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THE SYNTAX AND SEMANTICS OF VÉGIG

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Introduction

contrasts in (1)- $(4)^1$. productivity is its ability to transitivize strictly intransitive verbs, as witnessed by the prefixes (a.k.a. preverbs) in Hungarian (Fülei-Szántó 1989: 313). A striking sign of this throughout', pronounced [ve:gig], with initial stress) is one of the most productive verbal Végig (lit. 'end-TERM, i.e., '(up) to the (very) end, from beginning to end,

- (1) a. Réka végig•táncolta Réka végig-danced 'Réka danced throughout the night.' the night-ACC éjszaká-t.
- Réka danced *Réka táncolta az the éjszakát. night-ACC

6

2 'Tamás worked throughout the week.' Tamás végig-worked végig•dolgozta a het-et. the week-ACC

(2)

Tamás *Tamás dolgozta a het-et. worked the week-ACC

5

version of the paper. Finally, special credit goes to the editors of this volume for their efforts in reformatting the our many discussions about végig beginning in 1998 in Budapest and continuing thereafter at various times and The author's email address: pinon@phil-fak.uni-duesseldorf.de fellowship from Collegium Budapest during the academic year 1997/98. paper in MS Word. This work was supported by German Science Foundation (SFB 282, Teilprojekt D3) and a places. I also thank an anonymus reviewer whose useful comments and criticism helped me in preparing the final Hungarian at Janus Pannonius University in Pécs, Hungary on 27 August 1998. I am grateful to Andrea Velich for An ealier version of this paper was presented at the Fourth International Conference on the Structure of

interpretation (in accordance with Hungarian ortography). In addition, I make use of the following abbreviations in be written together in Hungarian ortography) and write végig as a separate word when it is used in its time-related employ a dot (*) to separate végig from the verb when végig is used in its object-ralted interpretation (they would I render végig as 'végig' in the glosses and vary its free translation as appropriate. Anticipating somewhat, I

the glosses:

COMP ACC ABL illative (into') complementizer ablative ('from') delative ('off of') accusative PART NEG NE K SZ participle negative instrumental ('with') infinitive inessive ('in') SUP SUB terminative ('up to') superessive ('on') sublative ('onto') preverb

Hungarian), Népszabadság (a Hungarian daily), Pesti Est (a Hungarian weekly), and Presszó (a Hungarian film, The sources of the naturally occurring examples are: HIX azsia and HIX para (Internet discussion lists in

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- (3) 2. végig-kissed-one-another-3PL 'They kissed throughout (the duration of) the whole film.' Végig°csókolózták az egész filmet. (*Presszó*) the whole film-ACC
- 6 kissed-one-another-3PL the whole *Csókolózták az egész film-et. film-ACC
- (4) 2 De Niro and Crystal $v\acute{e}gig$ -quarrel the film-ACC [...] 'De Niro and Crystal quarrel throughoutthe film [...]' De Niro és Crystal végig•veszekszi a mozi-t [...] (Népszabadság)
- *De Niro és Crystal veszekszi a mozi-t. De Niro and Crystal quarrel the film-ACC

subcategorize for an accusative case marked object, whereas the addition of végig evidently enables them to do so. I will refer to this use of végig as its transitivizing function. 'dance', dolgozik 'work', csókolózik 'kiss one another', and veszekedik 'quarrel' do not The (b)-sentences in (1)-(4) are ungrammatical because the intransitive verbs táncol

together with many intransitive verbs without affecting their argumentstructure at all, as the following variations on (1)-(4) demonstrate: However, végig does not always function as a transitivizer. In fact, it may appear

- \odot 9 Réka végig táncolt Réka végig danced 'Réka danced throughout the night.' the night az éjszaka
- 0 Réka Réka 'Réka danced during the night.' táncolt danced az éjszaka. the night
- 6 2 Tamás Tamás 'Tamás worked throughout the week.' végig worked the week-SUP végig dolgozott a hét-en.

the noun mozi literally means 'cinema', here it is used colloquially to mean 'film'. De Niro and Crystal are actors in the film and they quarrel throughout. In (3a) the context is that of a couple who went to the cinema and kissed throughout the film. In (4a), although

marked object triggers the indefinite conjugation). Accordingly, the verbs in (1)-(4) appear in the definite conjugations has no direct bearing on végig, I do not mark them in the glosses. conjugation, whereas those in (5)-(8) show up in the indefinite conjugation. Since the distribution of these two whether the accusative case marked object is definite or indefinite (where the absence of an accusative case Hungarian has both a definite and an indefinite verbal conjugation, the choise between the two depending on

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- 0 'Tamás worked during the week.' worked the week-SUP dolgozott a hét-en.
- 3 2. 'They kissed throughout (the duration of) the whole film.' whole film-SUP under végig kissed-one-another-3PI egész film alatt végig csókolózt-ak
- ġ. 'They kissed during the whole film.' whole film-SUP under kissed-one another-3PI egész film alatt csókolózt-ak
- 8 2 De Niro and Crystal De Niro és 'De Niro and Crystal quarrel throughout the cinema Crystal the cinema a mozi under végig quarrel alatt végig veszekszik.
- 6 'De Niro and Crystal quarrel during the cinema.' De Niro and Crystal De Niro és Crystal the cinema a mozi under quarrel alatt veszekszik

phrase modifying function. marked object that they do not subcategorize for. I will refer to this use of végig as its verb grammatical, precisely because the verbs here are not forced to take anaccusative case In contrast to the (b)-sentences of (1)-(4), the corresponding ones in (3)-(8) are

5.3.2. I will show how these two functions of végig can contributeto the same meanings at shown by the fact that it transitivizes the verb in the former but not the latter? In section synonymy to be reconciled with the intuition that végig is more intimately connected to the verb in the(a)-sentences of (1)-(4) than it is in the corresponding sentences of (5)-(8), as make the second true as well. Yet how does this synonymy come about? And how is this throughout the night — it seems that any situation thatmakes the first sentence true must receives the same interpretation. For example, both (1a) and (5a) assert that Réka danced the sentence level. Comparing the (a)-sentences of (1)-(4) with those of (5)-(8), we find that each pair

argument, as the following pairs of examples demonstrate: something about an already existing (and not necessarily accusative case marked) argument of the verb. This use differs from the transitivizing function of $v\acute{e}gig$ in (1)-(4) in that it does not add an accusative case marked argument to the verb but rather asserts A third —and probably the most common— use of végig is to 'affect' an existing

arc-á-n 'tears flowed Tamás face-POSS.3SG-SUP'. In (10a) it would be more natural to use a bare plural subject in preverbal position: Könnyek folytak Tamás

- (9) a. emberek aprólékosan végig•böngész-szék since the summer heatwave-INE people Mivel a nyári minutely browse the cinema program from beginning to end $[\ldots]$ 'Since during the summer heatwave it isn't very probable that people will minutely kánikulá-ban végig-browse-IMP.3PL the cinema-program-ACC[...] NEG very nem nagyon a moziműsor-t [...] (Pesti Est) várható, probable COMP the hogy az
- 0 since the summer heatwave-INE Mivel a nyári minutely browse the cinema program [...]' people emberek aprólékosan böngész-szék 'Since during the summer heatwave it isn't very probable that people will minutely kánikulá-ban browse-IMP.3PL the cinema-program-ACC NEG nem nagyon moziműsor-t [...] very várható, várható, hogy az probable COMP the
- (10) a. A könnyek végig•folyt-ak Tamás 'The tears flowed all over Tamás's face.' végig-flowed-3PL Tamás face-POSS.3SG-SUP arc-a-n
- 5 flowed-3PL Folyt-ak 'The tears flowed on Tamás's face.' the tears a könnyek Tamás Tamás arc-á-n. face-POSS.3SG-SUP
- (11) a. Végig•repedt vegig-cracked 'The earth cracked all over.' the earth a föld.
- Ò, cracked Repedt 'The earth cracked. the earth a föld.

a superessive case marked complement; and in (11a), about the referent of a nominative (b)-sentences of (1)-(4). I will refer to this use of végig as its verb modifying function. argument in question independently of végig, in contrast to what we saw in the case marked subject. The (b)-sentences show that the respective verbs select for the type of participates in the event denoted by the verb; in (10a) it says the same about the referent of In (9a) végig 'affects' an accusative case marked object, stating that its referent fully

that the verb modifying function is best grouped together with the transitivizing function of related to the transitivizing and verb phrase modifying functions? In section 2 I will argue végig, because both operate on the verb asopposed to the verb phrase. In sum, we have three functions of végig — but how is the verb modifyingfunction

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argue that thereis also végig as an adverb and will offer treatments of both. Fülei-Szántó's of végig. First, Fülei-Szántó concentrates exclusively on végig as a preverb, whereas I will challenge in analyzing végig lies in giving a compositional semantics that accounts for its function, as witnessed in the (a)-sentences in (1)-(4) and (5)-(8). And second, a major neglect of végig as an adverb has the consequence that he ignores the verbphrase modifying distributional properties, something that Fülei-Szántó does not attempt. function of végig and misses the striking similarity between it and the transitivizing Fülei-Szántó's examples and observations are useful, they fall short of an explicit analysis the discussion takes the form of a number of examples together with commentary. While literature on Hungarian, and when it has received attention, as in Fülei-Szántó (1989, 1991). Despite its productivity, végig has received comparatively little attentionin the

Two interpretations

vegig with respect to them. and to classify the transitivizing, verb phrase modifying, and verb modifying functions of The immediate task is to argue for the view that vegig has two main interpretations

illustrated in (12). Intuitively, the object-related interpretation states that the referent of the internal argument of the verb fully participates in the event denoted by the verb. The first sense of végig is what I will call its object-related interpretation, as

