EVENTS, PROCESSES, AND STATES

ABSTRACT. The familiar Vendler-Kenny scheme of verb types, viz., performances (further differentiated by Vedler into accomplishments and achievements), activities, and states, is too narrow in two important respects. First, it is narrow linguistically. It fails to take into account the phenomenon of verb aspect. The trichotomy is not one of verbs as lexical types but of predications. Second, the trichotomy is narrow ontologically. It is a specification in the context of human agency of the more fundamental, topic-neutral trichotomy, event-process-state.

The central component in this ontological trichotomy, event, can be sharply differentiated from its two flanking components by adapting a suggestion by Geoffrey N. Leech and others that the contrast between perfective and imperfective aspect in verbs corresponds to the count/mass distinction in the domain of nouns. With the help of two distinctions, of "cardinal count" adverbials versus frequency adverbials, and of occurrence versus associated occasion, two interrelated criteria for event predication are developed. Accordingly, "Mary capsized the boat" is an event predication because (a) it is equivalent to "There was at least one capsizing of the boat by Mary," or (b) because it admits cardinal count adverbials, e.g., "at least once," "twice," "three times." Ontologically speaking, events are defined as those occurrences that are inherently countable.

Twenty years ago, in an article published in the Philosophical Review, Zeno Vendler presented a four-fold distinction of verb-types: activities, accomplishments, achievements, and states. The Vendler scheme was intended as a refinement and systematization of a host of related distinctions that had been drawn informally and ad hoc by Ryle and others, e.g., "dispositions" vs. "occurrences," "achievements" vs. "tasks." The scheme can be first grasped intuitively by reflecting on some of the examples Vendler cites under each category:

<table>
<thead>
<tr>
<th>Activities</th>
<th>Accomplishments</th>
</tr>
</thead>
<tbody>
<tr>
<td>run (around, all over)</td>
<td>run-a-mile</td>
</tr>
<tr>
<td>walk (and walk)</td>
<td>paint-a-picture</td>
</tr>
<tr>
<td>swim (along, past)</td>
<td>grow up</td>
</tr>
<tr>
<td>push (a cart)</td>
<td>recover from illness</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Achievements</th>
<th>States</th>
</tr>
</thead>
<tbody>
<tr>
<td>recognize</td>
<td>desire</td>
</tr>
<tr>
<td>find</td>
<td>want</td>
</tr>
<tr>
<td>win (the race)</td>
<td>love</td>
</tr>
<tr>
<td>start/stop/resume</td>
<td>hate</td>
</tr>
<tr>
<td>be born/die</td>
<td>dominate</td>
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</tbody>
</table>

Here is a brief characterization of the four types.
Achievements capture either the inception or the climax of an act; they can be dated, or they can be indefinitely placed within a temporal stretch, but they cannot in themselves occur over or throughout a temporal stretch. (They do, however, "take" time, in a sense that will shortly be explicated.) Accomplishments, by contrast, have duration intrinsically. So in the case of accomplishments we can properly say "X V-ed" with reference to the whole of that time segment, not just with reference to a single moment, e.g., "Jones wrote the letter over the lunch break." Moreover, accomplishments are not "homogeneous." To quote Vendler, "in case I wrote a letter in an hour, I did not write it, say, in the first quarter of that hour." It is an essential feature of activities that they are homogeneous. If "Jones is (or 'was' or 'will be' or 'has been' or 'had been') running for half an hour," then it must be true that "he is (or 'was,' etc.) running for every time stretch within that period." Vendler comments: "any part of the process is of the same nature as the whole." Moreover, at each moment it is correct to say both "Jones is running" and "Jones has run." Most saliently, the time stretch of activities is inherently indefinite; for they involve no culmination or anticipated result.

Finally, states, which may endure or persist over stretches of time, differ from accomplishments and activities in that they "cannot be qualified as actions at all." Verbs expressing states do not have progressive forms: we cannot say – at any rate not in good English – "I am knowing" or "I am loving." A state, as the name implies, involves no dynamics. Though it may arise, or be acquired, as a result of change, and though it may provide the potential of change, the state itself does not constitute a change.

