥmad dealt with notions of <code>dawq</code> or <code>tadawwuq - Musgam</code>, i: 25.

play between the two consonants from which they are formed; each having peculiar phonological features, which in turn each carry a certain meaning, their combination in the nuclei produces unique semantic notions.

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Gabal's and Western approaches compared

In the following, I will treat the main differences, but also overlappings between Gabal's approach and Western views on the composition and development of the Arabic lexicon.

Synchrony vs. diachrony

An essential difference between Gabal (as also the traditional Arab lexicographers) and most Western Arabists lies in the very perception of language as such. While most scholars in the West deal with linguistic phenomena as something subject to change in time, i.e., reflecting a certain stage in a historical development, Gabal, like his classical predecessors, is either not interested in diachrony or regards the language he studies as an unchanging, somehow "eternal" entity. Any statement he makes about 'derivation' ($ištiq\bar{a}q$) is therefore never intended in the sense of a development ("X developed from/into Y"), but rather as a description of a (static) condition. Thus, his approach does not differ from traditional Arabic $ištiq\bar{a}q$ which, according to Fleisch,

introduces no historical perspective into the study of the language. The relations or origins that are detected form merely part of the revealed language and are given with it.³⁸

Consequently, and unlike in many Western biradicalist theories, the segmentation of triradical 'structures' into biconsonantal nuclei + modifiers is in Gabal's approach never meant as mirroring a *process* in which one would have to assume historical priority, in an *earlier* stage of the language's history, of the nucleus, to which *then*, *later* were added the modifiers; for Gabal, the discovery and description of the nuclei is rather a way of bringing some kind of logical order into the otherwise seemingly arbitrary composition of the Arabic lexicon. With this systematisation, Gabal says, he continues, fully develops, and completes, the work of classical lexicographers and grammarians like Ibn Fāris (d. 395 AH), al-Zamaxšarī (d. 538 AH) and al-ʔĀlūsī (d. 1137 AH). He does not seem to be aware, how-

³⁷ The author does not neglect the existence of borrowings from other languages (daxīl, musarrab) (Musgam, i: 10) but remains silent about their historical background or the periods of borrowing.

³⁸ Henri FLEISCH, "Ishtiķāķ", in EI², iv (1973).

³⁹ Cf., in contrast, a statement like Christopher Ehret's: "If we are right in assuming that the thirty-seven extensions had become non-productive, and the forms containing them lexicalized, by the Proto-Semitic period, then the meanings identified for them by internal reconstruction must be projected back to the last point in time at which they were still productive, i.e., pre-Proto-Semitic. Once lexicalization had taken place, they would no longer have been subject to a shift in function or meaning, except insofar as the words of which they had become a part underwent meaning change" – EHRET, "The origin" (see fn. 55), 112.

⁴⁰ These three authorities are mentioned by GABAL himself (MuSgam, i: 21,), in particular IBN FARIS,

ever, of the old debate, going on in Western research since more than a century now, about "whether or not biradical roots *historically* preceded triradical ones". 41

This said, we may add, however, as a note on the margin, that Gabal's argumentation probably is not totally free from a sense of, and for, historical development. Although the author does not go as far as to speak of 'origins' (which would imply historicity, a starting point to which a development could be traced back in time) but rather prefers the term ma?xad 'source' (avoiding a temporal implication and referring to a deeper structure instead), he nevertheless does assume, though perhaps only implicitly, some kind of development when he confirms the view of the classical lexicographers that the 'purest', i.e., unadultered, variety of Arabic was that of the Bedouins in the desert. The criterion that, in Gabal's eyes, confirms that a hypothetical 'essential, basic' value of a root or nucleus really is the masnà miḥwarī, the 'central value' the identification of which is the aim of all his efforts and from which all other values can be explained ('derived from'), is its carrying 'a Bedouin flavour' (ʔarīǧ ʕarabī), its 'smelling of the [Bedouin] environment' (rāʔiḥat albī?at – Musĕam, i: 11). That is, Gabal obviously takes for granted that a certain "contamination" or confusing diversification has happened to the Arabic language after an early, Bedouin stage and that it is now the lexicologist's task to trace the many meanings within one root back to the original, "authentic" one. For the Muslim believer, this is essential because a correct understanding of the Qur'an will not be possible unless the original meanings of the words are known (ibid.).

Biradicality vs. Triradicality

Classical Arabic *ištiqāq* denies the existence of biradical roots; it always operates with triradical roots as the language's "minimal templates". ⁴² Even though Gabal further segments triradical roots into biradical nuclei plus modifiers and applies this segmentation *systematically* to the whole lexicon, he still does not touch on the principle of a basic triradicalism as such—this is why I labeled his approach a 'biradicalist triradicalism' in the title of this article. Nor does Gabal oppose the view that "[a]ltering the position of any of the radicals would cause a complete change in the meaning". ⁴³ In this respect, his approach does not go beyond the confines of what classical Arabic linguists usually term *al-ištiqāq al-ṣaġār* (or *al-ʔaṣġar*) 'the small(er) derivation (lit., splitting)'. Cases where identical radicals feature in different positions but the two corresponding roots nevertheless carry the same sense (e.g., ĞDB ~ ĞBD), i.e., where one has to apply the so-called *ištiqāq kabīr* in order to 'derive' a metathetical form from another, non-metathetical one, are of no interest to Gabal. There is, however, a certain overlapping when it comes to the so-called *ištiqāq*

 $Maq\bar{a}y\bar{\imath}s$ al- $luga\bar{\imath}$, section on \sqrt{ZLL} ; al-ZAMAXŠAR $\bar{\imath}$, al- $Kašša\bar{\jmath}$, commentary on Q 2:1 and sections on \sqrt{NFQ} and \sqrt{FLH} ; and al- $2\bar{A}L\bar{U}S\bar{\imath}$, as Zamaxšar $\bar{\imath}$, $Kašša\bar{\jmath}$, plus his discussion of $dul\bar{\imath}uk$ (Q 17:78). However, the author continues, none of the three had further elaborated on the way how the third radicals modified the meaning of the nuclei ($MuS\check{\jmath}am$, i: 22).

⁴¹ EDZARD, review of VOIGT 1988, 158 (my emphasis, S.G.).

⁴² CHEKAYRI, "Ištiqāq". – For an example of the discussions that unfolded among Arab linguists when the third radical was invisible and not easy to determine, cf. Simona OLIVIERI's contribution on *ism* in the present *dossier spécial*, pp. 72 ff.

⁴³ CHEKAYRI, "Ištiqāq".

?akbar, the 'largest derivation,' invented by Ibn Ğinnī. ⁴⁴ Here, "neither the actual sense of the root nor the order of succession [of the radicals] are preserved," ⁴⁵ nevertheless a sense that is common to some possible combinations can be extracted. For example, among the six roots that all contain the radicals Q, L and $W = \sqrt{QLW}$, \sqrt{QWL} , \sqrt{WQL} , \sqrt{WLQ} , \sqrt{LQW} , \sqrt{LWQ} , all of which are realised in the language—Ibn Ğinnī found a semantic denominator for most of them, namely al- $xuf\bar{u}f$ wa'l- $haraka\ddot{u}$ 'haste and movement.'

Gabal makes a similar effort, but the example just quoted would be considered by him only because it happens to contain a W, i.e., a weak radical, which he does not count as a full consonant but only as a kind of augment⁴⁷ (see above), and only because, if W remains unconsidered, we get roots that share the relative succession of the main (i.e., strong) radicals. Thus, for Gabal, the six roots above can be divided into two groups: one showing the QL sequence (\sqrt{QLw} , \sqrt{QwL} , \sqrt{wQL}) and another showing LQ (\sqrt{LQw} , \sqrt{LwQ} , \sqrt{wLQ}). A similar grouping would however not be possible, say, for \sqrt{SLM} , \sqrt{SML} , \sqrt{LMS} , \sqrt{LSM} , \sqrt{MSL} , and \sqrt{MLS} , which, Ibn Ğinnī found, all shared the idea of a certain 'gentleness', or for the six possible combinations of K, L, and M (all expressing the idea of 'force'). While each of the two groups of six roots is composed of identical radicals, none shows reduplication, or a weak consonant, or 2, and this is why Gabal treats them all as belonging to different semantic "chapters", according to their initial nuclei: SL-, SM-, LM-, LS-, MS-, ML-, and KL-, KM-, LK-, LM-, MK-, ML-, respectively.

The fact, observed already by some medieval Arab linguists (see above), that triradical roots with identical C_1C_2 sequences (sometimes also $C_1...C_3$, and sometimes even not exactly identical, but only similar phonological features of two radicals) often have a common semantic denominator, is uncontested in Arabic (and other Semitic) studies in the West⁴⁹ and has some corresponding views in the indigenous Arab tradition as well. As already mentioned above, in this respect Gabal sees himself as the successor and ultimate perfection of Ibn Fāris, al-Zamaxšarī and al- $?\bar{A}l\bar{u}s\bar{s}$. But how does his approach overlap with, or contradict, Western positions in this critical question?