- (12) a. 'A sigh of relief swept throughout the Budapest Stock Exchange yesterday.' Felszabadult sóhaj söpört végig tegnap liberated (Népszabadság) sigh swept végig yesterday the Budapest stock-exchange-SUP a budapesti tőzsdé-n
- 5 A konferencia résztvevő-i the conference participants-POSS.PL.3SG végig-listened-to-3PL the lecture-ACC 'The conference participants listened to the lecture from beginning to end.' végig•hallgatt-ák az előadás-t.
- c. Réka végig-read the article-ACC Réka végig•olvasta a cikk-et. 'Réka read the article from beginning to end.

participants; and in (12c), that every part of the article was read by Réka. sighed; in (12b), that every part of the lecture was listened to by the conference In (12a) we understand that every stockbroker at the Budapest Stock Exchange

at the Budapest Stock Exchange (since people sigh, not stock exchanges). In contrast, the though, that Budapest Stock Exchange in (12a) is really the group of stockbrokers working object'. Of the examples in (12), perhaps only the Budapest Stock Exchange in (12a) and the article in (12c) are viable candidates for the status of singular physical objects. Note, By 'object-related' I understand 'object' more broadly than as 'singular physical

lecture in (12b) is no doubt a rendition or *event* that the conference participants can listen to. An even clearer example of an event as the object for *végig* is given in (13), where the author urges that every part of the process of privatization be carried out.⁵

(13) A költségvetési egyensúly-t helyre kell állít-ani [...] a magánosítás-t the budget balance-ACC PV must restore-INF [...] the privatization-ACC pedig végig kell vin-ni. (Népszabadság) and végig must take-INF
'A balanced budget must be restored [...] and privatization must be carried out to the very end.'

Since *végig* in its object-related interpretation treats articles, lectures, the Budapest Stock Exchange, and privativization on a par, this justifies my use of 'object' in a broad sense in 'object-related', as not restricted to singular physical objects.

The second sense of *végig* is what I will call its *time-related* interpretation, as exemplified in (14). In this case, the intuition is that a certain time is 'filled' by the event denoted by the verb.

Sometimes the verb that *végig* in its object-related interpretation combines with differs in selectional restrictions from the resulting combination. In such cases a greater or lesser degree of lexicalization is at work. For example, although the verb *visz* (the infinitive is *vinni*) 'take' in (13) is transitive, without *végig* it cannot take an event-denoting noun phrase (e.g. *magánosítás* 'privativization') as its object. See footnote 6 for another example.

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- (14)a.Aki sportolt who pursued-some-sport ever competitively, sometimes also drive me by force from beginning to end during the workout [...]' following feeling: I want to win, I want to be better, but if the trainer wouldn't 'Whoever has pursued some sport competitively is more likely to know the erőszak-kal be-INF but if the trainer sometimes NEG drive-POT ısmer-heti force-INST also the workout-SUP [...] len-ni, de ha az edző néha know-POT.3SG this-ACC the feeling-ACC want-1SG win-INF want-1SG better az edzés-en az érzés-t: valaha versenyszerűen, nem [...] (HIX ázsia) akar-ok győz-ni, akar-ok jobb hajt-ana that person more-likely méginkább
- b. A diákok végig ott maradt-ak a buli-n. the students *végig* there stayed-3PL the party-SUP 'The students stayed at the party until the end.'
- c. Réka végig olvasta a cikk-et, amíg Tamás zuhanyozott. Réka *végig* read the article-ACC while Tamás took-a-shower 'Réka read the article all time while Tamás took a shower.'

In (14a) the athlete is driven by force throughout the workout; in (14b) thestudents stayed as long as the party lasted; and in (14c), in contrast to (12c), Réka need not have finished reading the article — what is asserted is that shespent the whole time reading the article while Tamás took a shower.

Henceforth I will often employ superscripts to make clear which interpretation of végig is at issue in a given example. Specifically, the superscripts 'o' ($\nu \acute{e}gig^{\circ}$) and 't' ($\nu \acute{e}gig^{\circ}$) will signal the object- and time-related interpretations, respectively, and the absence of a superscript will leave the intended interpretation open.

The time in question for the time-related interpretation of $v\acute{e}gig$ may not always be explicitly described in the sentence. For example, the following variant of (12c) is acceptable even though the relevant time has to be inferred from the context of use:

Réka végig tolvasta a cikk-et.
 Réka végig read the article-ACC
 'Réka read the article throughout the time in question.'

The difference between the object- and time-related interpretations of végig can be made more palpable by employing the adverb mindvégig (lit. 'all-végig') as a diagnostic for the time-related interpretation. This can be done because the meaning of mindvégig is unambiguous and is equivalent to the time-related interpretation of végig, as the synonymy of the pair in (16) indicates.

(16) a. things-written Castañeda mindvégig Castañeda all-végig invented PVout talált word-DEL <u>M</u> szó-ról az-t that-ACC claimed COMP the books-POSS.3SG-PL-INE (HIX para) word-SUB SZÓ-IZ állította, hogy took-place-3PL megtörtént-ek, a könyv-e-i-ben he nothing-ACC

'Castañeda claimed until the very end that the things written in his books took place word for word and that he didn't make up anything.'

Castañeda végig^t azt állította, hogy [...]
 Castañeda claimed until the very end, that [...]

If mindvégig and the time-related interpretation of végig are equivalent, it follows that if we substitute mindvégig for végig in (12b) and (12c), as in (17), then the object-related interpretation of végig will no longer be available, which is indeed the case.⁶

- (17) a. A konferencia részvevő-i mindvégig hallgatt-ák az előadás-t. (Cf.(12b)) the conference participants-POSS.PL.3SG all-végig listened-to-3PL the lecture-ACC 'The conference participants listened to the lecture throughout the time in question.'
- b. Réka mindvégig olvasta a cikk-et. (Cf.(12c))
 Réka all-végig read the article-ACC
 'Réka read the article throughout the time in question.'

By comparison, the substitution of *mindvégig* for $v\acute{e}gig$ in (14) preserves the latter's time-related interpretation, as seen in (18).

- (18) a. Aki sportolt valaha versenyszerűen, az méginkább ismerheti ezt az érzést: akarok győzni, akarok jobb lenni, de ha az edző néha nem hajtana mindvégig erőszakkal is az edzésen [...] (Cf. (14a))
 'Whoever has pursued some sport competitively is more likely toknow the following feeling: I want to win, I want to be better, but if the trainer wouldn't
- sometimes also drive me by force from beginning to end during the workout [...] A diákok mindvégig ott maradtak a bulin. (Cf. (14b))
 'The students stayed at the party until the end.'

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c. Réka mindvégig olvasta a cikket, amíg Tamás zuhanyozott. (Cf.(14c)) 'Réka read the article all the time while Tamás took a shower.'

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Given this diagnostic for the time-related interpretation of $v\acute{e}gig$, let us consider how the three functions of $v\acute{e}gig$ introduced in the previous section pattern. Since the examples of the object-related interpretation in this section are all instances of the verb modifying function of $v\acute{e}gig$, it is reasonable to suppose that the verb modifying function in general falls under the object-related interpretation and that $v\acute{e}gig$ in this case cannot be replaced by mind $v\acute{e}gig$ without requiring a shift to the time-related interpretation. This is verified for the (a)-sentences of (9)-(11) as follows:

- (19) a. Mivel a nyári kánikulá-ban nem nagyon várható, hogy since the summer heatwave-INE NEG very probable COMP az emberek aprólékosan mindvégig böngész-szék a moziműsor-t (Cf.(9a.)) the people minutely all-végig browse-IMP.3PL the cinema-program-ACC 'Since during the summer heatwave it isn't very probable that people will minutely browse the cinema program throughout the time in question.'
- b. Mindvégig folyt-ak a könnyek Tamás arc-á-n. (Cf.(10a) all-*végig* flowed-3PL the tears Tamás face-POSS.3SG-SUP 'Tears flowed on Tamás's face throughout the time in question.'
- c. Mindvégig repedt a föld. (Cf.(11a)) all-végig cracked the earth 'The earth cracked throughout the time in question.'

Turning to the transitivizing function of $v\acute{e}gig$, it is immediately clear that $mindv\acute{e}gig$ cannot replace $v\acute{e}gig$ in the (a)-sentences of (1)-(4), which is evidence that the transitivizing function also falls under the object-related interpretation:

- (20) a. *Réka mindvégig táncolta az éjszaká-t. (Cf.(1a))
 Réka all-*végig* danced the night-ACC
- b. *Tamás mindvégig dolgozta a het-et. (Cf.(2a))
 Tamás all-*végig* worked the week-ACC
- c. *Mindvégig csókolózt-ák az egész film-et. (Cf.(3a)) all-*végig* kissed-3PL the whole film-ACC
- d. *De Niro és Crystal mindvégig veszekszi a mozi-t [...] (Cf.(4a))

 De Niro and Crystal all-*végig* quarrell the cinema-ACC [...]