A similar distinction, but with three rather than four types, was later developed, independently, by Anthony Kenny and published in his book Action, Emotion and Will. His three categories are activities, performances, and states. The main difference from Vendler's scheme is that achievements and accomplishments are not recognized as separate types. In Kenny's scheme, "discover," "find," and "convince," which clearly are achievements in Vendler's scheme, count as performances, right next to such clear Vendler-scheme accomplishments as "grow up" and "build a house." It is not unreasonable to integrate the two schemes by regarding Vendler accomplishments and achievements as two sub-species of the more encompassing species of Kenny performances. This integration, however, cannot be brought off without correcting one of the criteria of the typology posited by Vendler and correspondingly making a different correction on one of the criteria posited by Kenny. Vendler argued that accomplishments together with activities form one "genus," and achievements together with states, another, because – as he thought – achievement
verbs are like state verbs in not admitting the progressive. This distinction in terms of two genera fails because the grammatical criterion on which it is based fails. One can easily cite or compose well-formed sentences in which any of the verbs in the achievements list given above appear in the progressive, e.g., "He is winning the race." In Kenny's scheme what stands in the way of integration is Kenny's adoption of "finish/not finish V-ing" as one of the criteria for performances. The criterion, clearly, works only for accomplishments; it does not work for achievements, and in fact rules out five of Kenny's own examples of performances – the three cited above as clearly qualifying as Vendler achievements, plus "kill" and "decide whether." What argues strongly for the integration is that both accomplishments and achievements are actions that involve a product, upshot, or outcome. Moreover, there cannot be an accomplishment without a closely related end-point achievement – one cannot say "I wrote/shall write the letter" if he cannot say "I finished/shall finish the letter." Significantly, both accomplishments and achievements "take" time, indeed definite time, i.e., they are both admissible into contexts of the form, "It took him \( N T \) s to \( V \)," where \( N \) is a count expression and \( T \) is a unit of time. (It is tempting to say further that both accomplishments and achievements admit also adverbials of the form, "in \( N \) of \( T \)." It appears, however, that for many achievements this type of adverbial is indistinguishable in its entailments from "after \( N \) of \( T \)." Thus "We shall start in two minutes" is indistinguishable from "We shall start after two minutes." By contrast, "I shall run a mile in five minutes" means something quite different than "I shall run a mile after five minutes.")

The distinctions worked out by Vendler and Kenny are conceptual tools of great usefulness in the philosophy of action, the philosophy of mind, in ontology generally, as well as in linguistics, and even in the history of philosophy – notably the study of Aristotle. But just because they are so very useful it is important for us to realize that they could, and indeed should, be conceived more broadly – in a wider linguistic context, and in a wider ontological context.

A significant advance in Kenny's analysis is that it introduced a table of "tense-implications" and nine supplementary linguistic criteria – involving permissible adverbial phrases, paraphrase possibilities and transformations of mood or voice – for the purpose of grouping verbs under the three types. This very advance, however, points up a crucial limitation, one that equally as much limits the purview of Vendler's analysis. At the time they
published their respective schemes, neither Vendler nor Kenny had realized that the distinctions they sought to articulate had long been studied by linguists under the heading of "verb aspect." This linguistic phenomenon, a common heritage of Indo-European languages but also pervasively important in many languages outside the I.-E. family, was first correctly understood by the grammarians of Slavic languages. In Russian, for example, verbs articulate themselves in what are known as "imperfective vs. perfective aspectual pairs." Thus corresponding to the two English verbs "treat" and "cure," Russian has a single verb in two aspectual forms lečit', imperfective, conveying the activity sense of "treat," and vylęčit', perfective, carrying the achievement sense of "cure." Correlatively, whereas the same English verb form, e.g., "sang," can have the sense of activity in one context, the sense of accomplishment in another, Russian requires that the two senses be shown as distinct through use of the aspectual marker: thus pel for the activity context, "He sang for hours," but spel for the accomplishment context, "He sang the International." Greek, too, both Ancient and Modern, shows aspectual distinctions sharply. In Plato's Iōn 530A Socrates asks: ἐγωνύζεω [imperfect preterite] τε ἐμελέω; καὶ πᾶς τι ἐγωνύσσω [same verb, perfective preterite]; "And did you compete [activity]? And how did you succeed [achievement]?"

Aspectual distinctions, without being so overtly and perspicuously marked as they are in the Slavic languages or in Greek, are also found in English. Here is an especially suggestive example, from actual television script: "I can't wait to see what he's been doing [activity, imperfective] when he's done it [accomplishment, perfective]." Standard examples are: "John was reading [activity, imperfective] when I entered [achievement, perfective];" also the contrast between "I saw the accused stabbing [activity, imperfective] the victim" and "I saw the accused stabbing [activity, imperfective] the victim."