Western scholars have focused on a variety of phenomena and also drawn various conclusions from their observations.

One whose approach is also essentially *mimophonic* (see below) and, like Gabal's, pri-

⁴⁴ According to Henri FLEISCH, "Ishtiķāķ", the idea is set out in the *Xaṣāʔiṣ* (Cairo 1371/1952, i: 5-17 and Cairo 1374/1955, ii: 133-9).

⁴⁵ Ibid.

⁴⁶ Ibid.

⁴⁷ On augments, cf., e.g., the example and the explanation given by CHEKAYRI, "Ištiqāq": "The three forms ?alandad, yalandad, and ?aladd are derived from the root l-d-d, which carries the semantic load 'to dispute violently'. According to ištiqāq, the glottal stop at the beginning of the word followed by three consonants is analyzed as an augment. The nonvocalized n in the third position and the reduplicated radical are perceived as augments as well."

⁴⁸ George BOHAS, "Lexicon: Matrix and Etymon", in *EALL*, iii (2008), referring to IBN ĞINNĪ, *Xaṣāʔiṣ*, i: 133-139.

⁴⁹ Cf. EHRET, "The origin" (see fn. 55), 110: "In Arabic and other Semitic languages it has long been evident that there are numerous sets of triliteral roots that share similar or related meanings and are formally identical except in their third consonants."

marily a *synchronic* description is George Bohas' theory of *matrices et étymons*. Like Gabal, Bohas argues "that the [traditional] lexicographical classification of words by alphabetical order of their roots masks important semantico-phonetic regularities," namely that many lexical items containing an identical *binary* combination of traits often belong to the same larger semantic fields. While this opinion is shared by many others, including Gabal, Bohas is unique (in the West, but in a way following the path sketched by Ibn Činnī and the $i\check{s}tiq\bar{a}q$?akbar) in allowing for a "*nonlinear* ordering of the constituent parts" within his binary nuclei (e.g., $BT \sim TB$ 'to cut, cut off') or even allowing these elements to be preceded, separated, or followed by a third element (marked bold in the following; cf., e.g., BaTaKa 'to cut, cut off, severe, pluck out, cut off one's tail', inBaTa?a 'to be cut off', BaTaLa 'to cut off, severe, separate', $BuRT \sim BaRT$ 'axe', BaLaTa 'to cut off', SaBaTa 'to cut s.th., cut it off; to shave one's hair, shaved his head').

Most other Western theories that, like Gabal's, segment triradical roots into biradical nuclei plus augment/increment/modifier/extension⁵³ combine their analysis of the lexicon with a *diachronic* approach in which the nucleus represents an earlier, more original stage

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#1497 AfrAs *kum- 'to take, get' > Sem *\hbarVkum- 'to take' > Ar \sqrt{H}KM(u)
(prefix *hV-):
                     #966 Afr As *go_3- 'woman' > Sem *\mathfrak{S}ag\bar{u}z- 'old woman' > Ar \mathfrak{S}a\check{g}\bar{u}z
(prefix *\mathcal{S}V-):
                     #1609 AfrAs *kurab- 'insect' > Sem *fakrab- 'scorpion' > Ar faqrab
                     #524AfrAs *\acute{c}ag- 'to mix' > Sem *mV\acute{s}ug- 'to mix' > Ar \sqrt{M}\check{S}\check{G}(u)
(prefix *mV-):
                     **^{#1458}AfrAs **^{kin}- 'egg' > Sem **^{m}Vkan- 'to lay eggs' > Ar ^{\sqrt{MKN}}(a)
                     #506 Afr As *\check{c}ar- 'look, see' > Sem *nVtar- 'to guard, look' > Ar \sqrt{NZR} (a)
(prefix *nV-):
                     #516 AfrAs *\dot{c}a?-/*\dot{c}aw/y- 'to move upwards' > Sem *nV\dot{s}a?- 'to rise, grow, raise' > Ar
                        \sqrt{N}Š? (a, u)
                     #549AfrAs *\acute{c}ek- 'to smell' (trans.) > Sem *nV\acute{s}ak- 'dto.' > Ar \sqrt{N}\check{S}Q (a)
                     **557 AfrAs **\acute{c}ip- 'to moisten, be wet' > Sem **nV\acute{s}ap- 'to absorb (liquids)' > Ar \sqrt{NSF}
                        (a, u)
                     #594 AfrAs *da?-l*daw- 'to be wet' > Sem *nVdaw/y- 'dto.' > Ar \sqrt{NDW}, NDY (a) #1157 AfrAs *ham- 'to eat' > Sem *nVham- 'to be insatiable' > Ar \sqrt{NHM} (a)
                     **1976 AfrAs **pi\check{c}- 'to spit' > Sem **nVpi\underline{t}- 'dto.' > Ar \sqrt{NF}\underline{T}(i, u)
                     #974 AfrAs *gud- 'to find, seek' > Sem *wVgVd- 'to find, meet' > Ar \sqrt{W\check{G}D}
(prefix *wV-):
                     #1183 AfrAs *hob- 'to give, send' > Sem *wVhVb- 'to give' > Ar \sqrt{WHB}
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⁵⁰ The main publications in which the theory is developed and elaborated upon in detail are probably the following three: Georges BOHAS, *Matrices, étymons, racines: Eléments d'une théorie lexicologique du vocabulaire arabe*, Paris and Louvain: Peeters, 1997; ID., *Matrices et étymons: Développements de la théorie*, Lausanne: Editions du Zèbre, 2000; and ID. and Mihai DAT, *Une théorie de l'organisation du lexique des langues sémitiques: Matrices et étymons*, Lyon: ENS Éditions, 2007.

⁵¹ Mirena MEHANDJIYSKA, review of BOHAS 1997, *Middle East Studies Association Bulletin*, 32/2: 177-78, 177. – In fact, for BOHAS, "the triconsonantal root is no linguistic reality but merely a grammatical tool" – HASSELBACH, review of BOHAS & DAT 2007, 28.

⁵² Examples as in BOHAS, "Lexicon: Matrix and Etymon". My emphasis, S.G.

⁵³ In Western theory, the segmentation of existing roots into 'core roots' plus augment is not necessarily of the kind we are dealing with in the present article, i.e., C_1C_2 - plus $-C_3$. OREL & STOLBOVA, for instance, think they have discovered, or would at least not exclude the possibility of, a number of *prefixes* rather than extensions added at the *end*. Cf., e.g., the following items in *HSED* (a choice of items where the assumed prefix was added in Semitic while it seems sensible to assume its absence from Afroasiatic):

of linguistic development (a claim that Gabal does not make, as we have seen above).⁵⁴ At the same time, these theories resemble Gabal's in that the order of the two constituents within the biradical nuclei is unchangeable (as opposed to Bohas' unspecified sequence). The Western approach to which Gabal's probably comes closest in terms of a systematic segmentation (nuclei + modifiers) and the non-flexibility of position of C_1 and C_2 within the C_1C_2 - nuclei (*linearity*) is probably Christopher **Ehret**'s. ⁵⁵ It is true that Ehret, unlike Gabal, does not treat 2, W and Y as different from other consonants and that he therefore does not allow them to precede or 'invade' his nuclei; and it is also true that Ehret does not claim the segmentability of all triradicals (he only deals with it a widespread phenomenon, evidently applicable to "numerous sets of triliteral roots", apart from these differences, however, Ehret's and Gabal's analysis of the Arabic lexicon are very similar. They are particularly similar in the degree of comprehensiveness and systematization with which they assign certain meanings to certain C_3 modifiers. In Gabal's mimophonic view the meanings are generated somehow "naturally", while in Ehret's theory they seem to be arbitrary, the results of mere convention; both approaches, however, take the geminating verbs as starting point for their identification of the meanings of the unmodified nuclei, and then proceed to list the triradical $C_1C_2+C_3$ roots and explain their meanings as results of a regular and systematic structure in which each modifier C_3 has a clearly specified function.⁵⁷ Here are some examples of how Ehret and Gabal describe the value and effect of the C_3 -s when following a nucleus:

⁵⁴ For Ehret, "[t]he proportion of seemingly irreducible triconsonantal roots in Semitic is a pattern unparalleled among the world's languages," and this is why "the triliterals are suspect as morphologically extended forms of once-simpler roots" – EHRET, "The origin" (see fn. 55), 109.