This substitution is not always possible, e.g. in (12a), where νέgig°-söpör has a nonliteral sense of 'sweep that söpör (lit. 'sweep') without νέgig° lacks.

by mindvégig in the (a)-sentences of (5)-(8) without inducing a shift in meaning related interpretation, as is shown by the fact that végig in this case can be easily replaced Finally, the verb phrase modifying function of végig evidently falls underthe time-

Réka Réka 'Réka danced throughout the night.' the night az éjszaka során course-POSS.3SG-SUPall-végig mindvégig danced táncolt (Cf.(5a))

6 'Tamás worked throughout the week.' Tamás the week course-POSS.3SG-SUPall-végig hét folyam-á-n mindvégig dolgozott worked (Cf.(6a))

C the whole film Az egesz 'They kissed throughout (the duration of) the whole film.' film under all-végig alatt mindvégig csókolózt-ak kissed-3PL (Cf.(7a))

0 'De Niro and Crystal quarrel during the film.' and Crystal és Crystal the film under all-végig mozi alatt mindvégig quarrels veszekszik. (Cf.8a))

an object-related and a time-related interpretation, and where the verb modifying and related interpretation verb phrase modifying function is an instance (actually the only instance) of the timetransitivizing functions of végig are instances of the object-related interpretation and its In conclusion, we arrive at the classification depicted in (22), where végig has both

(22)verb modifier transitivizer verb phrase modifier

w Preverb or adverb?

them, and here there are really only two plausible candidates: preverb or adverb.8 I contend as displayed in (22). The next task is to clarify the categorial status of végig with respect to Thus far I have argued that végig has two main interpretations with threefunctions,

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interpretation is only analyzable as an adverb, as summarized in (23) in its transitivizing function is only analyzable as a preverb, and végig in its time-related in its verb modifying function is conditionally analyzable as an adverb or a preverb, végig that the choice between these two options depends on the function of végig: whereas végig

- (23) a. végig° [verb modifier] \Rightarrow [Adv végig] (iff the verb has a preverb) ⇒ [Prev végig] (otherwise)
- $v\acute{e}gig^{\circ}[transitivizer] \Rightarrow [Prev v\acute{e}gig]$
- $v\acute{e}gig^{t} \Rightarrow [A_{dv} v\acute{e}gig]$

végig in its verb modifying function is analyzed as an adverb only if a preverb is present; there by expresses something more complex than simple optionality: it states in effect that otherwise (i.e., when no preverb is present) it is analyzed as a preverb. The rule for the verb modifying function of végig in (23a) contains a default and

preverb in a given clause, and if we observe that X can co-occur with item Y that we know freedom in their placement. Another restriction is that preverbs always occur immediately before the verb in neutral associated with at most one preverb. Consequently, if the question is whether item X is a Perhaps the foremost morphosyntactic restriction on preverbs is that a verb may be morphosyntactic restrictions than adverbs are, and this is how we can tell them apart independently to be a preverb, then we may conclude that X is not a preverb in that clause. As separable verbal prefixes, preverbs are subject to different phonological and and adverbs is in order. 10 In brief, preverbs are separable verbal pre-fixes; adverbs are not For those unfamiliar with Hungarian, a word about the difference between preverbs (whence the designation 'preverb'), whereas adverbs generally exhibit more

Not always a preverb

feasible for végig in either of these uses to be always analyzed as a preverb. function or its time-related interpretation must be analyzed as an adverb, I will first show that there are cases in which végig in either its verb modifying i.e., it is not

compatible with the presence of a preverb. The examples in (24) demonstrate that végig in its verb modifying function is

however, that the examples in (20) do not improve with other word orders. somewhat mysterious syntactic difference between mindvégig and the time-related interpretation of végig. Note, In (21a) and (21b) the time-denoting noun phrase has to appear in a postpositional phrase before mindvégig, whereas in (5a) and (6a) it may appear unmodified at the end of the clause. This seems to be due to an admittedly whereas in (5a) and (6a) it may appear unmodified at the end of the clause.

The categories preverb and adverb are used for expediency. I remain agnostic as to whether they are

reducible to other syntactic categories.

There may be speakers for whom *végig* in its verb modifying function is always analyzed as a preverb, in which case the rule in (23a) could be simplified. However, although the use of *végig* as an adverb in its verb modifying function may be somewhat marked for many speakers, it cannot be categorically ruled out.

Preverbs are a favorite topic in the syntactic literature on Hungarian. Kiefer (see 1994: sect. 2), E. Kiss (1994:

sect. 7), and Piñon (1995), to cite only a few works.

11 Neutral clauses in Hungarian are clauses that lack a contrastively focussed constituent (see Kálmán et al.

- (24) a. Tamás végig°/^{#t} át-lapozta a könyv-et. Tamás végig PV_{through}-ran-through the book-ACC 'Tamás ran through (i.e., turned through the pages of) the book.'
- b. A konferencia részvevő-i végig^{o/#t} meg-hallgatt-ák az előadás-t. the conference participants-POSS.PL.3SG *végig* PV-listened-to thelecture-ACC 'The conference participants listened to the lecture from beginning to end.'
- c. Réka végig^{o/#t} el-olvasta a cikk-et.
 Réka végig PV_{away}-read the article-ACC
 'Réka read the article from beginning to end.'

Since each sentence in (24) contains an item that is indisputably a preverb (whether át, meg, or el), we conclude that végig here is not a preverb. Such data show that the first clause of the rule in (23a) is needed.

Although the examples in (24) are acceptable, it must be acknowledged that it is preferable to employ $v\acute{e}gig$ in its verb modifying function as a preverb if possible. In particular, the use of $v\acute{e}gig$ in (24) seems to add no or very little content to the sentences and it is this redundancy that speakers tend to find bothersome upon reflection. Consequently, the following variations on the sentences in (24), in which the original preverb is dropped and $v\acute{e}gig$ appearsas the preverb, are definitely favored over those in (24):

- (25) a. Tamás végig^{o/#t} át-lapozta a könyvet. (Cf. (24a))

 'Tamás ran through (i.e., turned through the pages of) the book.
- A konferencia részvevői végig°-hallgatták az előadást. (Cf.(24b))
 'The conference participants listened to the lecture from beginning to end.'
- c. Réka végig°olvasta a cikket. (Cf. (24c)) 'Réka read the article from beginning to end.'

Further evidence that the categorial status of végig differs in (24) and (25) stems from the observation that végig exhibits greater freedom in placement in the former than it does in the latter. Specifically, végig may also appear after the verb in (24) with no change in meaning, as the following versions of the sentences in (24) demonstrate:

(26) a. Tamás át-lapozta végig°/#t a könyvet. (Cf. (24a))

'Tamás ran through (i.e., turned thruogh the pages of) the book.'

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- A konferencia részvevői meg-hallgatták végig^{o/#t} az előadást. (Cf.(24b))
 'The conference participants listened to the lecture from beginning to end.'
- Réka el-olvasta végig°/#t a cikket. (Cf. (24c)) 'Réka read the article from beginning to end.'

However, this flexibility in placement does not extend to $v\acute{e}gig$ in (25), as the ungrammaticality of the following sentences attests:¹²

- (27) a. *Tamás lapozta végigo'#t a könyv-et. (Cf. (25a))
 Tamás ran-through végig the book-ACC
- b. *A konferencia részvevő-i hallgatt-ák végig° az előadás-t. (Cf. (25b)) the conference course-POSS.3SG-SUP listened-to-3PL végig the lecture-ACC
- c. *Réka olvasta végig° a cikk-et. (Cf. (25c))
 Réka read végig the article-ACC

Thus, the contrast between (26) and (27) lends further support to the claim that $v\acute{e}gig$ is an adverb in (24) and a preverb in (25).

The examples in (28) show that $v\acute{e}gig$ in its time-related interpretation must be analyzable as an adverb, given that it can also co-occur with items that are indisputably preverbs.

- (28) a. A két diák végig^t el-beszélgetett a villamos-on. the two student végig PV_{away}-talked the tram-SUP 'The two students talked on the tram throughout the time in question.'
- b. A kerámikus végig $^{t/\#o}$ el-dolgozgatott a műhely-ben. the ceramist végig PV_{away} -worked-off-and-on the workshop-INE 'The ceramist worked off and on in the workshop throughout the time in question.'
- c. Réka végig^{t/#o} fel-olvasott az ór-án. Réka *végig* PV_{up}-read-aloud the class-SUP 'Réka read aloud throughout the class.'

Since *végig* is an adverb in (28), we expect it to exhibit flexibility in placement, as it in fact does: ¹³

¹² The sentences in (27) are grammatical only if the subject arguments are contrastively focussed. This is because focussed constituents must appear in immediate preverbal position in Hungarian.

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- (29) a. A két diák el-beszélgetett végig $^{t/\#o}$ a villamoson. (Cf. (28a)) 'The two students talked on the tram throughout the time in question.'
- b. A kerámikus el-dolgozgatott végig^t a műhelyben. (Cf. (28b))
 'The ceramist worked off and on in the workshop throughout the time in question.'
- c. Réka fel-olvasott végig^{t/#0} az órán. 'Réka read aloud throughout the class.'

(Cf. (28c))

Since it is clear that $v\acute{e}gig$ has to be analyzed as an adverb when a preverbis present, the issue turns on how it should be analyzed when no other preverb is around. I will now offer two arguments in favor of the claim (stated in (23)) that $v\acute{e}gig$ in its verb modifying function is analyzed as a preverb when no preverb is present, that $v\acute{e}gig$ in its transitivizing function is always analyzed as a preverb, and that $v\acute{e}gig$ in its time-related interpretation is never analyzed as a preverb.

3.2. Stress assignment

For the first argument I will assume the following generalization about stress assignment in neutral clauses: 14

- A preverb forms a domain for stress assignment with the verb that follows it, whereas an adverb forms its own domain for stress assignment.
- The first (syllable of the first) nonclitic element of a domain for stress assignment receives a primary stress.
- Neither preverbs nor adverbs are clitics

It follows from this generalization that if $v\acute{e}gig$ is a preverb, then it is stressed in combination with the verb, whereas if it is an adverb, it is stressed independently of the verb, as schematized in (30), where ' Φ ' denotes the relevant phonological domain for stress assignment.

(30) [_Φ [_{Prev} végig] verb] (one primary stress) [_Φ [_{Adv} végig]] [_Φ verb] (two primary stresses)

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The rules in (23) together with this generalization about stress assignment predict the acceptable and unacceptable stress patterns in (31) for the case of $v\acute{e}gig$ and olvas 'read', depending on how $v\acute{e}gig$ is interpreted.

