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Grammaticalization of the Particle Qad in Arabic

Mansour Altamimi^{1*} , Jacob Willson² 

¹ Department of English and Translation, College of Languages and Translation, Imam Mohammad Ibn Saud Islamic University, Riyadh 11432, Saudi Arabia

² Department of English, Linguistics and Applied Linguistics Program, University of Arizona, Tucson, AZ 85721, USA

ABSTRACT

In this paper, we explore the grammaticalization of the modal-aspectual particle *qad* in Classical Arabic and *qid* in Saudi Najdi Arabic. This particle has two functions: before a perfect verb, it serves as emphasis (i.e., *surely, indeed, verily*), and before an imperfect verb, it indicates possibility (i.e., *may, might, could*). We first classify the environments in which this particle is found — i.e., before perfect or imperfect verbs, before or after the auxiliary *kāna*, before negatives, etc. — and demonstrate that *qad* is not an affix, whereas *qid* is. We then consult other Semitic languages for plausible analogies to the origins and development of *qad*. After that, we synthesize the data and analysis into an account of the grammaticalization of the particle *qad*, namely from plausible origins as an adjunct, then the specifier with interpretable features, then first verb in a Serial Verb Construction (SVC), to a head with uninterpretable features, to an affix with fewer uninterpretable features. Finally, we explore the plausible early stages of *qad*: as specifier with interpretable features (Biblical Aramaic example), then as a SVC (Syriac example), and then demonstrate that *qad* cannot precede tensed negatives because *qad* is base-generated as the head of AspP, thereby blocking the negative from acquiring tense from T.

Keywords: Serial Verb Construction; Modality; Reanalysis; Feature Economy; Semitic Linguistics

*CORRESPONDING AUTHOR:

Mansour Altamimi, Department of English and Translation, College of Languages and Translation, Imam Mohammad Ibn Saud Islamic University, Riyadh 11432, Saudi Arabia; Email: mihussain@imamu.edu.sa

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1. Introduction

In this paper, we examine the *modal-aspectual* marker *qad* in Classical Arabic (CA), its cognate in Saudi Najdi Arabic *qid*, and other (what we propose to be) related markers, namely *qam* in Northeastern Neo-Aramaic (NENA), *qadama* in Ge'ez, *qaddem* in Syriac, and *qōdām* in Biblical Aramaic. We are interested in this particular marker (over others such as *sawfa*, *rāh*, *gālis*, etc., to be discussed briefly in Section 3) for two main reasons: first, the particle itself seems to be understudied, especially in the generative tradition; and second, its dual semantic function (either as a marker for emphasis or possibility) presents a compelling syntactic challenge, that is, how can the *modal-aspectual* features of the verb relate to the function of the preverbal particle? To synthesize the data from the aforementioned languages, we employ a methodology referred to as *dynamization of synchrony*^[1]. In their volume on Serial Verb Constructions (SVCs), Andrason and Aikhenvald^[2] describe this methodology as follows:

“a synchronic state ... in a specific language at a specific point in time or a collection of such synchronic states exhibited in several languages, are interpreted diachronically and arranged into a sequence. This sequence, in turn, reveals and/or reflects an evolutionary path that these constructions have followed”^[2]

Applying this to our examination of the *modal-aspectual* marker *qad* and its cognates means observing segments from closely related languages and arranging those segments into a diachronic story. In other words, these cognates are separated by a significant amount of space or time, undergoing distinct but related processes of change.

With that in mind, the purpose of this paper is to determine the stages of *qad*'s development from lexical to functional material, and which linguistic features of *qad* and its progenitors were lost and gained in its history.

The authors chose CA, as opposed to Modern Standard Arabic (MSA), because we presumed either that there would be no significant difference in function or distribution, or that any differences would be considered innovations outside the scope of the paper. We chose Saudi Najdi Arabic (SNA) because it is the native dialect of one of the

authors. In fact, where not otherwise cited, examples in Arabic are sourced from the judgments of one of the authors. We did not exactly ‘choose’ the other languages; rather, we encountered them in the course of our examination.

In the course of this paper, we will make use of some potentially confusing terminology, i.e., (im)perfect vs. (im)perfective. The former is a purely morphological category describing whether verbal inflection occurs before or after its host. In other words, the *perfect* verb is any verb that takes suffix conjugations (e.g., Arabic *qatala* ‘he killed’), and an *imperfect* verb is any verb which takes prefix conjugations (e.g., Arabic *yaqtulu* ‘he kills’). As for (im)perfective, this is a purely aspectual category describing the completeness of a particular event. This distinction can also be seen in the examples where *perfect* and *imperfect* verbs are marked *perf* and *impf* because those verbs take suffix and prefix inflection, respectively, not because they are *perfective* or *imperfective*. That being said, in practice, these categories overlap; a morphologically perfect verb is likely (but not guaranteed) to have a perfective interpretation. The distinction between morphological tense and aspectual interpretation will be important throughout our analysis, especially as we examine how these forms behave in CA and SNA.

With these preliminaries established, we now turn to the structure of the paper. Section 2 presents *qad* in CA and *qid* in SNA, with examples showing their restrictions and affixation patterns. We also argue that *qad* is best analyzed as a particle rather than an adverbial. Section 3 explores the wider Semitic context for these forms. In Section 4, we briefly outline the relevant Minimalist assumptions, synthesize the data into a grammaticalization account, and examine how *qad* interacts with SVCs and negation. Section 5 concludes the paper.

2. The Particle QAD in Context

For clarity, we refer to the Classical Arabic form as CA *qad* and the Saudi Najdi form as SNA *qid* throughout the paper. Collectively, we refer to these as the QAD-class particles. When we use the general term “the particle,” we do so only when referring to shared properties across both forms.

2.1. QAD Preceding PERF and IMPF

In CA, *qad* is uninflected and precedes both perfect and imperfect verbs, as seen below. Preceding perfect verbs, *qad* contributes emphasis (i.e., by making an epis-temic commitment to the truth of the event) as in (1); and preceding imperfect verbs, it serves to indicate possibility

as in (3). *Because of this, qad is a modal-aspectual particle.* According to Salamah ^[3], combining *qad* with non-past verb forms, particularly the imperfect, usually suggests modality in terms of possibility or probability, suggesting that *qad* is a modal/particle verb (i.e., *may, might*). The minimal pairs in (1) through (8) represent the contribution that *qad* and *qid* make to the expression.

- | | | | |
|-----|--|------------------------------------|--|
| (1) | <i>qad</i>
QAD
'he indeed has died' | <i>māta</i>
died.PERF | CA
[4] |
| (2) | <i>māta</i>
died.PERF
'he died' | | CA |
| (3) | <i>qad</i>
QAD
'She may write the assignment' | <i>ta-ktubu</i>
write.IMPF | <i>al-wağība</i>
the-assignment
CA |
| (4) | <i>ta-ktubu</i>
write.IMPF
'She writes the assignment' | <i>al-wağība</i>
the-assignment | CA |

In SNA, the particle is rendered *qid* and can only precede perfect verbs, as shown in (7). For the purposes of this paper, we refer to *qad* in CA with its rendering in SNA as forming a QAD-class.

- | | | | | |
|-----|---|-------------------|---------------------------------|---------------------------------|
| (5) | <i>l-bent</i>
the-girl
'The girl indeed had written / wrote the letter' | <i>qid</i>
QAD | <i>ktib-t</i>
wrote.PERF-3FS | <i>er-risalah</i>
the-letter |
| (6) | <i>l-bent</i>
the-girl
'The girl wrote the letter' | | <i>ktib-t</i>
wrote.PERF-3FS | <i>er-risalah</i>
the-letter |
| (7) | * <i>l-bent</i>
the-girl
'The girl indeed has written the letter' | <i>qid</i>
QAD | <i>ta-ktib</i>
3F-write.IMPF | <i>er-risalah</i>
the-letter |

In syntactic notation, the asterisk * placed before a sentence or example indicates that the structure is ungrammatical or unacceptable in the language under discussion.