First developed in length in Christopher EHRET, "The origin of third consonants in Semitic roots: An internal reconstruction (applied to Arabic)", *Journal of Afroasiatic Languages*, 2/2 (1989): 107-202, and id., *Reconstructing Proto-Afroasiatic (Proto-Afrasian): Vowels, tone, consonants, and vocabulary*, Berkeley and Los Angeles: University of California Press, 1995. – Other suggestions for some suffixes had already been made earlier, though by far not as comprehensive as in Ehret's model, by I.M. DIA-KONOFF in his "Problems of root structure in proto-Semitic," *Archiv Orientální*, 38 (1970): 453-480. In this article, the author suggested to assume that many animal names in Semitic could be analysed as originating in a core root/body to which a "postpositive determinant" (almost resembling a word class suffix) was added, e.g., *-b for "animals of prey and harmful animals" (Ar *ʔarn-ab* 'hare', *dub-b* 'bear', *diʔ-b* 'wolf', *dub-āb* 'fly', *kal-b* 'dog', *⟨aqr-ab* 'scorpion', *ta⟨l-ab* 'fox'; cf. also *⟨ank-ab-ūt* 'spider', *gur-āb* 'crow, raven'), *-r for "useful animals" (Ar *ʔimm-ar* 'ram', *baq-ar* 'cow', *him-ār* 'ass', *kar-r* 'lamb', *⟨ay-r* 'ass-foal', *taw-r* 'ox'), and *-l for "wild useful animals" (Ar *ʔayy-al* 'deer', *ğam-al* 'camel', *nayy-al* 'a sort of antelope', *⟨iğ-l* 'calf', orig. 'young antelope'), etc. – DIAKONOFF, op.cit., 461-2, n. 23; cf. also LIPIŃSKI, *Semitic Languages*, #30.10.

⁵⁶ EHRET, "The origin," 110 (my emphasis, S.G.).

⁵⁷ I think Gabal wouldn't have had any difficulty to accept a statement by Ehret like the following: "When the verb members of such sets [of triliteral roots that share similar or related meanings and are formally identical except in their third consonants] are grouped according to their third consonants, there emerge recurrent correlations between the presence of particular consonants in C₃ (third) position and the presence of particular varieties of meaning modification in the roots containing those C₃. [...] the correlations of meaning and form are remarkably consistent, and the case to be made is therefore exceedingly strong" (EHRET, "The origin", 110; my italics, S.G.). – The fact that the augments in Gabal's and Ehret's models do have a semantic purpose marks a major point of difference between these two theories, on the one hand, and Bohas & Dat's model, on the other; "according to Bohas and Dat, there is no functional difference between adding a guttural, glide, or other consonant. That is, the

Stephan Guth

$-C_3$	Ehret 1989	Gabal 2012
-/t/	durative	'fine, but sharpaccentuated pressure, giving the meaning of a weak retention or interruption' (dagt bi-diqqat wa-hiddat yata?attà minhu masnà 'l-imtisāk al-dasīf wa-masnà 'l-qaṭs)
-/0/	diffusive	'solidity\compactness or coarseness combined with spreading\dif- fusion' (katāfat ?aw ġilaz masa tafašš ⁱⁿ)
-/ਰ੍ਹ/	finitive fortative	'delicate\fragile\gentle concentration that has a certain sharp- ness\markedness\vehemence\pitch\precision about it' (taǧammus hašš masa ḥiddat mā)
-/ħ/	iterative	'friction bi-Siraḍ and dryness' (iḥtikāk bi-Siraḍ wa-ǧafāf)
-/d/	durative	'blocking\obstruction\occlusion, accompanied by pressure and extension\broadening' (ihtibās bi-dagt wa-'mtidād)
-/ð/	extendative fortative	'permeable thickness/thick\broad airflow, showing a certain softness\laxity\relaxation and coarseness' (nafād taxīn dū raxāwain mā wa-gilaz)
-/r/	diffusive	'a letting go\releasing, (but) with some retention\cohesiveness' (istirsāl ma\hat{s}a tamāsuk^{in} m\bar{a})
-/z/	intensive (of manner)	'compactness and compression' (iktināz wa-'zdiḥām)
-/s/	non-finitive	'continuation\persistence\prolongation, accompanied by fine- ness\precision and intensity\sharpness' (imtidād bi-diqqat wa- hiddat)
-/‡/	durative intensive	'stress\pressure\emphasis accompanied by widening and thickening\hardening\tendency to coarseness' (al-daġṭ bi-'ttisās wa-'stiġlāz)
-/\$/	partive	'fusion\union\cohesion with (?) a thinness accompanied by some sharpness' (iltiḥām Ṣalà riqqat maṢa ḥiddat ⁱⁿ mā)
-/1/	finitive	'adhesion\cohesion\attachment\clinging (to s.th.), or extending (from it), accompanied by separation and distinction' (tafalluq ?aw imtidād masa 'stiqlāl ?aw tamayyuz)
-/m/	extendative	'retention or outward levelling' (imtisāk ?aw istiwā? zāhirī)
-/n/	non-finitive	'subtle extension\expansion\continuation inside, or from inside' (imtidād laṭīf fī 'l-bāṭin ?aw minhu)
-/h/	amplificative	'emptiness or emptying' (farāģ ?aw ?ifrāģ)

The similarity of Gabal's and Ehret's description of the Arabic root inventory notwithstanding, a major difference between both approaches is, as we saw, the fact that Ehret thinks of the modifier C_3 -s as 'extensions' that were added *at a later stage* to historically preceding 'pre-Protosemitic' biradical roots, while Gabal's approach is ahistoric. In principle, he does not touch the classical tenet of an essential triradicalism; for him, the segmentation of $C_1C_2C_3$ patterns into C_1C_2 nuclei + modifier C_3 -s only serves the explanation of what he perceives as semantic regularities within a language that he treats as a static sys-

augments themselves have no semantic or grammatical purpose that could explain why each is added in a specific instance" – HASSELBACH 2008 (see note 5), 375.

tem. With this view, Gabal, in a way, comes close, on the other hand, to Voigt who, in his seminal study on the biradicalism problem (see fn. 4, above), argued "that triradical roots need not be explained as expansions of biradical roots"; the semantic similarity that can be observed in many triradical roots with identical C_1C_2 should rather be looked at as the result of "later analogical abstraction, a phenomenon of iconicity rather than algorithmic expansion". 58 For Voigt, the only group of roots for which it seems to make sense to assume a biradical origin are the geminated ones $(C_1C_2)^{59}$ in his view, all attempts to derive triradical roots from biradical "core roots" are methodologically insufficient and have to be regarded as failed. 61 Thus, for Voigt, like for Gabal, the inventory of Arabic roots consists mainly of triradical as well as a number of geminated roots. The difference between the two scholars' conceptions of triliteral roots that share similar or related meanings and are formally identical except in their third consonants⁶² lies in their explanation of the C_3 elements: While for Gabal they have the quality of modifiers of the C_1C_2 nuclei, each endowed with a specific semantic function, for Voigt the roots in question are not composed of such "nuclei" plus modifying C_3 -s; root variation can, and should, rather be explained as the result of what he calls "Reimwortbildung", i.e., "rhyming" assimilation or analogous imitation of existing (triradical) precedents, or, as Hasselbach puts it: "words that have similar meanings tend to assimilate on a phonetic level. Similarly, words that are similar in meaning and sound also tend to become closer in meaning". 63

Mimophony vs. arbitrariness of meaning

As already explained above, Gabal's approach is strictly mimophonic, i.e., he regards (and does not grow tired to explain) the original meaning of a root as the somehow natural result of an interplay between the sounds that come together in it. Language, for him, is thus ultimately (built on) onomatopoeia. Unlike some classical Arab scholars who, as Gabal is well aware, ⁶⁴ often identify two or more values for one root (see above), Gabal is always eager to find the *one* "central meaning" (*masnà miḥwarī*) from which he can "derive" all the others. While he remains strictly consistent in this respect the diversification of meaning—which he cannot neglect, but which in itself is a *development*—is obviously seen as the result of the activity of the human brain (widening, narrowing, figurative use, etc.) and, thus, of acts of convention that took place *after* the original meaning was given (by nature/God).

⁵⁸ EDZARD, review of VOIGT 1988, 158-9.

⁵⁹ Cf. VOIGT, *Die infirmen Verbaltypen*, 209 / FISCHER, review of VOIGT 1988, 129. – One of the reasons for this acknowledgement is the pervasive existence, alongside with geminated roots, of reduplicated forms (\sqrt{QSQS} alongside with \sqrt{QSS} , \sqrt{FTFT} alongside with \sqrt{FTS} , \sqrt{GLGL} alongside with \sqrt{GLS} , etc.) which can hardly be explained other than as originating in biradicals.

⁶⁰ EDZARD's term, in his review of VOIGT 1988, 159.

⁶¹ FISCHER, op.cit. 129, paraphrasing VOIGT's main argument.

⁶² Cf. note 49 above.

⁶³ HASSELBACH, op.cit. (see note 5), 374, referring to VOIGT, Die infirmen Verbaltypen, 81.