- (31) a. $[_{\Phi} \text{ v\'egig}^{\circ} \text{ olvas}]$ $[_{\Phi} \text{ v\'egig}^{t}] [_{\Phi} \text{ olvas}]$
- b. $*[_{\Phi} \text{ v\'egig}^{\circ}] [_{\Phi} \text{ olvas}]$ $*[_{\Phi} \text{ v\'egig}^{t} \text{ olvas}]$

That these are indeed the acceptable and unacceptable stress patterns for *végig* plus *olvas* is more obvious if we put them in context, as in (32) and (33), respectively (repeated from (12c) and (14c)).

- (32) a. Réka [_Φ végig°•olvasta] a cikket.
 'Réka read the article from beginning to end.
- b. Réka $[_{\Phi}$ végig $^t]$ $[_{\Phi}$ olvasta] a cikket, amíg Tamás zuhanyozott. 'Réka read the article all the time while Tamás took a shower.'
- (33) a. *Réka [végig°]-[olvasta] a cikket.
- *Réka [Ø végig^t olvasta] a cikket, amíg Tamás zuhanyozott.

The generalization about stress assignment supports the claim, schematicized in (30), that végig in its object-related interpretation is always analyzed as a preverb when no other preverb is present and that végig in its time-related interpretation is always analyzed as an adverb, for otherwise we would expect stress patterns such as those in (31b) to be well-formed, and yet they are not.

Since $v\acute{e}gig$ in (32a) is used in its verb modifying function, let us verify that $v\acute{e}gig$ in its transitivizing function also patterns in this way, taking $v\acute{e}gig$ - $t\acute{a}ncol$ ' $v\acute{e}gig$ -dance' from (1a) as our example:

(34) [_Φ végig° táncol]

*[_Φ végig°] [_Φ táncol]

Finally, the fact that *mindvégig* also forms its own domain for stress assignment lends further credence to the claim that *végig* in its time-related interpretation is always an adverb and never a preverb:

(35) $[_{\Phi} \text{ mindvégig}] [_{\Phi} \text{ verb}]$ $*[_{\Phi} \text{ mindvégig } \text{ verb}]$

An anonymous reviewer finds the examples in (29) unacceptable, but not speakers seem to agree. In such examples it is important to pronounce both végig and the postpositional phrase that follows it as independent phonological units so that végig is not construed as a modifier of the postpositional phrase.

14 Although the exact name of the domain for stress assignment is not crucial in what follows. I take it to be the

Although the exact name of the domain for stress assignment is not crucial in what follows, I take it to be the clitic group, based on my reading of Vogel (1989). Oddly enough, Vogel herself does not think that a preverb forms a clitic group with the verb that follows it, claiming instead that the preverb and verb belong to an intonational phrase (pp. 339, 349). I believe that Vogel is mistaken about not having the preverb and the verb constitute a phonological unit, especially since she makes the clitic group available anyway.

3.3. Auxiliary placement

The second argument concerns the relative placement of auxiliary verbs such as *fog* 'will', *akar* 'want', and other syntactically similar auxiliaries. For this argument I will presuppose the following syntactic generalization about the syntax of neutral clauses (see Kálmán et al. 1989).

- If an auxiliary occurs with a verb that has a preverb, then the auxiliary appears between the preverb and the (infinitival form of the) verb, in that order.
- If an auxiliary occurs with a verb that does not have a preverb, then the auxiliary follows the (infinitival form of the) verb.

If this generalization is applied to *végig*, the auxiliary verb *fog* 'will', and a main verb, the following pattern is expected, depending on whether vé'gig is analyzed as a preverb or an adverb:

(36) [Prev végig] fog verb [Adv végig] verb fog

The rules in (23) together with this syntactic generalization lead us to predict the acceptable and unacceptable patterns in (37) for *végig* and *olvas* 'read', which is what we in fact observe.

- (37) a. végig° fog verb végig^t verb fog
- b. *végig° verb fog *végig^t fog verb

Again, this prediction is easiest to evaluate in context (cf. (32) and (33)):

- (38) a. Réka két óra alatt végig°/**t fogja olvas-ni a cikk-et. Réka two hour under *végig* will read-INF the article-ACC 'Réka will read the article from beginning to end in two hours.'
- b. Réka két órá-n át végig^{t/#0} olvas-ni fogja a cikk-et. Réka two hour-SUP through *végig* read-INF will the article-ACC 'Réka will read the article for two hours.'
- (39) a. #Réka két óra alatt végig° olvasni fogja a cikket.
- b. #Réka két órán át végig^t fogja olvasni a cikket.

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The generalization about auxiliary placement offers additional support of the rules in (23), namely, that $v\acute{e}gig$ in its object-related interpretation is analyzed as a preverb when no other preverb is present and that $v\acute{e}gig$ in its time-related interpretation is always analyzed as an adverb, for otherwise we would expect the patterns in (37b) to be acceptable, and yet they are not.

Once again, we verify that $v\acute{e}gig$ in its transitivizing function is also a preverb, adapting (1a) for the purpose:

- (40) a. Réka végig° fogja táncol-ni az éjszaká-t. Réka *végig* will dance-INF the night-ACC 'Réka will dance throughout the night.'
- b. *Réka végig° táncol-ni fogja az éjszaká-t.
 Réka νégig dance-INF will the night-ACC

As a final point, mindvégig patterns syntactically just like végig in its time-related interpretation (cf. (35)), which confirms that the latter is indeed an adverb:

(41) mindvégig verb fog *mindvégig fog verb

4. Interaction with aspect

I have argued that $v\acute{e}g\acute{t}g$ has two main interpretations with three functions and is a preverb or adverb according to the rules in (23). But this still leaves a good deal unsaid about $v\acute{e}g\acute{t}g$. For example, nothing said so far would rule out the possibility of $v\acute{e}g\acute{t}g$ in its time-related interpretation co-occurring with $v\acute{e}g\acute{t}g$ in its object-related interpretation. Certainly there would be nothing syntactically problematic about the following type of string:

(42) [Adv végigt] [Prev végigo] verb

Yet such strings do not occur—in fact, they are semantically anomalous. The reason for this anomaly is that the two interpretations of $v\acute{e}gig$ impose contradictory aspectual requirements, as a look at how $v\acute{e}gig$ interacts with Vendler's (1967) four aspectual classes will make clear.

4.1. States

States are compatible with the time-related interpretation of végig but not with its object-related interpretation. More precisely, the time-related interpretation of végig but not its object-related interpretation may apply to states:

- (43) a. Tamás végig^{t/#o} szerette Réká-t.
 Tamás végig loved Réka-ACC
 'Tamás loved Réka throughout the time in question.'
- b. A diákok végig^{t/#o} ott maradt-ak a buli-n. the students *végig* there stayed-3PL the party-SUP 'The students stayed at the party throughout the time in question.'
- c. Réka végig^{t/#o} tudta a helyes válasz-t.
 Réka végig knew the correct answer-ACC
 'Réka knew the correct answer throughout the time in question.

This is confirmed by the substitutability of *mindvégig* for *végig* in (43) without inducing a shift in meaning and the compatibility of *végig* with a durative adverbial but not with a time-span adverbial, as demonstrated for (43a) in (44).¹⁵

- (44) a. Tamás mindvégig szerette Rékát.
 'Tamás loved Réka throughout the time in question.
- b. Tamás húsz év-en át végig^{t/#o} szerette Réká-t. Tamás twenty year-SUP through *végig* loved Réka-ACC 'Tamás loved Réka for twenty years.'
- c. #Tamás húsz év-en alatt végig szerette Réká-t. Tamás twenty year-SUP under *végig* loved Réka-ACC

Activities pattern like states in being compatible with the time-related interpretation of $v\acute{e}gig$ but incompatible with its object-related interpretation. Again, this means that the time-related interpretation of $v\acute{e}gig$ but not its object-related interpretation may apply to activities:

(45) a. Réka végig^{t/#o} level-et írt. Réka végig letter-ACC wrote 'Réka wrote letters throughout the time in question.'

Durative and time-span adverbials were tacitly introduced in (38) and (39). In Hungarian, temporal *di*-phrases are durative adverbials, whereas temporal *alati*-phrases are time-span adverbials. In general, durative adverbials are compatible with states and activities and incompatible with accomplishments and achievements, whereas time-span adverbials exhibit the opposite pattern.

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- Tamás végig^{t/#o} dolgozott a könyvtár-ban.
 Tamás végig worked the library-INE
 'Tamás worked in the library throughout the time in question.'
- c. A turisták végig^{t/#o} város-t nézt-ek.
 the tourists végig town-ACC looked-at-3PL
 'The tourists did sightseeing throughout the time in question.'

Just as with states, we can explicitly verify this pattern by substituting *mindvégig* for *végig* and checking for compatibility with durative and time-span adverbials, as shown for (45a) in (46).

- (46) a. Réka mindvégig levelet írt.
 'Réka wrote letters throughout the time in question.'
- Réka két órán át végig^{t/#o} levelet írt.
 'Réka wrote letters for two hours.'
- c. #Réka két óra alatt végig level-et írt. Réka two hour under *végig* letter-ACC wrote

.3. Accomplishments

In contrast to states and activities, accomplishments are compatible with the object-but not the time-related interpretation of $\nu e gig$. This effect is clearest if we combine $\nu e gig$ with a preverb-verb combination that denotes an accomplishment (see (24) for similar examples):¹⁶

- (47) a. Tamás végig^{o/#t} ki-cserélte a körték-et. Tamás *végig* PV_{our}-changed the light-bulbs-ACC 'Tamás changed all of the light bulbs.'
- b. A diákok végig^{o/#t} meg-beszélt-ék a feladat-ot. the students *végig* PV-discussed-3PL the assignment-ACC 'The students discussed the assignment from beginning to end.'
- c. Réka végig^{o/#t} ki-ejtette a hosszú finn szó-t. Réka *végig* PV_{our}-pronounced the long Finnish word-ACC 'Réka pronounced the long Finnish word from beginning to end.'