- | | | | | |
|-----|---|--|---------------------------------|---------------------------------|
| (8) | <i>l-bent</i>
the-girl
'The girl writes the letter' | | <i>ta-ktib</i>
3F-write.IMPF | <i>er-risalah</i>
the-letter |
|-----|---|--|---------------------------------|---------------------------------|

2.2. QAD Kāna

There are several other patterns which *qad* exhibits of note here. In conjunction with *kāna* ‘was’, which can only be followed by the imperfect, *qad* can go before or after, i.e., *kāna qad fa‘ala* and *qad kāna yaf‘alu*. Similarly, SNA *qid* can precede *kān* as seen below, but because *kān* cannot precede a perfect verb, example (11) is ungrammat-

ical. Importantly, the alternation between *kāna qad fa‘ala* and *qad kāna yaf‘alu* demonstrates the different scopes that *qad* and *kāna* may take. That is, in (9), *qad* has scope over *kāna yuṣalli* which is already imperfective, while in (10) it is *kāna* that takes scope over *qad ṣallā*, which is perfective. Because in both examples *qad* precedes a perfect verb, it contributes emphasis, i.e. epistemic commitment to the truth of the event.

- | | | | | | |
|---|------------------------|------------------------|-----------------------------|-----------------------------------|-----|
| (9) | <i>qad</i>
QAD | <i>kāna</i>
be.PERF | <i>yuṣalli</i>
pray.IMPF | <i>fī al-bayt</i>
in the-house | CA |
| ‘He indeed had been praying in the house’ | | | | | |
| (10) | <i>kāna</i>
be.PERF | <i>qad</i>
QAD | <i>ṣallā</i>
pray.PERF | <i>fī al-bayt</i>
in the-house | CA |
| ‘He had indeed prayed in the house’ | | | | | |
| (11) | * <i>qid</i>
QAD | <i>kān</i>
be.PERF | <i>ṣallā</i>
pray.PERF | <i>fī al-bayt</i>
in the-house | SNA |
| ‘He had indeed prayed in the house’ | | | | | |

The asterisk (*) is a standard notation in syntax indicating that the sentence is ungrammatical.

- | | | | | | |
|---|-----------------------|-----------------------|---------------------------------|-----------------------------------|-----|
| (12) | <i>qid</i>
QAD | <i>kān</i>
be.PERF | <i>yuṣalli</i>
3MS-pray.IMPF | <i>fī al-bayt</i>
in the-house | SNA |
| ‘He indeed had been praying in the house’ | | | | | |
| (13) | <i>kān</i>
be.PERF | <i>qid</i>
QAD | <i>ṣallā</i>
pray.PERF | <i>fī al-bayt</i>
in the-house | SNA |
| ‘He had indeed prayed in the house’ | | | | | |

2.3. QAD and Affixes

In some cases in CA, certain prefixes can be added to the particle *qad*. The prefix *la-* is attached only to *qad* and not to the main verb, as in *la-qad* ^[4], to mark em-

phatic meaning (e.g., certainly, surely). Therefore, there are three levels of emphasis, zero emphasis as in (14); the first-degree emphasis as in (15); and second-degree emphasis, as in (16). Other prefixes include *fa-* (17) and *wa-* (18).

- | | | | |
|---------------------------------|-----------------------------|----------------------------------|----------------------------------|
| (14) | <i>gadara</i>
leave.PERF | <i>al-fārisu</i>
the-horseman | CA |
| ‘The horseman left.’ | | | |
| (15) | <i>qad</i>
QAD | <i>gadara</i>
leave.PERF | <i>al-fārisu</i>
the-horseman |
| ‘The horseman has indeed left.’ | | | |

- | | | | | |
|------|---|-----------------------------|----------------------------------|----|
| (16) | <i>la-qad</i>
Emph-QAD
'Surely, the horseman has left.' | <i>gadara</i>
leave.PERF | <i>al-fārisu</i>
the-horseman | CA |
|------|---|-----------------------------|----------------------------------|----|

In what follows, we analyze how CA *qad* behaves with respect to prefixation and suffixation, in contrast to SNA *qid*. Al-Aswad ^[5] states that *la-qad* carries two interpretations. Firstly, it serves as empha-

sis; secondly, it functions as a perfective aspect marker for the verb, indicating the recent completion of the action. Bahloul ^[4] views *la-qad* as an emphatic ad-

- | | | | | | | | | | |
|------|------------------|------------------------------|----------------------------|--------------------------------|-------------------------|------------------|-------------------------------|------------------------|----|
| (17) | <i>la</i>
NEG | <i>tantazir</i>
wait(for) | <i>al-waqt</i>
the-time | <i>al-munāsib</i>
the-right | <i>fa-qad</i>
so-QAD | <i>la</i>
NEG | <i>yaʔtī</i>
come.
IMPF | <i>abadan</i>
never | CA |
|------|------------------|------------------------------|----------------------------|--------------------------------|-------------------------|------------------|-------------------------------|------------------------|----|
- 'Don't wait for the right time, it may never come.'

- | | | | | | | |
|------|--------------------------|------------------------------|----------------------------------|---------------------------------|---------------------------------|----|
| (18) | <i>wa-qad</i>
and-QAD | <i>'adda</i>
perform.PERF | <i>eṭ-tullāb</i>
the-students | <i>al-ḥafla</i>
the-ceremony | <i>bi-nağāḥ</i>
with-success | CA |
|------|--------------------------|------------------------------|----------------------------------|---------------------------------|---------------------------------|----|
- 'The students have performed the ceremony successfully'

While in CA *qad* also appears with these prefixes (despite their operating at the clausal level), this option is not available in SNA. Interestingly, how-

ever, *qid* can take pronominal suffixes, allowing it to precede imperfect verbs, while *qad* cannot, as seen in (20).

- | | | | | |
|------|-------------------------|-------------------------------|------------------------------|-----|
| (19) | <i>qid-h</i>
QAD-3MS | <i>y-ākal</i>
3MS-eat.IMPF | <i>'ašā'-h</i>
dinner-3MS | SNA |
|------|-------------------------|-------------------------------|------------------------------|-----|
- 'He has already eaten his dinner.'
- | | | | | |
|------|---------------------------|---------------------------------|------------------------------|----|
| (20) | * <i>qad-h</i>
QAD-3MS | <i>y-ākal-u</i>
3MS-eat.IMPF | <i>'ašā'-h</i>
dinner-3MS | CA |
|------|---------------------------|---------------------------------|------------------------------|----|
- 'He has already eaten his dinner.'

The asterisk (*) is a standard notation in syntax indicating that the sentence is ungrammatical.

The pronominal suffixes that *qid* hosts show agreement with the subject of the sentence, not the object. Although *qid* cannot precede imperfective verbs in SNA, its ability to host pronominal suffixes suggests a reanalysis as a bound form with morphosyntactic interaction in the T-domain. This contrasts with CA *qad*, which remains a free particle. Future work may explore whether this affixal behavior points to a further stage of grammaticalization beyond what is attested in CA. Based on this, we argue that

qad allows prefixes to adjoin to it, but is not yet an affix itself, while *qid* can affix to agreement in T. Moreover, that *qad* is not yet an affix can be seen when there are elements that intervene between *qad* and the verb, as in *qad wallāhi 'aḥsanta* 'thou hast, by God, done well' or *qad la'amrī bit-tu sāhiran* 'I have, by my life, passed the night sleepless' ^[6]. Additionally, *qad* can be stranded, as in the following example, also from Lane, who makes no distinction between *qadī* and *qad* ^[6].