⁶⁴ He mentions IBN FĀRIS and al-RĀĢIB al-IŞFAHĀNĪ – Muſǧam, i: 12, fn. 1.

The question of whether or not meaning in a language is conditioned by sounds and combinations of sounds is, of course, a very old one. In contemporary Western linguistics, the Saussure'ian axiom of an essential arbitrariness in the assignment of meaning to sounds in any language can certainly be taken as the *communis opinio*. Thus, it is presented, for instance, in a standard reference work like Bußmann's *Lexikon der Sprachwissenschaft*, as a basic fact:

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Arbitrarität [...] Grundlegende Eigenschaft von sprachlichen Zeichen, die besagt, dass zwischen dem Bezeichnenden (= Lautbild, Zeichengestalt) und dem Bezeichneten eine beliebige, nicht naturnotwendige [...] Beziehung besteht. [...] DE SAUS-SURE [1916] [...] belegt die Beliebigkeit dieser Verbindung durch die Tatsache, dass dasselbe Objekt der Realität von Sprache zu Sprache verschieden benannt wird. 65

As a consequence, prevailing opinion tends to regard as exceptions from the general rule those cases in which languages seek to imitate givens of the real world and where lexemes are motivated somehow "naturally". But even in these instances of onomatopoeia, the result of imitation usually is not completely identical among the languages and may differ considerably from one to another (cf., e.g., Engl *cock-a-doodle-doo*, Fr *cocorico*, Russ *kukarekú*, Ge *kikerikí*, Swiss Ge *güggerügü*, Ar *kūkūkūk*, Tu *gukiriku*, *kukuriko*, Pers *ququli ququ*, Chin *wō-wō*, etc.). ⁶⁶

In contrast, traditional Arabic linguistics tended to assume in principle a "natural" relation between sound and meaning, without however developing it into a fully-fledged system. Yet, as a treatise like Karamat Husein's *The Imitative Origin of Arabic Primary Roots* of 1903 shows, the basic idea seems to have been preserved from classical times into the twentieth century, ⁶⁷ and it was taken up again, as we saw, not only by Gabal ⁶⁸ but also by a Western scholar like Georges Bohas, ⁶⁹ who has been able, since the mid-/late 1990s, to

⁶⁵ BUBMANN (ed.), Lexikon der Sprachwissenschaft, 54-55. In my own translation: "Arbitrariness [... is a] fundamental characteristic of linguistic signs; it means that the relation between the signifier (= sound, written/drawn character) and the signified is arbitrary, not motivated by natural givens [...]. To prove the arbitrariness of this relation, DE SAUSSURE [1916] [...] points to the fact that the same real world object is named differently from language to language."

⁶⁶ Cf. ibid., 494, entry on "Onomatopoiie".

Here, we can read—to quote only one among many other amazing-amusing passages—the author's ideas in the beginning of a chapter he calls "Embryology": "The primitive Arabs had [...] keen external senses, fertile poetical imagination and good intellect. Their climate was warm and they, in search of water and pasture, moved from place to place. They led a camp life and were in direct contact with Nature. They therefore continually heard the various sounds emitted by animate and inanimate things. Rustlings, murmurings, clatterings, rattlings [sic!], clinkings, jinglings, whizzings, buzzings, hummings, gurglings, croakings, hissings, chirppings [sic!], howlings, whisperings, sobbings, sighings, produced in them subjective impressions of sound which, besides being the result of a mode of molar motion, were felt by them to be like the objective sounds. This may not be scienefically [sic!] true, but there can be no doubt that a likeness between the two was felt" – HUSEIN, Imitative Origin, 17.

⁶⁸ Cf. GABAL's remarks, referred to above (p. 8), on the purity of the language of the Bedouins and the "taste of the desert" that one gets from the unadulterated stages of the language.

⁶⁹ With his suggestion that, in Hasselbach's paraphrase, "on a purely diachronic level, the combinations of phonetic features and notions seem to be tightly linked to the capacities of the first speakers to imi-

gather a circle, if not a veritable "school", of like-minded disciples and colleagues around himself, a fact that has resulted in the splitting of the scholarly community into a (comparatively small) pro-Bohas'ian and a (large, majoritarian) anti-Bohas'ian camp. It is not the purpose of the present article to discuss again the arguments of both camps. ⁷⁰ However, what I think can be useful for anybody who consults Gabal's *Musgam*—which, I believe, may be beneficial (see below) in spite of the ultimate untenability of its basic approach—is to contrast his method with the Bohas'ian one in order to determine its place among the "mimophoneticians".

(1) One major difference is certainly the fact Gabal still shares with mainstream linguistics the "common assumption that the *phoneme* is the most basic meaning differentiating unit," while Bohas "considers *phonetic* features the ultimate distinctive units of a language that cannot be divided further". Gabal thus remains on the level of what Bohas calls the "etymon" (abb. ε) while Bohas himself goes a step farther in that he postulates a "combination of elements [...] such as [labial], [coronal], [+/-voice], [fricative], etc.", i.e., the so-called "matrix" (abb. μ), to "carry the basic semantic notion of a given stock of words". Therefore, even though the articulation of the consonants are of key importance also for Gabal, his "nuclei" (fuṣūl musgamiyyah) are less comparable to Bohas' matrices than to his étymons, i.e., the combinations of two phonemes, like, for example, {q, s}, {k, t}, {g, d}, and {k, s}. While in Bohas' theory, all of the latter are generated by one and the same matrix, namely μ {[coronal], [dorsal]} 'to cut, decide, tear, destroy, death', Gabal does not see combinations of Q and S, K and T, Ğ and D, or K and S as belonging together under one overarching semantic "roof".

Other differences have already been mentioned above:

- (2) In his mimophonic explanations Gabal is more consistent than Bohas. While Gabal's approach covers both, the biconsonantal nuclei *and* the modifiers, Bohas's (and Dat's) mimophony applies to their *matrices et étymons* only, while "the augments themselves have no semantic or grammatical purpose that could explain why each is added in a specific instance".⁷²
- (3) Linearity vs. interchangeability of elements within the biconsonantal nuclei: To take up the above example, while for Gabal QS- and SQ- are two distinct bases, Bohas would treat them as two (of several other) possible realisations of ϵ {q, s}. The same goes for KT- and TK- vs. ϵ {k, t}; $\check{G}D$ and $D\check{G}$ vs. ϵ { \check{g} , d}; as well as KS- and SK- vs. ϵ {k, s}.
- (4) Position of additional modifiers: With the exception of *hamz* and the "weak" consonants/semivowels W and Y, the only position in which Gabal considers modifiers is that of C_3 following a C_1C_2 nucleus. In contrast, Bohas'ian "radicals" (abb. R), i.e., the triradical roots that actually exist in the language and constitute autonomous lex-

tate real-world objects phonetically" (HASSELBACH, *op.cit.*, 376, referring to BOHAS & DAT 2007, 193), Bohas comes conspicuously close to Husein's argument, sketched in note 67 above.

⁷⁰ For a concise and sober overview, cf., e.g., HASSELBACH'S review of BOHAS & DAT 2007.

⁷¹ HASSELBACH, op.cit., 373 (my emphasis, S.G.).

⁷² HASSELBACH, op.cit., 375; cf. above, note 57.

emes, are generated from a biconsonantal etymon, e.g. ϵ {b, t}, either (a) by reduplication of the second etymon phoneme (gives \sqrt{BTT}), or (b) the addition of a sonorant (R, L, M, N) or guttural (f, H, H, f) in any position (gives, e.g., inBaTasa and BaTala); (c) by addition of a glide (f, f) by prefixation, as in saBaTa; (e) by adding a final consonant, mostly f or f; or (f) by the merger of two independent etymons, as in bataka (presumably a fusion of f0 {b, t}1 and f0. Interestingly enough, in Bohas' theory, these augmentations "have no significant effect on the semantic range of a given etymon," as Hasselbach rightly observes; in Gabal's theory, only the glides and hamza remain similarly ineffective.

Putting Gabal and Western research in dialogue—the root $\sqrt{\varsigma}RB$, for example

As already stated in the introduction, I do not think that the many shortcomings of Gabal's approach should serve the scholarly community as a justification for an outright rejection of the entire $Mu\mathcal{E}gam$. Let me therefore close this paper with a short demonstration of what Gabal's findings may add to our knowledge, or evidence-based hypotheses, about a sample root whose etymology seems to be particularly difficult to establish. As a case in point may serve Ar (and Sem) \sqrt{SRB} . The semantic diversity within this root is enormous and any attempt to disentangle the complexity seems to be doomed to plunge the etymologist into deep despair. In Modern Standard Arabic alone we have at least six main values⁷⁴ (the list gives some major exponents of each only, not the whole bulk of obvious derivatives):

- ¹ςRB ςarab 'Arab', ςarabī 'Arabic', ςarraba 'to make Arabic, Arabicize, translate into Arabic', γaςraba 'to use desinential inflection, i.e., the γiςrāb'
- ² SRB ?aSraba 'to express, voice, state clearly'
- ³ SRB Sarraba 'to give earnest money, make a down payment (Surbūn)', Sarrāb 'godfather, sponsor'
- ⁴ SRB ¹ Sarabat 'swift river'
- ⁵ SRB ² Sarabat 'carriage, wagon, cart, coach'
- ⁶ SRB (wadī) ³ Sarabai 'the Arabah' (depression to the south of the Dead Sea, Jordan Rift Valley) ⁷⁵

Other values, now obsolete, include:76

- ⁷ςRB [†]ςarib '(well, river) containing/yielding much water, abundance of water'
- ⁸ SRB ^{†4} Sarabat 'soul, mind'

⁷³ HASSELBACH, op.cit., 374.