The terminology of "perfective" vs. "imperfective" is not yet standard in English, though it appears to be gaining currency. It is adequate for our purposes here, but we must guard against confusing perfective aspect with the perfect tenses (present perfect, pluperfect). The function of the latter is not to provide a categorization of the type of action, in the way suggested by the examples above; it is rather to encode the "phase" of time reference, specifically, to mark a certain action, occurrence, or situation as temporally prior and relevant to a given reference point. The simple perfect in English is often, but not always, perfective. ("He has arrived," "He has been to Australia," both perfective; "He has lived here all his life," imperfective.)
The relevance of verb aspect to the questions of verb-typology that were studied by Vendler and Kenny must now be obvious. Many of the distinctions will be misdescribed if it is thought that they arise mainly from the semantics of individual verbs, when in fact they involve fundamental linguistic categories reflected partly at the lexical level and partly – in the case of Indo-European languages, pervasively – at the morphological and syntactic level. Here are three cases-in-point of how the failure to diagnose distinctions as ones of aspect either raises problems for the accounts offered by Vendler and Kenny or has the effect of leaving the accounts misleadingly incomplete.

1) Vendler classifies "know" as a state, but then has no way to explain how in "And then suddenly I knew!" it can have the "insight sense," which is the sense of an achievement. Kenny does not discuss divergent uses for his examples of state verbs. But it is not difficult to imagine cases where a Kenny state verb, for example "understand," would be more appropriately classified as a Kenny performance: e.g., "Once Lisa understood (grasped) what Henry's intentions were, she lost all interest in him," or "Please understand (get the point) that I am only trying to help you!" There is, of course, no aberrance of English idiom in either case. The special affinity of "know" or of "understand" for state contexts is beyond doubt; but, given the possibilities of semantic transposition provided by the aspectual system, these two verbs, or others that are semantically similar, can function quite aptly in a performance context – or, for that matter, in an activity context: "I'm understanding more about quantum mechanics as each day goes by." This sort of multivalence constitutes enough of a pattern to make it quite wrong for us to talk in terms of exceptional or catachrestic uses of certain verbs. Accordingly, when linguists nowadays operate in the territory of phenomena explored by Vendler and Kenny, they often speak not of types of verbs but of types or categories of verb predication.

2) My second point I draw from Vendler's account alone. It will have been noticed that in his scheme "run" forms an activity predication in some contexts, a performance predication in others. He discusses the distinction as follows:

But even if it is true that a runner has run a mile in four minutes, it cannot be true that he has run a mile in any period which is a real part of that time, although it remains true that he was running, or that he was engaged in running a mile, during any substretch of those four minutes.
In the phrases marked here in italics the verb is in an accomplishment predication, as marked by the adverbial "in four minutes," which is one of Vendler's tests for accomplishments. In the phrases marked by small capitals, the verb is in activity predication, as marked by the adverbial phrase "during any substretch . . .," which expresses the homogeneity condition, the prime test for activities. It might seem at first blush that the distinction hinges on the presence of a verb object in the one case and its absence or suppression in the other. (As Vendler's punctuation indicates, what corresponds to the objectless phrase "was running" is the whole phrase "was engaged in running a mile," which is what I mean in saying that the object is here suppressed.) But this difference in fact plays no role. Vendler's point would hold even had he written simply:

\[\ldots\text{it remains true that he was running a mile during any substretch, etc.}\]

The generic activity of running can be further differentiated into a species (one among indefinitely many) of running-a-mile without losing its character as an activity. In other words, regardless of whether a mile is or fails to be run, any substretch of running-a-mile activity divides homogeneously into substretches of the same. There is, after all, a qualitative distinction between the activity of running a mile and the activity of running the hundred-meter dash or the Marathon.