- | | | | | |
|------|-------------------|---------------------------|------------------------------|----|
| (21) | <i>qad</i>
QAD | <i>w-allāhi</i>
by-God | <i>'aḥsan-ta</i>
well-2MS | CA |
|------|-------------------|---------------------------|------------------------------|----|
- '[indeed] thou hast, by God, done well'
- | | | | | | |
|------|-------------------|---------------------|-------------------------------|------------------------------------|----|
| (22) | <i>qid</i>
QAD | <i>mona</i>
mona | <i>safarat</i>
travel.PERF | <i>li-r-riyād</i>
to-the-Riyadh | CA |
|------|-------------------|---------------------|-------------------------------|------------------------------------|----|
- 'Mona has indeed traveled to Riyadh'

- (23) *‘afida at-tarahḥulu ḡayra ‘anna rikābanā lammā tazul biriḥālīnā waka ‘an qadi* CA
 ‘The time of departure has drawn near, though the camels that we ride have not left with our
 utensils and apparatus for traveling, but it is as though they **had** (left).’

2.4. QAD and Negative Particles

As seen in the following examples, QAD is sensitive to negation. That is, while the untensed negative particle can co-occur with QAD, as in example (24), tensed negative particles cannot, as in examples (25) and (26). Further, the negative particles and QAD do not co-occur in SNA, as seen in example (27). Importantly, the tensed negative

particles *lam* and *lan* are marked PST and FUT, respectively, not PERF and IMPF, because these categories are related to the morphological form of verbs. In fact, *lam* and *lan* are *tensed* particles because they influence the tense of the following verb, not its aspect. In terms of tense, *lam* shifts the event into the past, while *lan* shifts the event into the future.

- | | | | | | | |
|------|-----|-----|-----------|--------------|------------------|----|
| (24) | qad | lā | yuḥibbu | al-’aṭfāl | ad-dīrasat-a | CA |
| | QAD | NEG | like.IMPF | the-children | the-studying-ACC | |

‘The children may not like studying.’

- | | | | | | | |
|------|-------|---------|-----------|--------------|------------------|----|
| (25) | * qad | lam | yuḥibbu | al-’aṭfāl | ad-dīrasat-a | CA |
| | QAD | NEG.PST | like.IMPF | the-children | the-studying-ACC | |
- ‘The children may not have liked studying.’

The asterisk (*) is a standard notation in syntax indicating that the sentence is ungrammatical.

- | | | | | | | |
|------|-------|---------|-----------|--------------|------------------|----|
| (26) | * qad | lan | yuḥibb-u | al-’aṭfāl | ad-dīrasat-a | CA |
| | QAD | NEG.FUT | like.IMPF | the-children | the-studying-ACC | |

‘The children will not have liked studying.’

The asterisk (*) is a standard notation in syntax indicating that the sentence is ungrammatical.

- | | | | | | | |
|------|------|------------|-----------|--------------|--------------|-----|
| (27) | *qid | lā/lam/lan | yu-ḥebb | al-’aṭfāl | ad-dīrasah | SNA |
| | QAD | NEG | like.IMPF | the-children | the-studying | |

‘The children may/will not have liked studying.’

The asterisk (*) is a standard notation in syntax indicating that the sentence is ungrammatical.

It is likely that example (27) is ungrammatical because these negative particles are not used in SNA. Inter-

estingly, *qid* may follow a negative particle, as in the following example:

- | | | | | | | | |
|------|-----|--|-----|--------------|--------------|------------------|-----|
| (28) | mā | | qid | ḥabb-u | al-’aṭfāl | ad-dīrasah | SNA |
| | NEG | | QAD | like-3MP.PST | the-children | the-studying-ACC | |

‘Indeed, the children have never liked studying.’

2.5. QAD: Adverbial or Particle

Finally, because they behave differently in syntactic derivation, it is important to consider whether QAD is an

adverbial or a particle. To determine this, we now turn to the behavior of adverbials and whether QAD exhibits this behavior. An adverbial is an element that modifies verbs, adjectives, and adverbs by elaborating on how the action

is carried out, or to what degree the adjective or adverb applies. In the following examples, *qad* does not modify the

action of the verb; instead it has modality effects, expressing probability or possibility.

- (29) *qad nazala al-maṭar* CA
QAD descend.3MS.PERF the-rain
'It indeed has rained.'
- (30) *qad ya-nzilu al-maṭar* CA
QAD 3MS-descend.IMPF the-rain
'It might rain.'

Some other properties of QAD that suggest it is a particle rather than an adverbial include the following:

(1) it cannot immediately precede or take scope over adjectives or adverbs, as it is only verb-related; (2) it cannot appear independently of the verb it relates to; and (3) its position in the sentence is primarily determined by its rela-

tion to the verb, i.e., it cannot follow the main verb of the sentence.

To this point, we have classified the restrictions on the environments in which the QAD-class particles (CA *qad* and SNA *qid*) can appear. **Table 1** summarizes the distributional constraints on *qad* and *qid* in CA and SNA.

Table 1. Summary of QAD-class constraints.

Environment	CA Qad	SNA Qid
QAD PERF	yes, ex. (1)	yes, ex. (5)
QAD IMPF	yes, ex. (3)	no, ex. (7)
QAD <i>kāna</i> PERF	no, ex. (11)	no, ex. (11)
QAD <i>kāna</i> IMPF	yes, ex. (9)	yes, ex. (12)
<i>Kāna</i> QAD PERF	yes, ex. (10)	yes, ex. (13)
Prefix-QAD	yes, exs. (16), (17), (18)	no
QAD-suffix	no, ex. (20)	yes, ex. (19)
QAD X verb	yes, ex. (21)	yes, ex. (22)
Sentence Final QAD	yes, ex. (23)	no
QAD <i>lā</i>	yes, ex. (24)	no, ex. (27)
QAD <i>lam/lan</i>	no, exs. (25), (26)	no, ex. (27)

3. Origins of the Particle QAD

As for the origins of *qad*, the oldest attestation of a particle like *qad* is in a Šafaitic inscription dating some-

time between the 1st c. BCE and 4th c. CE. Al-Jallad ^[7]

claims that in the following inscription, *qd* correlates perfectly with CA *qad*.

- (31) *l bṭ w nyk b-grmh f'tm zḥ* *f-qd 'bš* Šafaitic, C285
By Bṭ and he copulated with Grmh as he had celebrated ^[7]
'the sending of the bride **and had been pleased**,' 1st c. BCE – 4th c. CE

For more context, although he does not give an analysis of *qad*, Rubin ^[8] points to several other Semitic languages, namely Ge'ez and several dialects of Neo-Aramaic. In Ge'ez, the verb *qadama* appears to function like *qad*: *la'lla qadama 'a'maromu* 'those whom he knew beforehand' (Rom 8:29) and 'aqdam-ku

wanagarkukamu 'I told you beforehand' (I Thess 3:4). Here the verb is inflected (as seen by the suffix *-ku* and root-pattern alternation between *qadama* and 'aqdam), indicating an early stage of grammaticalization; more on this in Section 4.1. Interestingly, the same verse in Peshitta is rendered as follows.