⁷⁴ Taking the entry SRB in WEHR/COWAN's Dictionary as the database for the survey of the MSA part.

⁷⁵ Not in WEHR/COWAN 1979 but evidently still in use.

⁷⁶ BH = BADAWI/HINDS 1986, F = FREYTAG 1835 [vol. iii], H = HAVA 1899, L = LANE 1874 [vol. v], LZ = LANDBERG/ZETTERSTEIN 1942, W = WAHRMUND 1887.

- ⁹SRB [†]Surbānat '(a sort of) lizard'
- ¹⁰ ΓRB [†] Γarūb (also [F] Γarūbat, Γaribat) 'loving, pleasing, of matching age'; cf. also [F] (denom.) vb. IV, [†] ΓaΓraba 'matrimonium iniit cum femina Γarūb appellata'; should we also compare [LZ] Dat Γarab li-'être bon pour'?
- ¹¹SRB †Sarūbat '(an old, pre-Islamic name for) Friday'
- ¹²ςRB [†]ςarraba 'to incite with lust, arouse (a partner's) sexual appetite', [†]∂aςraba 'to copulate, have sex', [LZ] YemAr ςarab 'to have sex'; cf. also [†]istaςraba, vb. X, '[F] appetivit marem (vacca), [L] to desire the bull (said of a cow)'
- 13 CRB † $Car\bar{a}ba\ddot{t} \sim Cir\bar{a}ba\ddot{t}$ ([W] $\sim Cur\bar{a}ba\ddot{t}$) 'foul speech, obscene talk', and denom. verbs II, IV, X
- ¹⁴ SRB [†] Saraba i (Sarb) 'to eat (much), devour' [F,L,W]; cf. also [LZ] Da<u>t</u>Ar Sarab 'être glouton, grand mangeur', Sarūb 'dévorateur, qui dévore, qui a la fringale'
- ¹⁵ ΓRB [†] Γarib 'bad, corrupt, disordered (stomach)'; cf. also [†] Γariba a (Γarab) 'to be(come) disordered (stomach) (by indegestion)'
- ¹⁶ SRB [†] Sariba a (Sarab) 'to become swollen and purulent, break up again after it had healed ([F,H,W] a wound, [L] a camel's hump), [F,L,H] to leave a scar (wound), have a scar remaining after it has healed'. Cf. also next item?
- ¹⁷SRB DatAr Surbiyyat 'inguinal region, groin; turgor of lymph node' [LZ]
- ¹⁸⟨RB †⟨Sarab ~ ⟨Sarib 'clear, limpid, clean (water, a palmtree, a horse's hoof, language, etc.); pure, genuine, hence: noble (horse etc., race)'; also (redupl.) †⟨Surbub 'abundant water, such as is clear, or limpid'; †⟨Sarraba, [H,W:] also †⟨Pa⟨Sraba, 'to prune (a palm-tree); to make an incision in the bottom of the horse / to scarify (a horse) (to make clear that it is a good horse); [F] puram et a vitiis immunem protulit (loquelam) [= overlapping with ¹⟨SRB in Pi⟨Srāb⟩]; to reproach, upbraid s.o. [i.e., point out clearly the faults in s.o.'s behaviour]'; †⟨Pa⟨Sraba [F] 'distinctam, manifestam effecit (rem)'. [F] †⟨Surb 'noble horse', †⟨Sarab 'nobilitas generis (in equis)', †⟨Sarāb 'boum species glabra'; [overlapping with ¹⟨SRB 'Arabic':] (hayl) †⟨Sirāb 'Arabici nobilesque equi', †⟨Saruba 'Arabica et vitiis immunis fuit (loquela), †⟨Sarab) ⟨Saribat / -āt / ⟨Sāribat 'F] (Arabum) gens pura / [L] the pure, or genuine Arabs'. Cf. also next item?
- ¹⁹ςRB [†]ςarabī 'white/excellent (barley)'
- ²⁰SRB †Sirb, a species of barley-grass, 'dried buhmà plant' [F,L]
- ²¹ SRB Dat Ar Surb ~ Surub 'ordre, arrangement, convenance, résultat' [LZ]
- ²² SRB EgAr Sarbat, pl. Surab, 'quarter tone; device for adjusting the tone of the strings of the qānūn (mus.)' [BH]
- ²³ SRB [†] Sarāb, [W] Sarābat 'fruit of the hazam tree'
- ²⁴ ΓRB † $\Gamma ar\bar{a}ba\ddot{t}$, pl. - $\bar{a}t$, 'bag with which the udder of a sheep, or goat, is covered' [F,L]
- ²⁵ςRB [†]ςurūbā?^u '(a name of) The Seventh Heaven' [F,L]

²⁶ςRB DatAr tasārīb 'tetragonal stones' [LZ]

²⁷ \(\sigma R B \\ \frac{1}{2} \) arib, \(\sigma arib \) 'somebody' \([F, BK] \)

What can we make out of this evidence? It seems difficult, if not impossible, to find a common denominator in all these values, even if we leave unconsidered those items that seem to be of foreign origin or due to metathesis, such as ${}^5 \mathbb{R} \mathbb{R} \mathbb{G} \$

- (A) 'to **enter**': According to many (Huehnergard, Kogan, Klein, et al.), this is the very basic value of the root in Sem [Akk *erēbu* 'to enter, enter in the presence (of a god, king, etc.), come in (said of taxes), come (said of months), invade, penetrate; to return, arrive, come, go home', (Š-stem) *šūrubu* 'to penetrate', Ug Phoen *βrb* 'to enter, go in']. This value seems to be manifest however in Akk, Ug and Phoen *only*, while it has undergone a shift, or several shifts, of meaning in the remaining Sem area where it is mostly realized as one of five new semantic bases, presented below. Retsö, meanwhile, seems to regard Ar [†] γαβraba 'to penetrate, copulate, have sex' (¹² βRB *"enter" a woman') and perhaps also the n.gent. βarab itself (¹ βRB) as possible reflexes of the original 'to enter', suggesting for the latter an original meaning of *'those who have entered [, sc.] into the service of a divinity and remain his slaves or his property', ⁸¹ cf. also next but one paragraph.
- (B) 'to set, **go down** (sun), **evening**, **west**': This value is usually explained as an extension of (A), based on the idea of the sun "entering", i.e., setting, behind/below the horizon. The value can be observed already in Akk *erêb šamši*, Ug \$\(\text{Srb \section} \section \section \) 'sunset' and is very frequent throughout Sem, including Ar (here, however, with *\(\text{SRB} > \hat{GRB}, \text{ e.g., } \hat{garuba}, \hat{garuba} \text{ from the set', } \hat{garb} \text{ 'place of sunset, west'}.\) *\(\text{SP} \) Rotter suggested that also Ar \(\frac{1}{3} \text{GrB} \) (\(\text{11} \Grack{GRB} \), a pre-Islamic name for 'Friday', should be put here, originally indicating the *'day of Venus' (Lat *dies Veneris*), i.e., the day of the ancient deity of the evening star.\(\text{83} \)

⁷⁷ For details and references cf. the entry in EtymArab, with further references.

⁷⁸ As note 77.

⁷⁹ First sketched in the entries I prepared for the EtymArab online dictionary; for more details cf. there.

⁸⁰ The "homeless" ones include the wadi \P Arabaï (\P RB), the 'white/excellent' barley (\P RB \P Rarabī) and a species of barley-grass called buhmà (\P RB \P Rirb), the fruit from a certain tree (\P RB \P Rarāb, $\neg a\ddot{t}$), the 'bag with which the udder of a sheep, or goat, is covered' (\P RB \P Rarābaï), 'somebody' (\P RB \P Rarāb, ⁸¹ Retsö 2003: 598.

⁸² A shift regarded by NÖLDEKE 1900: 155, n.1, as a "Steigerung", likely to be induced by neighbouring -R-.

⁸³ ROTTER 1993: 123, n. 56.