It can be shown that the preverb-verb combinations ki-cserél 'change', meg-beszél 'discuss', and ki-ejt 'pronounce' in (47) are accomplishments: for example, they are compatible with time-span and not with durative adverbials.

If only the object-related interpretation of $v\acute{e}gig$ is available in (47), then we should not be able to reproduce the pattern exemplified in (44) and (46) for the time-related interpretation of $v\acute{e}gig$. Indeed, as demonstrated for (47a) in (48), $mindv\acute{e}gig$ cannot be substituted for $v\acute{e}gig$ in (47) and time-span but not durative adverbials are acceptable.

- (48) a. #Tamás mindvégig ki-cserélte a körték-et.

 Tamás all-*végig* PV_{out}-changed the light-bulbs-ACC
- b. #Tamás két órá-n át végig ki-cserélte a körték-et.
 Tamás two hour-SUP through νégig PV_{out}-changed the light-bulbs-ACC
- c. Tamás két óra alatt végig^{o/#t} ki-cserélte a körték-et. Tamás two hour under végig PV_{our}-changed the light-bulbs-ACC 'Tamás changed all of the light bulbs.'

Note that the transitivizing function of végig diverges from its verb modifying function with respect to compatibility with time-span adverbials. Specifically, if végig transitivizes a verb, then the resulting preverb-verb combination cannot be modified by a time-span adverbial, not to mention a durative adverbial, as shown for (1a) in (49).

- (49) a. #Réka hét óra alatt végig-táncolta az éjszaká-t.

 Réka seven hour under *végig*-danced the night-ACC
- b. #Réka hét órá-n át végig-táncolta az éjszaká-t. Réka seven hour-SUP through végig-danced the night-ACC

The unacceptability of (49a) is puzzling at first, for it suggests that if *végig* transitivizes a verb, then the result in not an accomplishment, contrary to what we saw for *végig* in its verb modifying function in (48c). However, it should be emphasized that the test for compatibility with time-span adverbials is not all-revealing: although compatibility with time-span adverbials indicates accomplishment (or achievement) status, not all accomplishments are modifiable by a time-span adverbial. In particular, the preverb-verb combinations in (1)-(4) may be accomplishments despite their incompatibility with time-span adverbials.

I claim that the reason why examples like (49a) are unacceptable is that the accusative case marked object already functions as a temporal adverbial measuring the duration of the event and that two such adverbials seem to be prohibited. Evidence that az éjszakát in (49a) does indeed function as a temporal measure adverbial is provided by the fact that it can be replaced by an explicit time-denoting noun phrase:

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(50) Réka végig•táncolta az-t a hét órá-t. Réka végig-danced that-ACC the seven hour-ACC 'Réka danced throughout those seven hours.'

Thus, when *végig* transitivizes a verb, as in (1)-(4), the resulting preverb-verb combination are accomplishments, and the fact that they are incompatible with time-span adverbials is a consequence of the accusative case marked objects acting as temporal measure adverbials for events, where I assume that there is a prohibition against two such temporal measure adverbials cooccurring in a clause.

A final remark is that if *végig* is used in its verb modifying function as a preverb, the verb that *végig* modifies need not denote an accomplishment but the result of the modification does denote an accomplishment:

(51) Réka két óra alatt végig^ó•olvasta a cikk-et. (Cf. (12c), (38a)) Réka two hour under *végig*-read the article-ACC 'Réka read the article from beginning to end in two hours.'

If olvas 'read' in (51) denoted an activity, then given the discussion in the previous section we would have to explain why it is nevertheless compatible with the object-related interpretation of $v\acute{e}gig$. The simplest assumption, and the one that I will make, is that olvas in (51) is aspectually underspecified between an activity and an accomplishment and that the addition of $v\acute{e}gig$ specifies an accomplishment interpretation.¹⁷

4.4. Achievements

Achievements are incompatible with the time-related interpretation of vegig, and they appear to yield mixed results with its object-related interpretation:

- (52) a. 'Réka végig^{o/#t} meg-nyerte a futóverseny-t. Réka végig PV-won the foot-race-ACC 'Réka won the race from beginning to end.'
- b. #Réka végig fel-ismerte Tamás-t.
 Réka végig PV_{up}-recognized Tamás-ACC

The example in (52a) is acceptable if interpreted to mean that the race was made up of smaller races all of which Réka won. It is unacceptable if understood to mean that there was only a single race and hence only a single winning by Réka. The sentence in (52b), in

[&]quot;Another way of putting this point would be to say that végig in its verb modifying function as a preverb perfectivizes the verb that it applies to. I avoid talk of 'perfectivization' because it invites misleading comparisons with aspect in the Slavic languages, but the intuition behind 'specifying an accomplishment interpretation' could be sloganized in this way.

contrast, is unacceptable because there was only a single recognizing of Tamás by Réka. Whereas it is plausible to win a race in stages, it is not plausible to recognize someone in stages. What the object-related interpretation of *végig* requires, in other words, is that the achievement denote a series of instantaneous events.

If the objects in (52) are pluralized, then we obtain sentences that are unquestionably acceptable:

- (53) a. Réka végig°/#t meg-nyerte a futóversenyek-et.

 Réka végig PV-won the foot-races-ACC

 'Réka won the races from beginning to end.'
- b. Réka végig $^{\circ/\#t}$ fel-ismerte a diákok-at. Réka végig $^{\rm PV}_{\rm up}$ -recognized the students-ACC 'Réka recognized all of the students.'

The effect of the plural object in (53) is to make it clear that a series of instantaneous events is at issue, and it is a series of events that the semantics of *végig* in its object-related interpretation demands.

Analyzing végig

The analysis of $v\acute{e}gig$ that I will present presupposes a domain of physical objects (x, y, z,...), one of events (e, e', e'',...), and one of times (t, t', t'',...), together with a proper part relation (\subset) on all three, a temporal precedence relation (\prec) on events and times, and a temporal trace function (τ) from events to times (intuitively, τ maps events to their 'run times').

The notions of part, overlap, sum, and atom are defined in terms of the proper part relation and identity as in (54), where a, b, c,... are unsorted variables for physical objects, events, or times.

- (54) a. $a \subseteq b =_{def} a \subset b \lor a = b$ (a is part of b)
- b. $a \cdot b =_{def} \exists c [c \subseteq a \land c \subseteq b]$ (a and b overlap)
- c. $\sigma(P) =_{def} \iota a[\forall b[b \circ a \leftrightarrow \exists c[P(c) \land c \circ b]]]$ (the sum of objects of type P)
- d. Atom(a) = $_{def} \exists b[b \subset a]$ (a is an atom)

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The relations of *initial proper part* and *initial part* are defined in (55) for events and times in terms of proper part, temporal precedence, and identity, where v, v', v'',... are unsorted variables for events or times.

- (55) a. $V \subset_{ini} V' =_{def} V \subset V' \land \neg \exists V'' [V'' \subseteq V' \land V' \land V'' \prec V]$ (V is an initial proper part of V')
- b. $V \subseteq_{ini} V' =_{def} V \subset_{ini} V' \lor V = V'$ (V is an initial part of V')

If an event or time has an initial proper part, then it is temporally extended:

(56) Extend(v) = $_{def} \exists v' [v' \subset_{ini} v]$ (v is temporally extended)

For example, whereas intervals consisting of at least two instants are temporally extended, instants themselves are not. If an event or time is not temporally extended, then it is instantaneous.

A number of axioms regulate the behavior of the proper part and temporal precedence relations. ¹⁸ Beginning with the proper part relation, if one object is a proper part of a second, then the second is not a proper part of the first (asymmetry, (57a)); if one object is a proper part of a second which is in turn a proper part of a third, then the first object is a proper part of the third (transitivity, (57b)); if one object is a proper part of another, then there is at least one other proper part of the latter that does not overlap with the former (witness, (57c)); and any nonempty set of objects has exactly one sum (uniqueness of sums; (57d)).

- (57) a. $a \subset b \to \neg (b \subset a)$ (asymmetry of proper part)
- b. $a \subset b \land b \subset c \rightarrow a \subset c$ (transitivity of proper part)
- c. $a \subset b \to \exists c[c \subset b \land \neg(c \circ a)]$ (witness for proper part)
- .. $\exists a[P(a)] \rightarrow \exists a[\forall b[b \circ a \leftrightarrow \exists c[P(c) \land c \circ b]]]$ (uniqueness of sums)

The axioms in (57)-(61) may be thought of as the 'bare minimum' for an ontology with the proper part and temporal precedence relations. Further axioms are imaginable (e.g.concerning the atomicity or density of times), but for present purposes those presented here suffice.

The temporal precedence relation is also both asymmetric and transitive:

- (58) a. $\lor \lor \lor \lor \to \neg(\lor' \lor \lor)$ (asymmetry of temporal precedence)
- b. ∨ ∠ ∨' ∧ ∨' → ∨ ∠ ∨"
 (transitivity of temporal precedence)

The connection between the overlap relation and the temporal precedencerelation is expressed in (59): overlap entails the absence of temporal precedence.