(32)	<i>qaddem-n</i> before-1CP 'We told you before...'	<i>'emmar-n</i> say.PERF-1CP	<i>lə-kon</i> to-you	Syriac 1 Thess. 3:4 Peshitta
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While CA *qad* is not adverbial but auxiliary, it is likely derived from an adverbial. Although more often used spatially (i.e., 'in front of') than tense-aspectually, the prepositional phrase with *min* 'from', \sqrt{qdm} in Biblical Aramaic (BA) seems to represent a predecessor to Syriac multi-verb structures with *qaddem*. Here, when preceding a verb in the perfect, *min-qōdām-ay* appears to indicate a recently completed past action, just as in *qad* preceding a

perfect verb. Of note, however, is the inflection; the verb following *min-qōdām-ay* is not marked, thereby entailing 3MS, unlike Syriac *qaddem* SVCs and *qad* preceding perfect verbs where the (second) verb is inflected for the agent. Crucially, the subject of *šīm* cannot be *to 'ēm* because it would need to be a theme, but the verb is not passive.

(33)	<i>min-qōdām-ay</i> from-before-1CS 'I have hereby given an order...'	<i>šīm</i> place.3MS.PERF	<i>ṭə 'ēm</i> (a) decree	BA Daniel 6:27 JPS 1985
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Similarly, the following verse demonstrates a stage wherein *min-qōdām* serves to shift the second event (*the Word desired to speak with him*) into a point before the already past first event (*and the sun went down*). In this way, it functions as a sort of pluperfect marker. For this reason it is likely that *qad* derives from \sqrt{qdm} and not $\sqrt{q'm}$, be-

cause *qad* is a tense-aspectual marker that shifts the following event into the past. This is in contrast with $\sqrt{q'm}$, whose semantics more closely resemble progressive aspectual markers, not perfective. A precise dating of the Aramaic of this verse is not known; scholars date the various strata of the text from 1st c. BCE to the 8th c. CE ^[9].

(34)	<i>u-ṭəma'</i> and-sink.3MS.PERF 'and the sun went down before his time'	<i>šimš-ā'</i> sun-the	<i>bəla'</i> without	<i>'išūnēy-h</i> time-his	Targum Pseudo-Jonathan Genesis 28:10 Etheridge, 1862
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<i>min-qōdām</i> from-before 'forasmuch as the Word had'	<i>dəbir-ā'</i> that-be.3MS.PERF	<i>da-hawāh</i> word-the
--	-------------------------------------	-----------------------------

<i>miṭḥamād</i> desire.PART 'desired to speak with him'	<i>lə-malālā'</i> to-speak	<i>'imē-h</i> with-him
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Later, in some dialects of Neo-Aramaic, a particle *qam/kam*, either from the same source or from *qā'im*, 'to rise, stand up', is used to denote past tense more generally, as in the example below from the Northeastern Neo-Ar-

amaic (NENA) dialect of Qaraqosh. In this example, *-lə*, probably a proleptic definiteness marker, represents both part of the past tense **and** a pronominal object. *Kam* is used to avoid the doubling of that clitic ^[8].

<i>ptəx-lə</i>	'he opened'
<i>*ptəx-lə-lə</i>	'he opened it'
<i>kam ptəx-lə</i>	'he opened it'

The asterisk (*) is a standard notation in syntax indicating that the sentence is ungrammatical.

Like SNA *qid*, which it can only precede perfective verbs, NENA *qam* can only precede imperfective verbs^[10]. Unlike CA and SNA however, what Kalin calls the *secondary perfective* — i.e., *qam* appended to the imperfective verb — is semantically equivalent to the *canonical perfective*, i.e., the perfective verb. This suggests a further stage of grammaticalization, where even more featural deterioration has taken place; that is, the particle is attested in a more specialized distribution.

Following Maclean's^[11] suggestion that *qam* has a verbal origin, Rubin^[8] proposes *qam* < *qdam*, the *pe'al* form of the verb *qaddem* 'he was before,' aligning with the Syriac example shown above. Given these parallels, Rubin^[8] posits that the most likely origin of *qad* is a verbal hendiadys with *qad(d)ama*, 'to precede' or 'go/do before'. This aligns nicely with what is known of grammaticaliza-

tion cross-linguistically, namely that tense-aspectual markers often have verbal origin. While the idea that *qad* may derive from a verb such as *qad(d)ama* has been previously proposed^[8], this paper contributes a novel account by integrating this hypothesis into van Gelderen's *Feature Economy* framework. By offering formal syntactic derivations across Semitic cognates and tracing *qad* through a structured grammaticalization path, we aim to refine and extend the original insight.

This hypothesis also correlates with the development of other tense-aspectual markers in Arabic, namely posture verbs like *zalis* 'sit,' movement verbs like *rah* 'go', and volition verbs like *b-* (from *bağa* 'want'). These three markers all have verbal origin, and each is in a different stage of grammaticalization, as we will discuss in Section 4.1.

- | | | | | |
|------|--|-----------------------------------|-----------------------------------|-----|
| (35) | <i>ğalis</i>
PROG
'I'm walking on my feet' | <i>amši</i>
walk.IMPF | <i>'ala riğul-i</i>
on feet-my | SNA |
| (36) | <i>rah</i>
PROSP
'I'm going to walk on my feet' | <i>amši</i>
walk.IMPF | <i>'ala riğul-i</i>
on feet-my | SNA |
| (37) | <i>b-amši</i>
MOD-walk.IMPF
'I will walk on my feet' | <i>'ala riğul-i</i>
on feet-my | | SNA |

If this Semitic data does indeed share a common origins, we can say that the verbs and particles we have mentioned so far all form part of a \sqrt{qdm} class, with Aramaic, Arabic, and Ge'ez subclasses: the first containing NENA *qam*, Syriac *qaddem*, and BA *qōdām*; the second

(the QAD-class) containing SNA *qid*, CA *qad*, and Šafaitic *qd*; and the third containing Ge'ez *qadama*. **Table 2** shows these cognates on a timeline to summarize the sources consulted in this section. The dates used here are approximations.

Table 2. Timeline of \sqrt{qdm} cognates in Semitic.

Approximate Date	Language/ Variety	Attested Cognate
2nd c. BCE	BA	<i>min-qōdāmay šīm tə'ēm</i>
1st c. BCE	Šafaitic	<i>f-qd 'bš</i>
2nd c. CE	Syriac	<i>qaddemn 'emmarn</i>
5th c. CE	Ge'e	<i>la 'əlla qadama 'a 'maromu</i>
6th c. CE	CA	<i>qad mātā</i>
Present	NENA	<i>kəm ptəx-lə</i>
Present	SNA	<i>qid -h y-ākāl 'ašā'-h</i>

While the comparative data surveyed above helps reconstruct the diachronic trajectory of *qad* across Semitic languages, it does not in itself explain the structural mechanics behind this development. To account for *how* lexical material like *qadama* becomes a functional particle in Arabic, and what principles constrain its syntactic reanalysis, we now turn to a formal derivation grounded in Minimalist syntax. This theoretical lens enables us to model the grammaticalization process not just historically, but also structurally — tracing how features degrade and reconfigure across syntactic domains.

4. Minimalist Perspective

From these data emerge several interesting questions, namely, what principles predict the grammaticalization of the particle *qad* in Arabic? That is, which features weakened and which ones emerged in the trajectory from lexical to grammatical elements? To address these questions, we adopt a Minimalist perspective. This theoretical framework allows us to examine the formal characteristics of *qad* and its cognates. We believe that a formal approach is needed to organize the disparate properties of *qad* and its cognates into a coherent account. Given Minimalist assumptions, all syntactic structures are generated by a basic binary set-building operation called Merge. In this paper, these structures are represented using trees. These structures are sent to two interfaces to receive interpretation: the Conceptual-Intentional system, where the structure receives an interpretation in Logical Form LF, and the Sensorimotor system, where the structure receives an interpretation in Phonetic Form PF.

These structures are characterized by a set of relations between the linguistic features of the elements that comprise the structure. The condition of *Full Interpretation* FI requires that these features be assigned an interpretation in LF and PF^[12]. Features that have values, or that are inherently interpretable, are known as interpretable, i.e., [i-F], otherwise, they are uninterpretable, i.e. [u-F]. To ensure FI, Uninterpretable Features require values in order for the derivation to converge. Uninterpretable

features uF are formal syntactic properties that must be checked and deleted during the derivation in order for the sentence to converge^[13].