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- (C) 'pledge, to step in, stand surety or bail for, give guarantee\earnest money': In ascribing the meaning *'to enter, stand surety or bail for, guarantee' to Sem \sqrt{RB} , Huehnergard obviously regards the idea of 'stepping in for s.o.' as integral aspect of the Sem root, going together with (A) *'to enter'. 84 According to Klein, this is doubted by others (cf., e.g., the fact that BDB groups this value apart from 'to enter'). 85 BDB mentions that the value usually is connected with (D) 'to mix', although this is "quite uncertain". 86 There is consensus nevertheless that the value 'to step in for s.o., etc.' is a major basis around which a larger semantic field has built up in CSem (Ug, Can, Aram, Ar, SAr), cf., e.g., Ug \$rb, Hbr \$\textit{Garab}\$ 'to take on pledge, give in pledge, go surety for; to barter, exchange', Syr \(\gamma^a rab \) 'to vouch for, go surety for', Syr \(\gamma reb \) 'to promise solemnly, be surety, pledge o.s.; (with b-, l-, Sal-) esp. to stand sponsor (at baptism)', $\operatorname{Sur\bar{a}b}(t)\bar{a}$ 'surety sponsor, god-parent' (> Ar ${}^3\mathbf{fRB}$ $\operatorname{Sarr\bar{a}b}$ 'godfather'), Ar $\operatorname{Sarraba}$ 'to give earnest money' (3fRB); Hbr Sērābôn 'pledge', JudAram, ChrPal Sarbûnā (> Ar *Garabūn* 'pledge, token', usually treated as from 4-rad. √*GRBN*). Retsö even tends to see the n.gent. *Sarab* (1*GRB*) itself as belonging here (as an extension from 'to enter') when he suggests an interpretation of the name farab as *'those who have entered into the service of a divinity and remain his slaves or his property'. 87
- (D) 'mixture > confusion': With the exception, perhaps, of \$^{15}\$CRB \$^{\dagger}\$Carib\$ 'bad, corrupt, disordered (stomach)', there seem to be no other direct reflexes of this basic value in Ar. It figures on the list here nevertheless, for two reasons: first, because there is an old theory that would see the n.gent. \$Carab\$ (\$^{1}\$CRB\$) as originally meaning *'the mixed people' (or even *'riffraff'), a term applied by the Israelites to all types of foreigners and non-natives; and second, because it could serve as a semantic link between (A) *'to enter' and (E) *'vehemence' (see below), or (if *'to enter' has to be separated from 'mixture') as the origin from which *'vehemence' could have developed as an Ar innovation. The idea of *'mixture > confusion' seems to be realized mainly in Hbr \$Carab\$, \$
- (E) 'vehemence (passion, vitality, agility, outburst, expression, excess, abundance, abundance of passion, exuberance, affection)': This value is one of the broadest bases for new derivations in Ar, but apparently only there, i.e., it seems to be an Ar innovation. It can be thought to be a development from (D) when the 'mixture, confusion' was

⁸⁴ HUEHNERGARD 2011, s.r. 'RB.

⁸⁵ KLEIN1987: s.r. §RB.

⁸⁶ BDB: s.r. *SRB*.

⁸⁷ RETSÖ, The Arabs, 598.

⁸⁸ MILITAREV & KOGAN, SED II, #36 reconstruct Sem *fa/urub- 'kind of vermin, worm'.

⁸⁹ KLEIN1987 considers also Hbr Aram $\sqrt{\varsigma}RBL$, Ar $\sqrt{G}RBL$ as belonging here (as extension in *-L): Hbr $\varsigma irb\bar{e}l$ 'to mix; to cause to whirl; to confuse', Syr $\varsigma arbel$, Ar $\dot{g}arbala$ 'to sift'.

thought to exceed a certain limit or an emotional quality was attached to it; in many derivations from this basis there is also an element of the ungovernable, unmanageable, or of an uncontrollable eruption. The most frequent items belonging to this complex are probably: 'abundance (of water)' (⁷GRB), esp. that in a *Sarabat*' 'swift river' (4**GRB**) (of which 8**GRB** †*Sarabat* 'soul, mind' is likely to be figurative use); it is also tempting to draw a line from this swiftness and agility to that of a 'Surbānat' (kind of) lizard' (⁹*fRB*) and the turbulences in a [†]*farib* 'corrupt, disordered' stomach (¹⁵*fRB*, but cf. D, above) and the †Sarab 'swelling' caused by it (16GRB); DatAr Surbiyyai 'inguinal region; lymphoma' (17*GRB*) certainly also belongs here; the idea of excess is evident in the verb † Saraba 'to eat (much), devour' (14 SRB), and that of passion and affection in the adj. † Sarūb 'loving, pleasing' (10 SRB) that the Qur? an uses as an epithet to describe the virgins of Paradise; if the pre-Islamic name for 'Friday', † Sarūbai (115RB), originally really means 'Venus' (cf. B, above), then one could also interpret this name as *'the Affectionate, Loving' one (rather than *'Deity of the Evening Star', from *'to set, go down < to enter'); to ${}^{\dagger} Sar\bar{u}b$ 'loving, pleasing' one could also put ${}^{\dagger} Sarraba$ 'to arouse (a partner's) sexual appetite' and † 2aSraba 'to penetrate, copulate, have sex' (12 GRB), keeping in mind, however, that Retsö interpreted the latter as a reflex of (A) *'to enter'; the same verbs *Sarraba* and *PaSraba* can, however, also remain free of all sexual implication and instead refer to an eruption, an outburst, a letting out of feelings, emotions, thoughts, etc., i.e. an 'expression' (2 (RB), an outward showing of emotions or feelings or uttering of thoughts; if this 'expression' is not properly controlled, we get '\(^t\nabla Vr\bar{a}bat'\) 'foul speech, obscene talk' (¹³**GRB**).

(F) The sixth large semantic cluster within Ar \sqrt{sRB} is that of 'clarity, purity' and hence also 'nobility' (18GRB). Since this value, too, seems to be an Ar idiosyncrasy, it is perhaps not too far-fetched to try to derive it from the preceding complex, in itself probably an Ar innovation, along the hypothetical line *'vehemence > abundance > abundance of water > abundance of clear water > clear water > clear > pure > noble'. Indeed, the idea of 'abundance' mostly occurs in connection with water, and items like those indicating an 'abundance (of water)' ('SRB) or a 'swift river' ('SRB), mentioned in the preceding paragraph, are often characterized in the dictionaries simultaneously with the attribute 'clear, pure' and can thus easily serve as bridge between 'abundance' and 'clarity, purity', e.g., † Sarab, † Sarib, † Surbub '[F] Multa aqua pura / [BK] grande quantité d'eau pure / [L] abundant water, such as is clear, or limpid' (my italics, S.G.). (The figurative use of *Sarabat* 'swift river' as ⁸*fRB* † 'soul, mind' also fits into this picture: a swift mind is often also a clear mind.) The basic idea of *'clarity, purity' is then transferred into quite a number of very different contexts, so that verbs like 'sarraba or ?asraba, lit. meaning 'to make clear, limpid, clean', can come to mean such diverse actions as 'to prune (a palm-tree)', 'to make an incision in the bottom of the horse, to scarify (a horse) [to make *clear* that it is a good one]', 'to express clearly' (overlapping with 'to express' understood as a simple "outing" of emotions etc., see E 'vehemence')', 'to speak correctly, without mistakes', 'to reproach, upbraid s.o. [i.e., point out clearly the faults in s.o.'s behaviour]', etc. From 'purity' the step is not far to 'nobility', particularly that of horses (\$\frac{1}{3}\text{urb}\$ 'noble horse', \$\frac{1}{3}\text{arab}\$ 'purity of race'), but often overlapping with ethnic purity, esp. that of the Arabs (¹GRB) themselves. – With all probability also † $Carab\bar{\iota}$ 'white/excellent' barley (19 CRB) is just a specific application of 'purity' on this type of corn.

This is, roughly, where an etymologist with a traditional triradicalist approach will get. ⁹⁰ In how far do the findings of biradicalists like Ehret, Bohas and Gabal alter or corroborate this picture?

In his seminal study on "The Origin of Third Consonants in Semitic" (1989), Ehret reconstructs a "pre-Protosemitic" root *GR 'to take out, remove' from which he assumes the following Ar verbs (cited with their verbal noun) to be derived by reduplication or extension in third consonant modifiers:

```
SarSar
         'to uncork, pull out an eye'
Sarab
         'to separate, put by, put aside'
Sart
         'to remove, lift up, lay aside'
Sard
         'to throw or fling far'
Sarad
         'to flee, take to flight'
Sardas
         'to throw to the ground'
Sarz
         'to tear out violently'
Sard
         'to offer, present, show itself, happen, occur, come to meet, show, bring to
         mind, give or take in exchange'
Sarq
         'to depart, set out'
         'to come up to, approach, visit, occur, happen'91
Sarw
```

The value 'to separate, put by, put aside' of $\sqrt{R}B$ does not figure as such in our own list above. But it seems to be identical with the 'pruning' of a palm-tree ($^{\dagger}Sarraba$,, an operation in which the leaves are separated and put aside in order to clean the plant. In our own sketch of the semantic field we had assumed this pruning to be a special use of 'cleaning' and therefore suggested to make it dependent on (F) 'clarity, limpidness, purity' (^{18}SRB). Ehret's reconstruction would now suggest to see it the other way round and derive the latter from the former. In addition, his findings would invite us to see subfield (F) of $\sqrt{S}RB$ together with the other "derivations" from pre-PSem * $S}R$ —which, however, does not help in any way when it comes to disentangle the remaining areas of the complex field.