(59)
$$\vee \circ \vee' \rightarrow \neg (\vee \prec \vee')$$
 (overlap implies the lack of temporal precedence)

Next, the domain of times is linear, i.e., there are no parallel times:

(60)
$$t \prec t' \lor t' \prec t \lor t \circ t'$$
 (no parallel times)

A final axiom constrains the behavior of the temporal trace function by stating that if one event is a proper part of a second, then the temporal trace of the first is a proper part of the temporal trace of the second:

(61)
$$e \subset e' \to \tau(e) \subset \tau(e')$$
 (overlap among events implies overlap of their temporal traces)

I will adopt an event semantics in which verbs are generally analyzed as relations between events and physical objects or events (Krifka 1992; Parsons 1990), where 'event' is broadly understood as covering processes and states as well (i.e., in the sense of eventuality). For simplicity, I do not make explicit use of thematic relations, as they are not directly relevant for the semantics of végig. Finally, I disregard tense and analyze sentences as event predicates, leaving implicit the existential binding of the event argument as a last step of the derivations.

5.1. Aspectual matters

In order to account for the interaction of $v\acute{e}gig$ with aspect, I have to say something about the analysis of aspect. Since $v\acute{e}gig$ treats states and activities alike, it suffices for present purposes to draw a three-way distinction between states/activities, accomplishments, and achievements. For reasons of space, I will restrict myself to those aspectual matters that are crucial for the analysis of $v\acute{e}gig$, and these are: the aspectual classes (states/activities, accomplishments, and achievements) on the one hand, and

durative and time-span adverbials on the other. In what follows, the aspectual classes will be defined assecond-order properties of the meanings of event and time predicates.

States/activities, construed as event predicates, satisfy the *divisibility* condition in (62), which asserts that if an event e is of type P, then e is extended and all of its extended initial parts are also of type P, where it is guaranteed that there is at least one event in the extension of P that has an extended initial proper part. Intuitively, this says that a state/activity of type P— provided that it has an extended initial proper part—could end sooner than it does and still be of type P. ¹⁹

(62)
$$\mathsf{Div}(\mathsf{P}) =_{\mathsf{def}} \forall \mathsf{v}[\mathsf{P}(\mathsf{v}) \to \mathsf{Extend}(\mathsf{v}) \land \forall \mathsf{v}'[\mathsf{v}' \subseteq_{\mathsf{ini}} \mathsf{v} \land \mathsf{Extend}(\mathsf{v}') \to \mathsf{P}(\mathsf{v}')]] \land \exists \mathsf{v}'\exists \mathsf{v}''[\mathsf{P}(\mathsf{v}') \land \mathsf{v}'' \subseteq_{\mathsf{ini}} \mathsf{v}' \land \mathsf{Extend}(\mathsf{v}'')]$$
(P is divisible)

An example of a state/activity is the event type Reka-work: if an event is of type Reka-work, then it is made up of initial subevents that are also of type Reka-work. Accomplishments and achievements, also taken to be event predicates, both satisfy the wholeness condition in (63), which asserts that if an event e is of type P, then e has no initial proper part e' that is of type P, where it is ensured that there is an least one event that satisfies P. More intuitively, an accomplishment or achievement of type P could not end sooner than it does and still be of type P.

(63) Whole(P) =_{def}
$$\forall v[P(v) \rightarrow \neg \exists v'[v' \subset_{ini} v \land P(v')]] \land \exists v'[P(v')]$$

(P is a whole)

Accomplishments are distinguished from achievements in that they satisfy the additional condition that they denote extended events. This condition is known as strict wholeness:

(64) Strict-whole(P) =_{def} Whole(P)
$$\land \forall v[P(v) \rightarrow \mathsf{Extend}(v)]$$

(P is a strict whole)

An example of an accomplishment is the event type Réka-read-the-article-completely: if an event is of this type, then it has no initial proper subevent in which Réka read the article completely, although it does have initial proper subevents (because events of reading take time). Note that achievements do not satisfy strict wholeness, because they may have instantaneous events in their denotation. For example, the event type Reka-win-the-race is a whole but not a strict whole, precisely because an event in which Réka wins the race in a single stage is instantaneous, but one in which she wins the race in more than

¹⁹ The quantification in (62) is restricted to extended initial parts because activities (unlike states) are generally not realized at instants.

one stage is extended, having initial proper parts (recall (52a) and(53a)).20

It can be shown that if an event type P is divisible, then it is not a whole (or equivalently, if P is a whole, then it is not divisible).

(65) Fact. Div(P)
$$\rightarrow \neg$$
Whole(P)

This fact allows for an event type to be neither divisible nor a whole. Intuitively, this is the case with event types that are aspectually underspecified between a state/activity and an accomplishment interpretation. Let us call such predicates *mixed*:

(66)
$$Mixed(P) =_{def} \neg (Div(P) \lor Whole(P))$$

(P is mixed)

An example of a mixed event type might be Reka-read-the-article if it is taken to represent the aspectually underspecified English sentence *Réka read the article*:

(67) Réka read the article for an hour/in an hour.

The analysis of durative adverbials (*át*-phrases in Hungarian) is given in (68), where C is a constant for a measure predicate of times. The idea is that adurative adverbial introduces a time t of C-duration that is the temporal trace of an event e of type P and asserts that for any extended initial part tof t there is an initial subevent e' of e of type P that occurs at t', where it is presupposed that t has at least one extended initial proper part.

(68) C-időn át 'for C-time-SUP'
$$\Rightarrow$$
 $\lambda P \lambda e[\exists t[C(t) \wedge \tau(e) = t \wedge P(e) \wedge \forall t'[t' \subseteq_{ini} t \wedge \mathsf{Extend}(t')]]] =_{\mathsf{def}} \mathsf{For-C-time}$ $\exists t'[t' \subset_{ini} t \wedge \mathsf{Extend}(t')]]] =_{\mathsf{def}} \mathsf{For-C-time}$

An instantiation of C in (68) is provided by the analysis of $k\acute{e}t$ $\acute{o}r\acute{a}n$ $\acute{a}t$ 'for two hours':

(69) két órán át 'for two hours' \Rightarrow $\lambda P \lambda e[\exists t[2-hours(t) \land \tau(e) = t \land P(e) \land \forall t'[t' \subseteq_{ini} t \land Extend(t')]] \rightarrow \exists e'[e' \subseteq_{ini} e \land \tau(e') = t' \land P(e')]] \land \exists t'[t' \subset_{ini} t \land Extend(t')]]]$

The format for time-span adverbials is given in (70). This analysis differs from that of durative adverbials in that it prohibits t from having an initial proper part t' that is the temporal trace of an initial proper subevent e' of e of type P:

(70) C-idő alatt 'in C-time'
$$\Rightarrow$$

$$\lambda P \lambda e[\exists t[C(t) \wedge \tau(e) = t \wedge P(e) \wedge \\
\neg \exists t' \exists e'[t' \subset_{ini} t \wedge e' \subset_{ini} e \wedge t(e') = t' \wedge P(e')]]]$$

$$=_{def} \text{In-C-time}$$

This format is exemplified by the analysis of két óra alatt 'in two hours':

két óra alatt 'in two hours'
$$\Rightarrow$$

 $\lambda P \lambda e [\exists t[2-hours(t) \land \tau(e) = t \land P(e) \land \\ \neg \exists t' \exists e'[t' \subset_{ini} t \land e' \subset_{ini} e \land t(e') = t' \land P(e')]]]$

(71)

Several elementary results follow. If a durative adverbial applies to an event type P, then P is not a whole (i.e., not an accomplishment or an achievement). If, in addition, the predicate C representing the measure adverbial is a whole, then the result of applying the durative adverbial to P is a strict whole (i.e., an accomplishment). On the other hand, if a time-span adverbial applies to an event type P, then P is not divisible (i.e., not a state/activity). Moreover, if the predicate C is also a whole, then the result of applying the time-span adverbial to P is a whole. These four facts are formalized in (72).²¹

(72) a. Fact.
$$\exists e [For-C-time(e, P)] \rightarrow \neg Whole(P)$$

Fact. $\exists e[For-C-time(e, P)] \land Whole(C) \rightarrow Strict-whole(\lambdae'[For-C-time(e', P)]$

0

Since strict wholeness implies wholeness, accomplishments are types of achievements, and not vice versa, as is often assumed. What the present analysis highlights is that achievements may denote both instantaneous events and series of instantaneous events, and it is the fact that the latter are extended that makes achievements a superset of accomplishments, whereas accomplishments form a subset of achievements because they always denote extended events.

I give the proofs of (72a) and (72b) for the sake of illustration.

⁽⁷²a): Assume an e and a P such that For-C-time holds of e and P for a choice of C and (for the reductio) that P is a whole. By (68) we infer e has at least one initial proper subevent e' of type P. But if P is a whole, then by (63) e lacks an initial proper subevent e' of type P, which contradicts the previous conclusion. Consequently, P is not a whole.