4.1. Grammaticalization

To trace the development of *qad* from a Minimalist perspective, we turn now to grammaticalization. The simplest definition of grammaticalization is the process by which lexical material becomes functional. Grammaticalization is ubiquitous in language, with examples ranging from the negative cycle to agreement cycles. The type of grammaticalization relevant here is that of tense-aspectual markers.

Grammaticalization progresses along a series of stages, including desemanticization, extension, decategorialization, phonological reduction (i.e., erosion), and reanalysis. The process of grammaticalization is believed to involve these stages^[14–17]. Hopper^[16] observed that for any linguistic item to improve its status in terms of grammaticality or even switch from lexical status to grammatical one, it needs to go through a process that is often termed a channel, chain, cline, or pathway, which is a cross-linguistic phenomenon. The changes that a lexical item undergoes during the grammaticalization process—whether phonological, semantic, or morphosyntactic—are argued to follow a unidirectional path^[16,18]. This process commonly moves from being a content word to achieving grammatical status, then to becoming a clitic, and eventually to manifesting as an inflectional affix^[16]. According to Hopper and Traugott, the transition from lexical to grammatical status does not occur abruptly but proceeds through gradual, smaller changes as the item shifts from one category to another. For instance, a lexical item cannot suddenly grammaticalize without undergoing these intermediary stages. Linguists disagree on the number of pathways a grammaticalized item can go through; however, the “cline of grammaticalization,” as illustrated below by^[16] is a subject of consensus amongst linguists^[14,19]. In short, when a lexical verb goes through the grammaticalization process, it ends up as a TMA marker or a functional category.

Lexical item → Grammatical word → Clitic → Inflectional affix

In **Table 3**, shown below, we posit five stages in the development of Semitic tense-aspectual markers. In the first stage, \sqrt{qdm} is an adjunct with both spatial and temporal features. In the second, it is *extended* to have tense-aspectual effects on the following verb. In the third stage, verbal hendiadys (also known as serial verbs or verbal pseudo-coordination) occurs, where two verbs of more or less equal lexical weight appear in series. In this stage, the first verb may be inflected, as seen in the Ge'ez and Syriac examples above. In the fourth stage, involving *semantic bleaching* (also known as desemanticization) and *decategorialization*, the first verb loses its lexical and categorial content. Unfortunately, there is no documentation of this specific stage occurring with *qad*, but it is likely to

have undergone desemanticization because it has demonstrably undergone decategorialization, i.e., from being the first verb in an SVC (Stage III) to being a tense-aspectual marker as in Stage IV. Additionally, at Stage V, semantic bleaching can be seen in the split of functions of *qad*; that is, at this point *qad* preceding a perfective verb indicates emphasis, while preceding an imperfective verb indicates possibility. This split in function is indirect evidence of desemanticization. In the fifth stage, so much content is lost that the verb is reanalyzed as a tense-aspectual marker; at this point, it can no longer be inflected. By the sixth stage, phonological reduction has reached a point where the tense-aspectual marker becomes affixed either to the verb or to agreement (as in Example 19).

Table 3. Tense-aspectual marker grammaticalization.

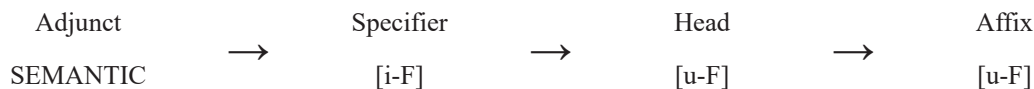
Stage	Grammaticalization Process (with Examples)
Stage 1	adjunct, e.g. BA <i>qōdām YHWH</i> 'before (in front of) YHWH'
Stage 2	extension, e.g. BA min-qōdām-ay šīm ṭə'ēm
Stage 3	verbal hendiadys, e.g. Syriac qaddem-n 'emmar-n
Stage 4	reanalysis to tense-aspectual marker, e.g. CA <i>qad māta</i> / <i>qad</i> 'aktub
Stage 5	phonological reduction, e.g. SNA <i>qid</i> (-h) y-ākal

The question might arise as to how the Aramaic and Arabic stages are related. Because there is little to no extant evidence of Arabic *qad* before Stage IV, we hypothesize a contact-induced change^[20]. Owens^[21] expands on this relationship, which took place over centuries of contact between the Aramaeans and Arab tribes. Given this contact, we model the Arabic *qad* as having carried on the development of the Aramaic \sqrt{qdm} .

The task now is to reconstruct the path of development on which *qad* grammaticalized in terms of linguistic

features. That is, the above stages are descriptively adequate, but they say nothing of the fundamental principles that predict such a cline of development from a Minimalist perspective. For this perspective, we consider grammaticalization as a consequence of *Feature Economy*. According to this, linguistic features deteriorate, consequently transforming the syntactic behavior of the element undergoing grammaticalization.

Feature Economy^[22]: Minimize the semantic and interpretable features in the derivation, e.g.,



In other words, the course of grammaticalization is characterized by a degradation of semantic features, from lexical content to interpretable to uninterpretable features. This degradation also corresponds to a shift in the syntactic function of the grammaticalized element, namely its po-

sition shifts from adjunct, to specifier, to head, and finally to affix. According to this path of development, Stage 1 from **Table 3** corresponds to the first step (adjunct), Stage 2 to the second step (specifier), Stages 3–4 to the third step (head), and Stage 5 to the last step (affix).

As *qad*'s form attested in CA already appears to occupy Stage 5, evidence for *qad* in earlier stages is elusive at best and scant at worst. As aforementioned, *qad* likely derives from *qadama* and presumably would have functioned in much the same way as the Ge'ez and Syriac examples, i.e., inflected and having semantic features.

As for the route of development from CA *qad* to SNA *qid*, more can be said. As will be discussed in Section 4.3, CA *qad* has uninterpretable tense-aspectual and modality features. These features, however, are broader than those of SNA *qid* as seen in Section 2, where we demonstrated that while CA *qad* can precede perfective or imperfective verbs, SNA *qid* can only precede perfective verbs. SNA *qid*, on the other hand, would acquire [uT] features of the form [u-PST], as it can only precede past per-

fective verbs.

We also showed that while CA *qad* can accept prefixes but not suffixes, SNA *qid* can accept suffixes but not prefixes. Assuming only left-adjunction is available, this suggests that while *qad* can be affixed to it (with prefixes), *qid* itself can affix to agreement features in T (pronominal suffixes). In **Figure 1**, we indicate this with [FREE] and [BOUND] features, respectively. That is, *qid* left-adjoins only to a perfective verb or to agreement features in T, whereas *qad* does not yet left-adjoin. The following serves to illustrate the development of features of *qad* from plausible origins as an adjunct, to specifier, to SVC, to CA *qad*, and to SNA *qid*. **Figure 1** corresponds almost perfectly with van Gelderen's ^[22] *Feature Economy*, with the one extra step being SVCs between the SPECIFIER and HEAD: free steps.

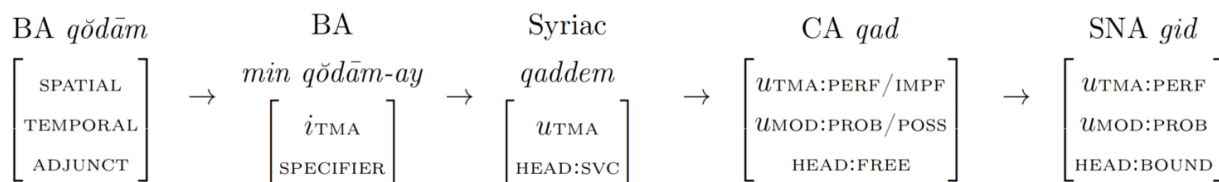


Figure 1. Feature Economy of QAD.