In his—not less seminal—book *Reconstructing Proto-Afroasiatic* (1995), Ehret comes with yet another reconstruction: From pre-PSem *\$\mathcal{G}R\$ 'to be raised' (< AfrAs *-\$\mathcal{G}ir-\$ 'to be raised; sky'), he derives the Ar verbs

```
Sarb 'to swell and suppurate'
Sarğ 'to ascend, mount, rise'
Sard 'to shoot up, grow'
Sarš 'to build, erect a trellis'.92
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⁹⁰ For more details cf. the SRB entries in EtymArab.

⁹¹ EHRET, "The Origin", 175-6 (item #33).

⁹² EHRET, *Reconstructing*, 353 and 510 (item #695). – I am not considering here two other pre-PSem *GR roots, (#696) 'to burn (intr.), shine' and (#697) 'hard, firm, strong' because they do not show any semantic overlapping with Ar \sqrt{GRB} .

The first item is $^{16}\Omega B$ in our above list. While we tended to regard the camel's 'swollen and purulent' hump as dependent on either (D) 'mixture > confusion' or (E) 'vehemence' (incl. excess, abundance, outburst, etc.), Ehret assumes the idea of 'being raised' as the underlying general notion. Worth further consideration, I think (all the more so since we will find something similar also in Gabal's study, see below). Unfortunately though, this step, too, does not bring much more light into the remaining areas of the etymological labyrinth of Ar $\sqrt{\Omega}B$. One possible consequence would probably be to separate items that can be thought to derive from *'swelling' from the rest and consider the possibility of *two* (or more) distinct etymologies of the different ΩB complexes.

Unlike Ehret's and Gabal's root nuclei, Bohas' etymons are, as we saw, non-linear. This means that in order to find a biconsonantal basis from which Ar *SRB* may be derived, we have to investigate three cases:

$$\epsilon \{ \S, r \} + /b/
\epsilon \{ \S, b \} + /r/
\epsilon \{ b, r \} = \{ r, b \} + / \S/$$

And also a forth possibility has to be taken into account, namely an "etymon merger":

$$\in \{ \varsigma, r \} + \in \{ r, b \}$$

The data that are to be found in Bohas' *Matrices*, étymons, racines (1997) and seem to be of possible relevance in our case are:

- ϵ {b,r} /br/ 'good work, good deed, beneficence, liberality, charity; piety; just, truthful, faithful (one of the names of God)' (barr, bārra, tabarrara, birr, bārr)
 - /rb/ 'benevolent, beneficent; master, lord (also: the Lord, God)' (rabb, murtabb)
- $\in \{b, S\}$ /bS/ 'noise/sound produced by water when poured from a bottle' (baSbaS)
 - 'to make long strides (said of animals)' (bāsa /bawasa/)
 - /\(\superstack{\gamma}\) 'to gurgle (bucket when being filled with water)' (\(\superstack{\gamma}\) abba)
 - 'wide and made with all one's forces (jump, race)' (wasīb)
- ϵ {r, ϵ } /r ϵ / 'to be rippled, slightly agitated (said of clear water on the surface of the ground when the wind strokes over it)' ($ra\epsilon ra\epsilon a$), 'to become loose, and wabbled, or moved about (tooth)' ($tara\epsilon ra\epsilon a$)
 - 'tall, handsome (young man)' (rasrās)
 - 'to guard, take care of' (rāsā /rāsaya/)
 - 'crowd, gathering' (rīsat)
 - 'to compel s.o. to abstain from s.th., prevent s.o. from doing what is unlawful' (warrasa)
 - /\forall r/ 'to remove (the stopper of a bottle to uncork it)' (\forall ar\forall ara)
 - 'movement, agitation' (*SarSarat*), 'to be agitated, and, so to speak, bubbling (said, e.g., from the heart when agitated by violent emotion)' (*waSira*)
 - 'young man' (*Surr*)
 - 'to charge s.o. with a load, give s.o. the care of s.o.' (*Sarrara*)
 - 'large group of men' (*Surwat*)

- 'to interrupt, withhold, prevent s.o. from getting access to s.th.' (wasara, wassara) 93

Of all these values, only very few seem to have any relation to any of the many *SRB* items of our own list:

- ϵ {b,r} Both realisations of this etymon, /br/ and /rb/, seem to have to do with beneficence and doing good works. If this could be connected to the idea of 'nobility' (which we derived from F *'purity'), then the second part of the corresponding $\sqrt{\varsigma}RB$ items could be seen together with rabb, etc.
- ϵ {b, Γ } The only possible overlapping I can see here is between Γ abba Γ to gurgle (bucket when being filled with water) and items such as Γ swift river or Γ (all in subfields D *'mixture > confusion' or E *'vehemence').
- ϵ {r,S} /rS/ raSraSa 'to be rippled, slightly agitated (water)': related to (E) 'vehemence, agitation'?
 - /Sr/ SarSarat 'movement, agitation', waSira 'to be agitated, violent emotion':
- ϵ {S,r} + ϵ {r,b} : A fusion of the two etymons could yield something like 'agitation + gurgling' or 'agitation + beneficence'. The first could be imagined as a mutual reinforcement of the two activities; the latter could bring us, with some phantasy and twisting, to 1 ϵRB the Arabs as *'the agitated beneficent ones'.

I leave it to the reader's discrection to judge how meaningsful such speculations are and whether or not they advance our understanding of the etymology of Ar (and Sem) \sqrt{SRB} .

Gabal, like Ehret, sees $\sqrt{R}B$ as composed of a nucleus R- and a modifying B. Unlike Ehret, however, the Egyptian author does not reckon with the possibility of a multitude of R- bases; Gabal always looks for *the* one and only common denominator in all. What he identifies as the very basic value of a root or a nucleus is therefore always extracted from all the relevant elements that are found in the language. Thus, the basic value of R is filtered out from all existing R items, and the basic value of the nucleus R is the common denominator of all existing combinations of the R+... type, including also reduplication and R, R and R in free position.

Gabal's *GRB* chapter⁹⁵ therefore starts with a presentation of the (in his view) most typical items (all to be found in our own survey, cf. numbering in parentheses):

```
qurʔān ʕarabī 'the Arabic [i.e., clear] Quran' (as in Q 41:3) (cf. subgroup F *'clarity, purity)

nahr ʕarib 'flood' (cf. our <sup>4/7</sup>ʕRB)

biʔr ʕaribat 'well abundant in water' (cf. <sup>7</sup>ʕRB)

ʕarabat 'swift river' (cf. <sup>4</sup>ʕRB)
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⁹³ BOHAS, *Matrices*, 99 (#33), 101 (#41), and 121-2 (#197) – my translations from French, S.G. – Where I found a common denominator in Bohas' data, I tried to summarize.

⁹⁴ For an exemplification of the dimensions that can be reached with a BOHASian approach, cf. Jean-Claude ROLLAND's contribution in the present dossier, pp. 68, below.

⁹⁵ GABAL, Musgam, iii: 1471-74.

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Sarab'vitality, agility, liveliness' (cf. our subgroup E)Sariba a (Sarābai)'be swift, lively, agitated' (cf. subgroup E)

Saribat miSdatuh 'his stomach was disturbed due to what was loaded on it' (cf.

¹⁵ SRB)

Sariba 'l-ğurḥ wa-ḥabiṭa 'there remained some traces of the wound after healing,

a degeneration' (cf. 16 ςRB)

Sariba 'l-sanām 'the hump (of a camel) became swollen and purulent' (cf.

 16 $\mathcal{L}(RB)$.

He then presents his conclusion as to what constitutes the basic value of $\sqrt{R}B$ as extracted from the existing vocabulary, namely: $na\check{s}\bar{a}t$ wa-' $ntil\bar{a}q$ bi-hiddat $d\bar{a}tiyyat$ lil- $hul\bar{u}s$ $mimm\bar{a}$ yuhbas, i.e. (roughly) 'vehement activity\agitation inside aiming at releasing\letting out what is locked up'. It is clear that this is our semantic subgroup (E) *'vehemence' and that Gabal obviously derives all values that he considers authentic RB values from this one notion. Given that our own approach, for the most part of the Ar RB items, remained within the subfields (D) *'mixture > confusion', (E) *'vehemence', and (F) *'clarity, purity' and that these often seem to overlap, Gabal's suggestion looks absolutely worth reconsidering our own findings in the light of his $na\check{s}\bar{a}t$ wa-' $ntil\bar{a}q$... Our subfields (A)–(C) (*'to enter', *'to go down, set', *'pledge, to step in') are mainly motivated by the non-Ar evidence and did not yield incontrovertible results.