⁽⁷²b): Assume an e and a P such that For-C-time holds of e and P for a choice of C that is a whole. By (68) the result of applying For-C-time to P is λe'[For-C-time(e',P)], which is a predicate of events of type P with duration C. Observe that any event e of this type is extended and yet at the same time lacks an initial proper subevent that is both of type P and of duration C (by the wholeness of C and (61)). But then λe'[For-C-time(e',P)] satisfies the definition of a strict whole as given in (64).

c. Fact. $\exists e[ln-C-time(e, P)] \rightarrow \neg Div(P)$

d. Fact. $\exists e[ln-C-time(e, P)] \land Whole(C) \rightarrow Whole(\lambda e'[ln-C-time(e', P)]$

The time-related interpretation

P, has a contextually salient time t as its temporal trace, and for any extended initial part adverbial (see (68)) but with the difference that the time in question is not existentially introduced but has to be retrieved from the context of use.²² have at least one extended initial proper part. In other words, végig^t is basically a durative of t there is an initial subevent e' of e of type P that occurs at t', where it is required that is that végig^t denotes a relation between events e and event types P such that e is of type Since the time-related interpretation of végig is simpler, I will begin with it. The idea

VP, and I take this to be the appropriate argument for végig^t, i.e., végig^t is a VP-modifier: already combined with its arguments. The smallest such constituent is a (subject-internal) corresponding syntactic argument of végigt should be a constituent in which the verb has Since végig^t is an adverb and applies to one-place event predicates, the

(74)
$$[v_P [adv v\acute{e}gig^t] [v_P \alpha]]$$

the verb — it is not able to change argument structure. to a preverb, as I argued above. All that végigt 'sees', so to speak, is the event argument of the verb. This is consistent with the data and the status of végig^t as an adverb, as opposed It follows from (73) and (74) that végig^t does not affect the argument structure of

example, based on (6a): existentially quantifying over t in (73)? To see why t should be free, consider the following we might ask why t is not existentially bound—in other words, what would be wrong with semantics of végig^t presupposes a contextually salient time t that the event 'fills'. However, The status of the free variable t in (73) calls for comment. As already mentioned, the

(75)Tamás végig 'Tamás worked throughout the time in question.' Tamás végigt dolgozott. worked

Recall that since mindvégig is synonymous with végig^{*}, the analysis in (73) applies to mindvégig as well.

Assuming that the unmodified VP in (75) is analyzed as the event predicate in (76a)

then the result of applying $v\acute{e}gig^{t}$ to this VP is shown in (76b).

- (76) a. [vp Tamás dolgozik] $\Rightarrow \lambda e[Work(e, Tamas)]$
- ь. $t' \land Work(e', Tamas)]] \land \exists t'[t' \subset_{ini} t \land Extend(t')]]]$ $t \wedge \forall t'[t' \subseteq_{ini} t \wedge \mathsf{Extend}(t') \to \exists e'[e' \subseteq_{ini} e \wedge \tau(e') =$ $\lambda e[Vegig-time(e, \lambda e' [Work(e', Tamas)], t)] = \lambda e[Work(e, Tamas) \land \tau(e) = \lambda e[Vegig-time(e, \lambda e' [Work(e', Tamas)], t)] = \lambda e[Work(e', Tamas)] \land \tau(e) = \lambda e[Vegig-time(e', \lambda e' [Work(e', Tamas)], t)] = \lambda e[Work(e', Tamas)] \land \tau(e') = \lambda e[Work(e',$ $[v_P \text{ v\'egig}^t [v_P \text{ Tam\'as dolgozik}]] \Rightarrow$

quantified over in (76b), it would not be feasible to identity t with Yesterday. that Tamás worked throughout yesterday, as represented in (78). If t were existentially value of t in this case is the interval delimited by yesterday, and the answer there by asserts naturally identified with the time denoted by tegnap 'yesterday' in the question, i.e., the following question-answer pair, the time presupposed by végig^t in the answer is most may be yesterday or last week or some other contextually salient time. For example, in the he worked. Instead, (75) presupposes that the time t is retrievable from context of use—it he worked at all, then there is such a time, namely, the temporal trace of the event in which contextually salient time t. As this analysis makes clear, (75) does not (existentially) assert that there is a time during which Tamás worked, for that would be a rather weak claim: if The formula in (76b) is a predicate of events in which Tamás works throughout a

- (77) a. Mit what did 'What did Tamás do yesterday?' csinált Tamás tegnap? Tamás yesterday
- ġ. vegig worked Végigt dolgozott. 'He worked the whole time (yesterday).
- (78) $\exists e'[e' \subseteq_{ini} e \land \tau(e') = t' \land Work(e',Tamas)]] \land \exists t'[t' \subseteq_{ini} Yesterday \land t']$ $\lambda e[\mathsf{Work}(e,\mathsf{Tamas}) \land \tau(e) = \mathsf{Yesterday} \land \forall t'[t' \subseteq_{\mathsf{ini}} \mathsf{Yesterday} \land \mathsf{Extend}(t') \to \mathsf{Ve}(\mathsf{Vert}(e))$ Extend(t')]]] (77b) $\Rightarrow \lambda e[Vegig-time(e, \lambda e'[Work(e', Tamas)], Yesterday)] =$

salient time t whose identity must be determined in order for an assertion to be made. purposes to simply emphasize that the semantics of végigt presupposes a contextually elaborate semantic framework than I have assumed here. However, it suffices for present An explication of how t is assigned a value in context would require a more

following variation on (75): Observe that the value of t may also be determined sentence-internally, as in the

²²⁸

(79) Tamás tegnap végig^t dolgozott.

Tamás yesterday *végig* worked

'Tamás worked throughout the day yesterday.'

Here, just like in (77b), the value of t is the interval delimited by yesterday. It is easy to see that $\nu e g i g^{\dagger}$, like durative adverbials (see (72a)), implies that the event type that it applies to is not a whole:

(80) $Fact. \exists e[Vegig-time(e, P, t)] \rightarrow \neg Whole(P)$

Since states/activities are analyzed as divisible event types, modification of them by $\nu e g i g^{\dagger}$ is unproblematic. However, since achievements are analyzed as wholes and accomplishments as strict wholes, it follows that $\nu e g i g^{\dagger}$ is incompatible with both accomplishments and achievements.

An example of $v\acute{e}gig^{t}$ modifying an activity was already given in (76), and so it suffices here to point out that the predicate $\lambda e[Work(e,Tamas)]$ is not a whole and is in fact divisible. For an accomplishment consider (47a), the unmodified clause of which is analyzed as the event predicate in (81a) and is characterized as a strict whole in (81b). This event type is a strict whole because any event in which Tamás changes the light bulbs is both extended and lacks an initial proper subevent in which he changes those same light bulbs. Since $v\acute{e}gig^{t}$ requires that the event type it applies to not be a whole, it is evidently incompatible with this event type.

- (81) a. [$_{VP}$ Tamás ki-cserélte a körtéket] 'Tamás changed the light bulbs' \Rightarrow λ e[Change(e, Tamas, The-light-bulbs)]
- b. Strict-whole(λe [Change(e, Tamas, The-light-bulbs)])

Parallel to (72b) for durative adverbials, the result of applying $v\acute{e}gig^{\tau}$ to an event type P for a value of t is a strict whole:

(82) Fact. $\exists e[Vegig-time(e, P, t)] \rightarrow Strict-whole(\lambda e'[Vegig-time(e', P, t)])$

Concerning the proof of (82), note that if an event e is of type λ e'[Vegig-time(e', P, t)], then e has t as its contextually salient temporal trace and no initial proper subevent of e also has t as its temporal trace.

As a final example, we apply this fact to the sentence in (5a), whose analysis is given in (83a) and whose characterization as a strict whole is stated in (83b).

(83) a. Réka végig táncolt az éjszaka
'Réka danced throughout the night' ⇒
λe[Vegig-time(e, λe'[Dance(e', Reka)], The-night)] =
λe[Dance(e, Reka) ∧ τ(e) = The-night ∧∀t'[t' ⊆_{ini} The-night ∧ Extend(t') →
∃e'[e' ⊆_{ini} e ∧ τ(e') = t' ∧ Dance(e', Reka)]] ∧
∃t'[t' ⊂_{ini} The-night ∧ Extend(t')]]]
h Strict whole(λef) enterior time(e, λe'(Dance(e', Beken)).

Strict-whole(λe[Vegig-time(e, λe'[Dance(e', Reka)], The-night)])

5.3. The object-related interpretation

Recall that the object-related interpretation of *végig* has both a verb modifying and a transitivizing function (see (22)) and that the verb modifying function is not even realized uniformly syntactically (see (23a)). While there is enough in common between these two functions of *végig*° to justify speaking of the object-related interpretation of *végig*, there is also enough difference in detail between them to justify treating the two cases separately. In what follows, I will employ the subscripts '1' (*végig*°₁) and '2' (*végig*°₂) to designate the verb modifying and transitivizing functions of *végig*°, respectively.

5.3.1. Végig as a verb modifier. Since there is no evidence that végig° in its verb modifying function differs in meaning according to whether it is a preverb or an adverb, I give it a single analysis, presented in (84), where végig°₁ istreated as a modifier of threeplace relations between events, physical objects, and physical objects or events (where u, u', ... are variables for physical objects or events).

(84) $[\Pr_{\text{PrewAdv.}} \text{v\'egig\'e}_i] \Rightarrow \lambda R \lambda u \lambda x \lambda e [R(e, x, u) \land \forall u'[u' \subseteq u \land \neg Atom(u') \rightarrow \exists e'[e' \subseteq e \land R(e', x, u')]] \land \forall e'' \forall e''[e' \subseteq e \land e'' \subseteq e \land \neg (e' = e'') \rightarrow \neg \exists u'[u' \subseteq u \land R(e', x, u') \land R(e', x, u')]] \land \\ \exists e'\exists u'[e' \subset_{\text{ini}} e \land u' \subset u \land R(e', x, u')]] = Vegig-object-1$

Syntactically, $\nu \acute{e}gig^\circ_l$ is an adverb only if the verb it modifies lacks a preverb; otherwise it is a preverb (see (23a)). Technically, I implement this by saying that $\nu \acute{e}gig^\circ_l$ is an adverb only if V branches; otherwise (i.e., if V does not branch) it is a preverb, as in (85a). ²³ Furthermore, $\nu \acute{e}gig^\circ_l$, whether anadverb or a preverb, requires its argument u to be case-linked to nominative, accusative, or superessive, as shown in (85b).