The derivational stages and feature degradation outlined above provide a structural basis for comparing *qad* with other Semitic constructions. We now turn to Biblical Aramaic and Syriac to examine how similar syntactic processes emerge in closely related languages, offering cross-linguistic support for the proposed grammaticalization path.

4.2. Derivation of BA and Syriac Examples

The question now is about the relationship between the examples from other Semitic languages mentioned in Section 3 and *qad*. To examine this relationship, we now consider the derivation of the Biblical Aramaic example (33), as shown in **Figure 2**. Of note, the verb starts low in the VP, then moves up to T to acquire inflection. Also, the PP *min qōdām-ay* is in the specifier of the TP and lends the derivation interpretable features. This corresponds to the second step of van Gelderen's ^[22] *Feature Economy*.

Next, we consider the derivation of SVCs. As seen

in the Ge'ez and Syriac examples above, both verbs in the construction are inflected; in the Syriac example, both *qaddem-n* and *'emmar-n* are inflected for _{ICP}, and in the Ge'ez example, both *'aqdam-ku* and *wana-gar-ku-kəmu* are inflected for _{ICS}. That both verbs are inflected suggests the existence of two TPs: a higher one for \sqrt{qdm} and a lower one for the lexical verb. Both clauses share a little *pro*, which moves via successive Cyclic Movement (i.e., step-by-step movement through intermediate syntactic positions, as per Phase Theory ^[13]). It suggests that syntax operates in domains (phases), such as vP and CP, which restrict operations and regulate accessibility to syntactic constituents. This movement proceeds from the lower to the higher clause, escaping each phase through the escape hatch in the specifiers of vP and CP. This ensures both verbs are inflected with the same phi features. Because the first verb is in the head of T with uninterpretable features, this corresponds to the third step in van Gelderen's ^[22] *Feature Economy*.

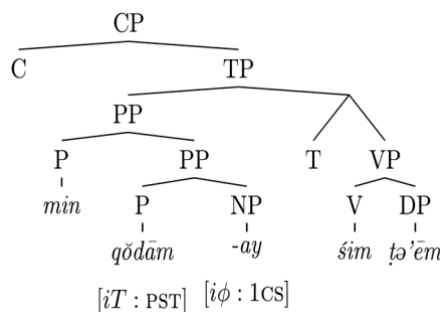


Figure 2. Biblical Aramaic example.

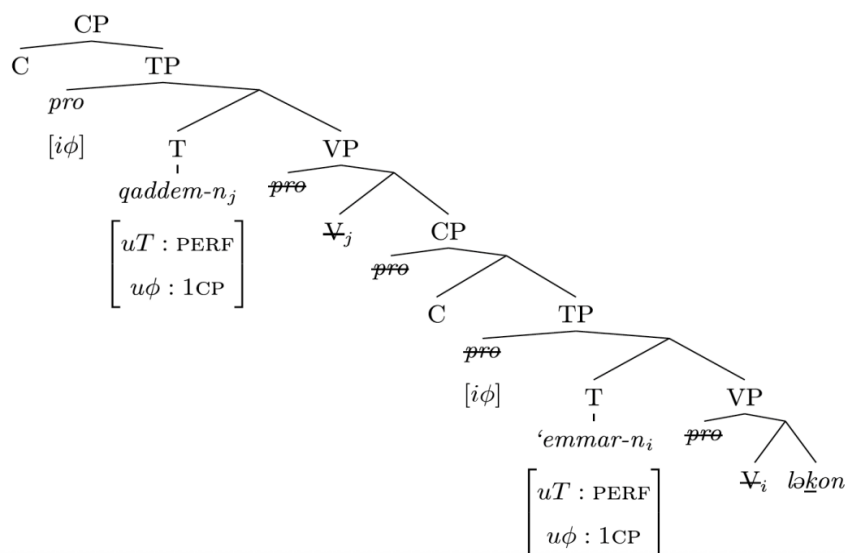


Figure 3. Serial Verb Construction-Syriac example.

The tree in **Figure 3** above represents a snapshot in the derivation just after valuation. That is, T inherits an uninterpretable feature from C, which is then valued *perf* by the interpretable feature in T (or MA, wherever the inflection is). The same is true of the phi features. T carries uninterpretable phi features which are valued, in this case _{1CP}.

If *qad* did in fact derive from verbal hendiadys (i.e., SVC) with *qad(d)ama* as Rubin ^[8] suggested, this structure serves to illustrate a plausible analogy for the origin of *qad*. The question of how this structure is reanalyzed from biclausal to monoclausal would shed more light; nevertheless, the transition period between Late Aramaic and Neo-Aramaic is poorly documented. Similarly, whether or not *qad* was in fact derived from verbal hendiadys with *qad(d)ama* remains unanswered.

4.3. Negation

With a plausible analogy for the origins of *qad*, we

now turn to its development from the first verb in an SVC to head with [uF], and finally to affix with [uF]. From a feature-theoretic standpoint, the data reviewed in Section 2 suggest that *qad* has uninterpretable tense-aspectual and modality features. This implies that *qad* is base-generated as the head of AspP then via successive cyclic movement (i.e., projection by projection), moves to a ModP in the CP domain. Moreover, to explain the dual nature of the particle, we propose that when [uASP] on *qad* is valued [IMPF], its [uMOD] feature is valued [POSSIBLE] (i.e., *may, might, could*), and when it is valued [PERF], [uMOD] is valued [PROBABLE] (i.e., *certainly, indeed, verily*).

To demonstrate this, we turn now to *qad*'s interaction with negation. That *qad* precedes negation suggests the influence of the relative positioning of functional heads above the VP. Fassi Fehri ^[23] refers to *qad* as a *modality particle*, which expresses probability, and proposes the following structure (see **Figure 4**).

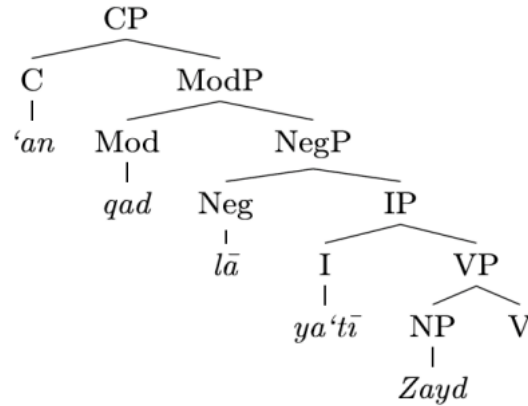


Figure 4. *qad* with Negation.

Benmamoun^[24] and Aoun et al.^[25], however, place the negative projection between the TP and the VP. This aligns more closely with the fact that some negative particles are tensed; if the negative particle is base-generated in its own projection, it would move up the structure to acquire tense. For the purposes of this paper, we will adopt this positioning

and Fassi Fehri's^[23] final placement of *qad* in ModP.

Of the several negative particles in CA, we consider *lā*, *lam*, and *lan*. The following examples serve to introduce these negative particles and their functions^[26]. They can be classified as either tensed, i.e., *lam* and *lan*, or tenseless, i.e., *lā*.