We need not assume, of course, that the distinction the two contexts make clear must also be marked in the verb itself or in the verb's arguments (subject, object). In the example at hand, however, the distinction is marked, morphologically: by the use of simple forms in the phrases printed in italics (perfective aspect) and use of progressive forms (imperfective aspect) in the two phrases printed in small capitals.\(^{26}\)

3) My third case-in-point involves a passage in Kenny. To show the logical importance of his scheme of verb-types he makes this observation:

\[\text{It is sometimes said by logicians that if a proposition is true now, then the corresponding past-tensed proposition will be true in the future; e.g., if "Mr. McMillan is Prime Minister" is true now, then Mr. McMillan was Prime Minister will be true in the future. This rule as it stands does not apply to performance-verbs. A man may be walking to the Rose and Crown, and yet never walk there, perhaps because he is run over on the way.}^{27}\]

The observation is valid enough. Yet the right thing to do with the logicians' rule is not list types of verbs for which it does not hold, but to adhere more carefully to the rule's terms. The crucial words are "corresponding past-tensed." What the unnamed logicians had obviously taken for granted was that the aspect of the verb is to remain unaltered in the transposition from present to past tense.\(^{28}\) In Kenny's example of the walk to the Rose
and Crown, the first occurrence of the verb is in imperfective, the second in
perfective aspect. The contrast is easily missed in English because the
suffix "-ing" is not only part of the marker of the imperfective aspect but
often simply a neutral participial or gerundial ending. In the example at
hand, to keep parity of aspect we have two options:

(a) Perfective aspect throughout: If it is true now that he has this
very moment walked to the Rose and Crown, it will be true in
the future that he did walk, or had walked, to the Rose and
Crown.

(b) Imperfective aspect throughout: If it is true now that he is
walking, or has been walking, to the Rose and Crown, it will be
true in the future that he was walking, or had been walking, to
the Rose and Crown.

The critique offered in my three cases-in-point might lead to certain
misunderstandings, which I hasten to forestall. The function of aspect is not
limited to providing assignment to one or another of the categories
activity-performance(accomplishment/achievement)-state. One of the
major functions that lies outside the Kenny-Vendler typology is the enco-
ding of patterns of frequency or habituation. This is characteristically true
of the imperfective aspect: consider French j‘écrivais (imperfective)
souvent, "I wrote frequently"; or Russian ja begal (imperfective), "I used
to run." A wide variety of other points of information, also unrelated to the
Kenny-Vendler typology, may be encoded through aspect — e.g.,
endeavor, serialization, spatial distribution, temporary or contingent state.
Moreover, even in those cases where the predication is classifiable under
one or another of the Kenny-Vendler categories, the verb’s aspectual
marking does not by itself specify the relevant category. In all cases a total
of six factors are involved: (a) the verb’s inherent meaning; (b) the nature
of the verb’s arguments, i.e., of the subject and of the object(s), if any; (c)
adverbials, if any; (d) aspect; (e) tense as phase, e.g., the perfect; (f) tense
as time reference to past, present, or future. An account of how these
factors interact with one another to determine the resulting verb predi-
cation lies outside the scope of the present paper. On the basis merely of
the list just cited, my critique so far of the Kenny-Vendler approach can be
put as follows. Kenny and Vendler sought to classify verb types by noticing
selections and restrictions that factors (b), (c), and (e) together with (f)
exercise on candidate verbs. What they did not notice is the heavy role
played by factor (d). They also did not realize that factors (b) through (f)
work selections and restrictions on one another as well as on the candidate
verbs.
Even without expanding our horizon so as to take in the linguistic phenomenon of verb aspect, it is not difficult to realize that there are verbs and verb uses that are classifiable neither as activities nor as performances, but which may not be classifiable as states either. This is a second respect in which the Kenny-Vendler typology is too narrowly conceived. Philosophical interest in distinctions between verbs arose from discussions in the philosophy of mind and the philosophy of action. Yet the trichotomy activity-performance-state obviously falls under an ontological trichotomy of wider scope, viz., process-event-state. Vendler and Kenny were doubtless aware of this wider ontological context; but they failed to appreciate how its existence renders their respective typologies incomplete.31