- (85) a. [_V [_{Adv} végig°₁] [_V α]] iff α branches; [_V [_{Prev} végig°₁] [_V α]] otherwise
- b. végigo₁; λυ[NOM v ACC v SUP]

Thus végig°₁ as an adverb contrasts with végig^c in that the former modifies a V (i.e., a verb), whereas the latter, a VP (i.e., a clause). I see no choice but to treat végig°₁ as semantically uniform despite its syntactic variability, and yet this entails that végig°₁ must have direct access to the verb even as an adverb.

Let us consider the formula in (84) in more detail. The first line asserts that the relation R holds of an event e, a physical object x, and a physical object (or event) u. The second line states that every nonatomic part of u participates in a subevent e' of e of type R. The third line prohibits the same subpart of u from participating in two distinct subevents of e. This has the effect of excluding divisible event types from the domain of végig°1 (see(86a)). Finally, the fourth line guarantees that R also holds of an initial proper part e' of e, x, and a proper part u' of u. This rules out the possibility that e is an instantaneous event (see (86b)). Consequently, végig°1 does not modify achievements that denote instantaneous events (e.g. (52b)).

Given this semantics, it can be shown that if $v\acute{e}gig^{\circ}_{1}$ applies to a relation R, then R is not divisible with respect to its event argument, and that the result of modifying a verb by $v\acute{e}gig^{\circ}_{1}$ is an event predicate that is a strict whole. Notice that $v\acute{e}gig^{\circ}_{1}$ is like a time-span adverbial in these respects (see (72c) and (72d)). More informally, $v\acute{e}gig^{\circ}_{1}$ does not apply to states/activities and the result of modifying a verb by $v\acute{e}gig^{\circ}_{1}$ is an accomplishment.

- (86) a. Fact. $\exists e[Vegig-object-1(e, x, u, R)] \rightarrow \neg Div(\lambda e'[R(e', x, u)])$
- Fact. ∃e[Vegig-object-1(e, x, u, R)] →
 Strict-whole(λe'[Vegig-object-1(e', x, u, R)])

As an illustration, the derivation of the modified verb $\nu \acute{e}gig^{\circ}_{1}$ -olvas ' $\nu \acute{e}gig$ -read' (cf. (12c)) is shown in (87).²⁵

- (87) a. $[v \text{ olvas}] \Rightarrow \lambda y \lambda x \lambda e[\text{Read}(e, x, y)];$ Mixed $(\lambda e'[\text{Read}(e', x, y)])$
- b. [v [prev végig°,] [v olvas]] ⇒
 λυλχλε[Vegig-object-1(e, x, u, Read)] = λυλχλε[Read(e, x, u) ∧
 ∀u'[u' ⊆ u → ∃e'[e' ⊆ e ∧ Read(e', x, u')]] ∧
 ∀e'Ye"[e' ⊆ e ∧ e" ⊆ e ∧ ¬(e' = e") →
 ¬∃u'[u' ⊆ u ∧ Read(e', x, u') ∧ Read(e", x, u')]] ∧
 ∃e'∃u'[e' ⊂_{tai} e ∧ u' ⊂ u ∧ Read(e', x, u')]]

Note that in (87a) I assume that *olvas* 'read' denotes a mixed event predicate, i.e., it is aspectually underspecified between an activity and an accomplishment, and the addition of $v\acute{e}gig^{\circ}_{1}$ specifies an accomplishment interpretation.

The motivation for having the argument u of végig° 1 vary over physical objects or

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events is to account for examples like (13) in which the object of the verb $v\acute{e}gig^\circ_i$ -vinni, $v\acute{e}gig^-$ take' is an event-denoting NP (specifically, a magánosítás' the privativization'). The analysis in (84) states that $v\acute{e}gig^\circ_i$ applies to three-place relations. This means that $v\acute{e}gig^\circ_i$ does not modify intransitive verbs that are not three-place relations semantically. Most intransitive verbs, of course, are not three-place relations semantically and so modification by $v\acute{e}gig^\circ_i$ is unacceptable, even if the verbs in question fulfill the requirement of not denoting divisible event predicates (see (86a)), as in (88).

- (88) a. #A tanárok végig-indultak. the teachers *végig*-departed
- b. #A diákok végig-érkeztek the students *végig*-arrived

However, there are intransitive verbs that are compatible with $v\acute{e}gig^{\circ}_{1}$ and that arguably denote three-place relations, even though the external argument is not realized syntactically. One such example was given in (11a) with the verb reped 'cracked', and another is the following:

Az ingujj végig°₁-hasadt. the shirt-sleeve *végig*-tore 'The shirt-sleeve tore all over.'

(89)

The verbs *reped* 'crack' and *hasad* 'tear' participate in what is known as the causative alternation: they are detransitivized versions of the causative verbs *repeszt* 'crack' and *hasit* 'tear', respectively. While I cannot go into the details of the causative alternation here (see Levin and Rappaport Hovav 1994), it is plausible to think that the detransitivized forms are really three-place relations semantically and that this enables them to satisfy the requirements of *végig*°₁. Some evidence that an external argument is semantically present is provided by the fact that it can be expressed by means of the ablative case:

- (90) a. Végig-repedt a föld a szárazság-tól. végig-cracked the earth the dryness-ABL 'The earth cracked all over from the dryness.'
- b. Az ingujj végig°₁-hasadt a kés-től. the shirt-sleeve *végig*-tore the knife-ABL 'The shirt-sleeve tore all over from the knife.'

If the analysis of *reped* 'crack' and *hasad* 'tear' as three-place relations is tenable, then they do not pose a problem for my account of $v\acute{e}gig^{\circ}_{1}$.

The restriction to nonatomic parts in the case of physical objects parallels the restriction to extended parts in the case of events or times (see (62) and footnote 19). In particular, it would be too strong to require in (84) that every atom of u participate in a distinct event of type R.

In (87b) the variable u is replaced by y in the expanded formula, which is to emphasize that Read restricts the argument u to physical objects, per (87a).

5.3.2. Végig as a transitivizer. The semantics of the transitivizing function of végig° is unmistakenly similar to that of végig^t, as a comparision of (91) with (73) will reveal:

(91) [Prev végig°₂]) $\lambda R \lambda t \lambda x \lambda e[R(e, x) \wedge \tau(e) = t \wedge \forall t'[t' \subseteq_{ini} t \wedge Extend(t') \rightarrow \exists e'[e' \subseteq_{ini} e \wedge R(e', x) \wedge \tau(e') = t']] \wedge \exists t' [t' \subseteq_{ini} t \wedge Extend(t')]] =_{def} Vegig-object-2$

The essential difference between the analyses in (91) and (73) is that $v\acute{e}gig^{\circ}_{2}$ introduces a time argument at the level of the verb, whereas $v\acute{e}gig^{\dagger}$ does so at the level of the clause. Specifically, $v\acute{e}gig^{\circ}_{2}$ applies to two-place relations R between events e and physical objects x and enhances them with a time argument t that serves as the temporal trace of e. Syntactically, $v\acute{e}gig^{\circ}_{2}$ is apreverb and requires its time argument to be caselinked to accusative:

- (92) a. $[v[p_{rev} \nu \acute{e}gig^{\circ}_{2}][v \alpha]]$
- b. νégig°₂: λt[ACC]

Parallel to the results in (80) and (82), it can be shown that $v\acute{e}gig^{\circ}_{2}$ entails that the relation R is not a whole (hence accomplishments and achievements are excluded) and that the result of transitivization is a strict whole:

- (93) a. Fact. $\exists e\exists t[Vegig-object-2(e, x, t, R)] \rightarrow \neg Whole(\lambda e0[R(e', x)])$
- Fact. ∃e[Vegig-object-2(e, x, t, R)] →
 Strict-whole(λe'[Vegig-object-2(e', x, t, R)])

Recall that an aim of this paper was to show how the (a)-sentences of (1)-(4) are synonymous with the (a)-sentences of (5)-(8), despite the difference that *végig* transitivizes the verb in the former and modifies the clause in the latter. Taking (1a) and (5a) as the key examples, the analysis of (5a) was given in (83a) and the derivation of (1a) is provided in (94).

$$\exists e'[e' \subseteq_{ini} e \land \tau(e') = t' \land Dance(e', x)]] \land \exists t'[t' \subseteq_{ini} t \land Extend(t')]]$$

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- (94) a. [$_{V}$ táncol] 'dance' $\Rightarrow \lambda x \lambda e[Dance(e, x)]; Mixed(\lambda e'[Dance(e', x)])$
- b. [v [rev végig°2] [v táncol]] 'végig-dance' ⇒
 λtλxλe[Vegig-object-2(e, x, t, Dance)] =
 λtλxλe[Dance(e, x) ∧ τ(e) = t ∧∀t'[t' ⊆m; t ∧ Extend(t') →
- [v_P Réka végig-táncolta az éjszakát] 'Réka danced throughout the night' ⇒ λe[Vegig-object-2(e, Reka, The-night, Dance)] = λe[Dance(e, Reka) ∧ τ(e) = The-night ∧ ∀t'[t' ⊆_{ini} The-night ∧ Extend(t') → ∃e'[e' ⊆_{ini} e ∧ τ(e') = t' ∧ Dance(e', x')]] ∧ ∃t'[t' ⊂_{ini} The-night ∧ Extend(t')]]

Although the sentences in (1a) and (5a) differ in how they are built up semantically the resulting meanings are the same, as a comparison of the formulas in (83a) and (94c) makes clear.

Actually, this equivalence is no accident, and as a final result I point out that if a predicate P is identified with the corresponding event predicate of a two-place relation R for a value of its argument X, then the result of applying $v\acute{e}gig^t$ to P for a value of t is equivalent to the result of applying $v\acute{e}gig^o_2$ to R for the same value of:

(95) Fact. $P = \lambda e^{t}[R(e^{t}, x)] \rightarrow Vegig-time(e, P, t) \leftrightarrow Vegig-object-2(e, x, t, R)$

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