- | | | | | | |
|------|--------------------------------|------------------|----------------|--------------------|----|
| (38) | <i>lā</i> | <i>ya-gra 'u</i> | <i>Zayd-un</i> | <i>'al-kitāb-a</i> | CA |
| | NEG | 3MS-read-IND | Zayd-NOM | the-book-ACC | |
| | 'Zayd is not reading the book' | | | | |
| (39) | <i>lam</i> | <i>ya-gra '∅</i> | <i>Zayd-un</i> | <i>'al-kitāb-a</i> | CA |
| | NEG.PST | 3MS-read-JUSS | Zayd-NOM | the-book-ACC | |
| | 'Zayd did not read the book' | | | | |
| (40) | <i>lan</i> | <i>ya-gra 'a</i> | <i>Zayd-un</i> | <i>'al-kitāb-a</i> | CA |
| | NEG.FUT | 3MS-read-SUB | Zayd-NOM | the-book-ACC | |
| | 'Zayd will not read the book' | | | | |

As seen in the examples below, according to Fassi Fehri^[23], *qad* can only precede certain negative particles,

i.e., *lam* and *lā*, and not *lan*. The question is: what is it about these particles that allows or disallows *qad* to precede them?

- | | | | | |
|------|------------------------|------------|----------------|-----------------|
| (41) | <i>qad</i> | <i>lam</i> | <i>y-a 'tī</i> | CA |
| | QAD | not.PST | comes | ^[23] |
| | 'He may not have come' | | | |
| (42) | <i>qad</i> | <i>lā</i> | <i>y-a 'tī</i> | CA |
| | QAD | not | comes | |
| | 'He may not come' | | | |
| (43) | <i>qad</i> | <i>lan</i> | <i>y-a 'tī</i> | CA |
| | QAD | not.FUT | comes | |
| | 'He may not have come' | | | |

According to the author's judgements, *qad lam ya-tī* is also ungrammatical, leaving only *lā*. This suggests that either

qad lam was at one point grammatical but, to modern ears, is no longer, or that it had never been grammatical. Given that there are no examples of *qad lam* or *qad lan* in the Qur'ān, the latter possibility is more likely. Interestingly, *qad lā* does not appear in the Qur'ān either, but it is attested in pre- and early Islamic poetry, as seen in the following examples.

- (44) *'alā man mubliḡ-un 'amra bna hind-i* 'Al-Ḥirniq bint Badr
is anyone imparting Omar son Hind Pre-Islamic CA
'Is there anyone to impart tidings to 'Amr Ibn Hind'

wa-qad lā tu-'adam-u al-ḥasnā'-u dāmā
and-QAD NEG 3FS-spare-IND the-beautiful-NOM slander
'For the beautiful woman will not be spared from slander.'

- (45) *wa ma zanan-ta anna-hu sa-ya-f'al-u-hu* al-Qāḍī al-Nu'mān
and what doubt-IN- that-he FUT-3MS-make.IMPF-IND-he Abbasid Caliphate
DEF

'And what you had thought he would make,'

fa-daka zann-un min-k-a qad lā ya-f'al-u-hu
then-that doubt-IN- doubt-INDEF from-you-ACC may NEG 3MS-do-
DEF IND-he

'is merely a speculation of yours he may not do'

Benmamoun^[24] argues that *lā* and its variants is the head of their own negative phrase, NegP, and as we have seen, *qad* is the head of its own modality phrase, ModP. So far, this leads to the following interim conclusions: (1) *lā* carries no tense features, (2) *lam* and *lan* move to T to realize interpretable T features, and (3) as head of the ModP, *qad* has an uninterpretable MOD feature. The question remains: why *qad* is only permissible with *lā*.

As mentioned above, along with [uMOD], *qad* carries uninterpretable tense-aspectual features, which can be valued by [iPERF] or [iIMPF], call it [iASP]. This implies that *qad* originates in the Aspect Phrase (AspP), and that it carries tense and aspect features that are not inherently

interpretable. These features must be valued by the Tense Phrase (TP), which, in this paper, includes tense, mood, and aspect (collectively referred to as TMA). In the case of *qad lā* constructions, the negative particle does not move from its base-generated position. This is illustrated in **Figure 5**, which shows *qad* as the head of ModP and *lā* occupying Neg. The behavior of negation in these environments reflects the logic of *Feature Economy*: uninterpretable features on functional heads such as *qad* prevent lower elements (e.g., negation) from moving to T, blocking valuation and thereby altering clausal word order. Following Benmamoun's^[24] analysis, the verb raises to T only when the negative is tensed.

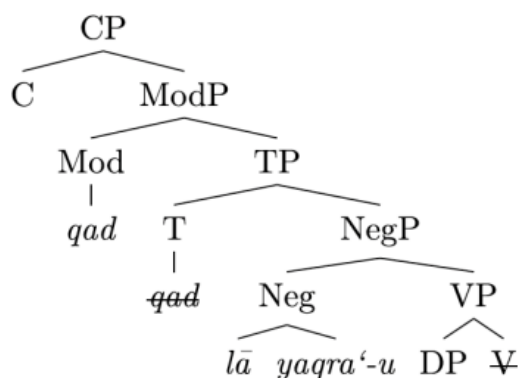


Figure 5. Derivation of *qad lā*.

The incompatibility of *qad* with tensed negative particles (e.g., *lam*, *lan*) follows naturally from its position as a head with uninterpretable features. Within the *Feature Economy* model, uninterpretable features ([uT], [uMOD], [uASP]) must be valued in the course of the derivation. We propose that *qad* originates in AspP with [uASP] and moves cyclically to ModP. This movement occupies a structural position that intervenes between the TP and NegP. When *qad* occupies ModP, it disrupts the standard feature-checking path: tensed negatives like *lam* and *lan*, which need to raise to T to check [iT] or [iMood] features, are blocked from doing so because *qad* already saturates that space. This intervention makes the derivation crash under Full Interpretation (i.e., the principle requiring all features to be checked or deleted before Spell-Out), thus ruling out *qad lan* and *qad lam*. By contrast, *lā*, which does not raise and carries no interpretable features, remains in situ and is thus compatible with *qad*. This structural asym-

metry elegantly explains the grammaticality patterns and aligns with the unidirectional loss of interpretable features expected in *Feature Economy*.

Because *qad* is base-generated in AspP and moves to ModP via successive cyclic movement, tensed negative particles are unable to move to T to realize interpretable T features there. This explains why *qad* cannot be followed by tensed negative particles. This interaction between *qad* and negation exemplifies how grammaticalization can restructure the syntactic licensing of other functional heads, further supporting the modeling of *qad* as a head with [uF] in the Minimalist architecture. As for *mā*, it is interesting that it may precede *qid*, as in **Figure 6**. This is likely due to the fact that *qid* is affixal – *mā* left-adjoins to *qid* at T and the complex *mā qid* merges as a whole into Mod. The syntax of clitics, as seems to be the case here, is complex and better left to further research.

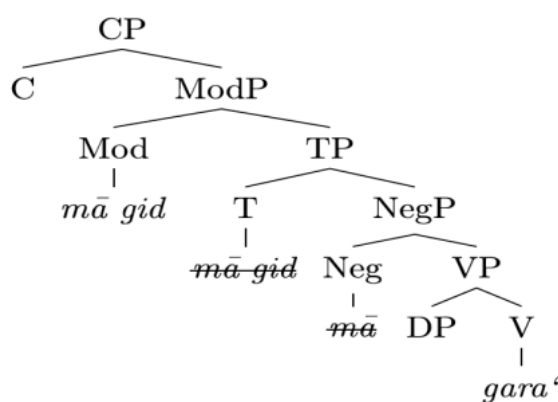


Figure 6: *mā qid* as a clitic complex.

5. Conclusions

The central claim of this paper is that *qad* likely grammaticalized along a path similar to cognate markers in Safaitic, Biblical Aramaic, Syriac, and Ge'ez. We compare and contrast *qad* with its cognates, demonstrating that while the morphosyntactic behavior of the former is distinct from that of the latter, this is to be expected given the current understanding of grammaticalization. We show that SNA *qid* is the natural grammaticalized continuation of CA *qad* in that its syntax is more restricted in some senses, e.g. by failing to appear before imperfect verbs, and less restricted in other senses, e.g., by being able to acquire

pronominal suffixes.