Gabal's first paragraphs are followed by an amplifying discussion in which the author explains in how far also other ΩB values than those mentioned in the beginning can be regarded as derived from the one $ma\Omega na$ $mihwar\overline{n}$. In many points this discussion confirms our own findings, e.g., the hypothesis that $^2\Omega B$ 'expression, outburst' should be connected to *'vehemence', or that also the notion of (F) *'purity' ($^{7/18}\Omega B$) may be dependent on this *'vehemence' (Gabal: being free from contamination, al-hulus min al-sawa2ib, is also a hiddai because it means strength\power, quwwai, this is why pedigree horses or camels are called Ωrab .

In some other points Gabal suggests explanations for items that our own survey had left unconsidered, such as † Girb 'dry buhmà plant' (20 GRB), † Garāb(at)' 'fruit of the hazam tree' (23 GRB), and also the $w\bar{a}d\bar{\iota}$ (al-) GArabat' (6 GRB), the latter being interpreted as just taken from Garabat' 'swift (i.e., "vehement") river (with abundant water)' (7 GRB). Interesting is also Gabal's explanation of the n.gent. Garab (1 GRB):

the Arabs are called like this due to their *hiddat datiyyat* (\approx innate passionateness, hot temperament), which shows in their vitality ($na\check{s}at$) and their unrestrained mobility (harakat mutasayyibat) when they wander in\roam the open\unprotected desert in search of pasture; it also shows in the emotionality (fatifiyyat), affectivity\unprotection impulsiveness (infifaliyyat) and the hot-bloodedness (harat al-damm) that are widespread among them; finally, [it also shows] in their ability to express their in-

^{96 &}lt;sup>1</sup>GRB 'Arab' and ¹²GRB 'to copulate' are only *perhaps* from A 'to enter', and ¹¹GRB '(pre-Isl.) Friday' only *perhaps* from B 'to go down, set'. ³GRB 'to give earnest money; godfather' is certainly from C 'pledge, to step in', it is right; but given that Gabal does not treat the respective items as authentic *Arabic*—with good reason, since they are borrowed from Aram or based on loanwords from this language—, the overwhelming majority of Ar GRB items are indeed concentrated in the D, E and F groups.

nermost feelings with minute precision, i.e., [a precision that is to be found in] the correct or, as was said: pure, expression (?iŚrāb, ?ifsāh).

Given that none of the many explanations that have been suggested so far for the ethnonym is beyond doubt, ⁹⁷ Gabal's idea should at least be retained among those that seem to be further investigation.

The $tark\bar{t}b$ ℓRB is treated within the chapter on ℓR + modifiers. Here, the root $\sqrt{\ell}RB$ features alongside with the geminated $\sqrt{\ell}R.\ell/\ell RR$, the reduplicated $\sqrt{\ell}R\ell RR$, the weak $\sqrt{\ell}R\ell RR$, $\sqrt{\ell}R\ell RR$, and $\sqrt{\ell}R\ell RR$, as well as the roots with sound third consonants, i.e., $\sqrt{\ell}R\ell RR$, $\sqrt{\ell}R\ell RRR$, and $\sqrt{\ell}R\ell RRR$. The basic value extracted from the values of all these individual roots is said to be naqs ℓRRR ℓ

a lack or removal from the outside of s.th., an act that makes apparent/lets surface what was hidden, is expressed in 'scab, mange' (al- \Im ar al- \Im arab, \Im RR), and also in the 'openings of the handles on a jug or the button-holes at the borders of a shirt' $(\sqrt{R}W)$, as well as in the 'being stripped/divested' (tağarrud) expressed in $\sqrt{R}Y$, and so also in the 'opening in [the place of the missing eye in] a one-eyed person' or a 'cleft in the mountains' (\sqrt{fWR}), and likewise in the 'prominence of the middle rib in a leaf or the instep on top of a foot' (\sqrt{SYR}); [the same notion is contained] also in the sharp eruption of s.th. that was locked up and is now released, or in the 'well that has stored up abundant water and now wells out', accompanied by a vehement outburst (\sqrt{RB}), as also 'lameness\limping', i.e. a defect whose impact becomes apparent in walking (\sqrt{R}); the *Surš* of a foot are the strong veins\ribs protruding on it, or on a leaf (\sqrt{RRS}); Sard 'breadth' is the wide side on which everything is openly visible (\sqrt{RP}); the *Surf* (crest) of a cock or (mane) of a horse is what juts out from their bodies (\sqrt{RRF}); and so also \sqrt{RRM} [means] something accumulating and piling up outside\on the surface, where it then peels off, as for example dirt [on a cooking pot] or the bark [on a tree].

⁹⁷ In *The Arabs in Antiquity*, RETSÖ tends to derive *Carab* from Sem √CRB *'to enter' (A) which Huehnergard, as we saw, regards as forming a unit together with *'to step in for s.o., pledge' (C). Earlier theories would connect *Carab* with the *CArabaï* (*CRB) (the Arabs as *'those who live in the Araba region'), or with the notion of *'mixing' (D) (the Arabs as *'mixed company' or, more negatively, a 'swarm'), or with its opposite, the *'purity and nobility' (F) of descent, or with *'vehemence, excess' (E) (the Arabs as 'people who eat\devour a lot' [\frac{14}{CRB}] or 'have much sex' [\frac{12}{CRB}]), or (by metathesis) with the 'Hebrews' (\sqrt{SBR}), by which the Arabs like the Hebrews are essentially seen as *'the nomads, those who traverse, cross, wander around' or *'those who come from, or inhabit, the other side of the river, the region beyond'. – For further details cf. entry *Carab* in *EtymArab*.

نقص أو جَرْد من ظاهر الشيء يلزمه ظهور ما كان خافيا ، كما يتمثّل في العَرّ الجرب ـ في (عرر) ، وكما في عورتيَّ الكوز 99 والقميص المفرغتي الوسط واقعتين في ظاهر الكوز وحافة القميص ـ في (عرو)، وكما في التجرد ـ في (عري)، وكما في فراغ العين العوراء والشق في الجبل ـ في (عور)، وكما في اختراق العَيْر الورقة والقدم ظاهراً في أعلاهما ـ في (عير)، وكالانطلاق بحدّة

At the same time, all these values are also explained in mimophonic terms. To conclude this presention with an example also of this feature of Gabal's approach, here is the explanation he gives for \sqrt{SRB} *'sharp eruption of s.th. that was locked up and is now released':

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In $\sqrt{\varsigma}RB$ the -B expresses a soft cohesion or accumulation and the $tark\bar{\imath}b$ [as such] an internal vehemence\impetuosity, i.e., one that is stable\contained inside of something, [but] whose effect becomes apparent\juts out, despite a gentle build-up\accumulation, i.e., non-discernibility of its traces, as in $\varsigma arab$ 'agility\vitality', where [the internal impetuosity] is not apparent\uncovered, and in the $bi r \varsigma aribai$, the well that contains plenty of water. 100

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BDB = Francis Brown, with the cooperation of S.R. Driver & Charles A. Briggs: *The Brown-Driver-Briggs Hebrew and English Lexicon. With an appendix containing the Biblical Aramaic.* 13th printing, Peabody, Mass.: Hendrickson Publ., 2010. (Reprinted from the 1906 edition originally published bz Houghton, Mifflin and Co., Boston.)

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مع الخلوص مما يحبس ، وفي البئر العربة كثرة مائها من كثرة ما تخترنه . مع قوة اندفاعه في (عرب)، وكما في الظلع وهو نقص يظهر أثره في المشي في (عرج)، و(عُرش) القدم عروق قوية بارزة من القدم والورقة ، و(العَرض) جانب واسع ظاهر كالمكشوف . في (عرض)، وعُرف الديك والفَرَس نافذ من البدن إلى ظاهره . في (عرف)، والمجتمع متراكماً على الظاهر . في (عرف)، وهو يعرو الظاهر منقشراً من غيره وشأنه أن ينقشر كالوسخ والقلفة

وفي (عرب) تعبر الباء عن التلاصق أو التحمع الرخو ، ويعبر التركيب عن حدة ذاتية أي ثابتة في أثناء الشيء يبرز أثرها – 100 مع تجمع لطيف أي عدم مفارقة سفرية كالعرب النشاط فهو ليس سفراً وكالبئر العربة الكثيرة الماء

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