We determined that, given these analogies and other tense-aspectual markers in Arabic, *qad* is likely to have derived from a verb, especially in light of evidence of a Syriac cognate appearing in SVCs. We introduce a Minimalist perspective, from which we are able to ask what principles predict the grammaticalization of the particle *qad*. With this in mind, we outline first a series of stages through which *qad* is likely to have passed according to the principles of grammaticalization. Then, we compare this series with van Gelderen's ^[22] *Feature Economy* whereby grammaticalization is characterized by a degradation of linguistic features from lexical content to [iF] to [uF], which, in turn,

results in a transformation of the syntactic behavior of the element undergoing grammaticalization, i.e., from specifier to head to affix. Using this as a template, we predict that *qad* would grammaticalize according to these principles.

While Classical Arabic *qad* and SNA *qid* share a common origin, their grammaticalization paths diverged in interesting ways. *Qad* retains the ability to co-occur with imperfect verbs and resists pronominal suffixes, aligning with its status as a functional head with uninterpretable features. In contrast, *qid* does not appear before imperfect verbs but allows pronominal suffixes, suggesting that it has grammaticalized further into the morphological domain. This asymmetry offers insights into variation within Semitic grammaticalization pathways.

We then consider the derivation of the Biblical Aramaic and Syriac examples, demonstrating that, as expected, the former corresponds to the second step in van Gelderen's ^[22] *Feature Economy*, where the grammaticalized element occupies the specifier of TP and lends interpretable features to the derivation, and the latter corresponds to the third step in the *Feature Economy*, where the grammaticalized element is now a head carrying uninterpretable features.

Finally, we conclude with CA *qad*'s and SNA *qid*'s relationship with negation. As we expect *qad* to be a head with uninterpretable features, we do in fact see that this must be the case given how it interacts with negation; namely, it cannot precede tensed negative particles because these particles are unable to move to the TP domain (where *qad* is base-generated as the head of AspP) to acquire tense.

Author Contributions

Conceptualization, M.A. and J.W.; methodology, M.A. and J.W.; formal analysis, M.A. and J.W.; investigation, M.A. and J.W.; resources, M.A. and J.W.; data curation, M.A. and J.W.; writing—original draft preparation, M.A. and J.W.; writing—review and editing, M.A. and J.W.; visualization, M.A. and J.W.; supervision, M.A. and J.W.; project administration, M.A. and J.W.; funding acquisition, M.A.. All authors have read and agreed to the published version of the manuscript..

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Data Availability Statement

No new datasets were generated or analyzed during the current study. All linguistic examples are drawn from publicly available published sources, cited within the manuscript, or from the authors' own grammaticality judgments.

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Conflict of Interest

The authors declare no conflict of interest. The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript; or in the decision to publish the results.

References

- [1] Croft, W., 2002. *Typology and Universals*. Cambridge University Press: Cambridge, UK.
- [2] Andrason, A., Aikhenvald, A.Y., 2022. The rise and fall of serial verb constructions: Preamble. *Stellenbosch Papers in Linguistics Plus*. 65(1), 1–9. DOI: <https://doi.org/10.5842/65-1-965>

- [3] Salamah, A.D., 2019. The Arabic aspectual marker qad from the perspective of the two-component theory of aspect. *Journal of Language and Education*. 5(1), 49–62. DOI: <https://doi.org/10.17323/2411-7390-2019-5-1-49-62>
- [4] Bahloul, M., 2007. *Structure and Function of the Arabic Verb*. Taylor & Francis: London, UK.
- [5] Al-Aswad, M.K., 1983. Contrastive analysis of Arabic and English verbs in tense, aspect, and structure [Ph.D. Thesis]. University of Michigan: Ann Arbor, MI, USA, pp. 1–250.
- [6] Lane, E.W., 1872. *Arabic-English Lexicon*. Islamic Book Centre: Cairo, Egypt.
- [7] Al-Jallad, A., 2015. *An Outline of the Grammar of the Safaitic Inscriptions*. Brill: Leiden, Netherlands. DOI: <https://doi.org/10.1163/9789004289826>
- [8] Rubin, A.D., 2005. *Studies in Semitic Grammaticalization*. Brill: Leiden, Netherlands.
- [9] Freedman, H.S., 1999. *The Halacha in the Targum to the Torah attributed to Yonatan ben Uzziel* [Ph.D. thesis]. University College London: London, UK.
- [10] Kalin, L., 2016. The morphosyntax of aspect stacking in Northeastern Neo-Aramaic. *Glossa: A Journal of General Linguistics*. 1(1), 1–36. DOI: <https://doi.org/10.5334/gjgl.200>
- [11] Maclean, A.J., 1895. *Grammar of the Dialects of Vernacular Syriac*. Cambridge University Press: Cambridge, UK.
- [12] Chomsky, N., 1986. *Knowledge of Language: Its Nature, Origin, and Use*. Greenwood Publishing Group: Westport, CT, USA.
- [13] Chomsky, N., 2000. Minimalist inquiries: The framework. In: Martin, R., Michaels, D., Uriagereka, J. (eds.). *Step by Step: Essays on Minimalist Syntax in Honor of Howard Lasnik*. MIT Press: Cambridge, MA, USA, pp. 89–155.
- [14] Bybee, J.L., 1994. *The Evolution of Grammar: Tense, Aspect, and Modality in the Languages of the World*. University of Chicago Press: Chicago, IL, USA.
- [15] Hopper, P.J., 1996. Some recent trends in grammaticalization. *Annual Review of Anthropology*. 25(1), 217–236. DOI: <https://doi.org/10.1146/annurev.anthro.25.1.217>
- [16] Hopper, P.J., 2003. *Grammaticalization*. Cambridge University Press: Cambridge, UK.
- [17] Bybee, J.L., Perkins, R.D., Pagliuca, W., 1991. Back to the future. In: Heine, B., Traugott, E.C. (eds.). *Approaches to Grammaticalization: Volume II. Types of Grammatical Markers*. John Benjamins Publishing Company: Amsterdam, Netherlands. pp. 17–58.
- [18] Lehmann, C., 2015. *Thoughts on Grammaticalization*. Language Science Press: Berlin, Germany.
- [19] Heine, B., Kuteva, T., 2007. *The Genesis of Grammar: A Reconstruction*. Oxford University Press: Oxford, UK.
- [20] Versteegh, K., 2001. Linguistic contacts between Arabic and other languages. *Arabica*. 48(4), 470–508. DOI: <https://doi.org/10.1163/157005801323163825>
- [21] Owens, J., 2023. *Arabic and the Case against Linearity in Historical Linguistics*. Oxford University Press: Oxford, UK.
- [22] van Gelderen, E., 2011. *The Linguistic Cycle: Language Change and the Language Faculty*. Oxford University Press: Oxford, UK.
- [23] Fehri, A.F., 1993. *Issues in the Structure of Arabic Clauses and Words*. Kluwer Academic: Dordrecht, Netherlands.
- [24] Benmamoun, E., 2000. *The Feature Structure of Functional Categories: A Comparative Study of Arabic Dialects*. Oxford University Press: New York, NY, USA.
- [25] Aoun, J.E., Benmamoun, E., Choueiri, L., 2009. *The Syntax of Arabic*. Cambridge University Press: Cambridge, UK.
- [26] Soltan, U., 2007. On formal feature licensing in minimalism: Aspects of Standard Arabic morphosyntax [Ph.D. Thesis]. University of Maryland: College Park, MD, USA. pp. 1–300.