In Vendler's account the incompleteness shows up in a counterintuitive analysis of "see." He observes, first, in agreement with Ryle, that there is "no question that seeing can be an achievement," and speaks of a "'spotting' sense of seeing." He then recognizes that in "I saw him run (or cross the street)" seeing cannot be an achievement, for it "must have a sense that admits a period of time." He then reasons that since it cannot be an activity, nor an accomplishment – not a "process," as he puts it – the "saw" of "I saw him run" must refer to a state. This diagnosis hardly accords with our intuitions. There is no difficulty in paraphrasing "He was running" as "He was engaged in the activity of running." But would we really be tempted to paraphrase "I saw him run" as "I was in a state of visual awareness of him running"? Besides, we could easily supply a context for "I saw him run" that would make it appropriate for this sentence to be an answer to the question, "What happened next?" a question that could not envisage a state predication as one of its possible answers. It is certainly significant that in languages with a sharp perfective/imperfective distinction in the past tense (French, Greek, Russian) a perfective form in the main verb would be required to translate the sentences "I saw him run" and "I saw him cross the street." So the force of "I saw" in these two sentences is not to convey the state of the subject but to record a sighting or a seeing, however protracted, as an occurrence, as an individuated something that took place. The correct category for the "saw" of Vendler's sentence is event. The notion of "event" I have invoked here will become precise in the concluding section of this paper. Meantime, relying still on intuitions, I should point out that event is the right classification for the focal referent not only of sentences similar to "I saw him run," that could not be classed as referring to performances; it holds as well for all sentences referring to performances. Event is simply the topic-neutral
category. If there is a performance A, there is also an event A, but not vice versa. Performances are those events that are instances of human (or personal, or quasi-personal) agency.

Tracing this line of thought further, it appears that purely natural events can be differentiated into: topic-neutral developments, the counterpart of Vendler's accomplishments; and topic-neutral punctual occurrences (i.e., various starts, resumptions, split-second events, stoppings, and climaxes), the counterpart of Vendler's achievements. The topic-neutral counterpart of state needs no separate name; it is quite obviously state in the widest and quite familiar sense, the one employed by physicists or physiologists when they speak of "the solid state," or of a "metabolic state." Process, a term ready to hand, is the topic-neutral counterpart of activity. (We need, however, to be on guard against possible confusion since some authors, especially philosophers in the context of discussion of mind-body identity, have used "process" as the counterpart of "accomplishment.").) If we now adopt an intermediate generic term, occurrences will be the topic-neutral counterpart of actions; and if we may coin a term for the encompassing genus, situations will comprise occurrences and states. The generalized trichotomy appears embedded in a scheme of nested binary contrasts:

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+----------------+        +----------------+        +----------------+
| situations     |        | states          |        | occurrences     |
|                |        | (actions)       |        | (actions)       |
|                |        | processes       |        | events          |
|                |        | (activities)    |        | (performances)  |
|                |        | developments    |        | punctual        |
|                |        | (accomplishments)|        | occurrences     |
|                |        | (accomplishments)|        | (achievements)  |
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Here are examples of verb predications that refer to purely physical situations:

State: The air smells of jasmine.
Process: It's snowing.
Development: The sun went down.
Punctual occurrence: The cable snapped. He blinked. The pebble hit the water.

Of special interest are, of course, sensory occurrences. Intimately related to the realm of agency, they do not in themselves constitute actions. But just as there can be visual or auditory states (e.g., "I see dimly"; "I hear you well"), so there can be visual or auditory processes ("I'm seeing a
bright light”; “I'm hearing buzzing sounds”), visual or auditory developments (Vendler's example, “I saw him cross the street”; “I heard him sing a serenade”) and visual or auditory punctual occurrences (“I caught a glimpse of him as he was crossing the threshold,” cf. Vendler's “spotting’ sense of seeing”; “I heard him cough”).

The existence of this wider ontological context is implicitly recognized in the literature of linguistics, where distinctions have been couched in the topic-neutral terms of “processes vs. state (or 'status' or 'stative') predication,” or of “event vs. state predication.” What has not been brought out clearly by linguists is that these distinction pairs, together with a third one, of process vs. event predication, constitute the sort of system I have outlined and diagrammed here. In this respect, in spite of limitations I have discussed, the Kenny-Vendler typology is especially valuable; for it certainly envisages a single scheme rather than a set of ad hoc distinctions.

III

Even wider theoretical vistas have opened up in recent years as linguists search out the logical or formal-semantical sources of verb-types and verb aspect. Of several approaches taken, I turn here to one that seems particularly attractive for the reason that it treats of aspectual phenomena as manifestations of the play of categories so fundamental as to span the distinction between verbs and nouns. It has been suggested by several authors that a distinction between count terms (which include, but are not limited to, what philosophers call “sortal terms” or terms that “divide their reference”) and mass terms is in some way involved in determining the category of the verb predication. Let me first briefly review the count vs. mass distinction as it obtains in its familiar environment, the nominal system.

Nouns such as “squirrel,” “equation,” and “snowflake” are count terms. Such terms have plural forms that involve no switch of meaning from the singular form; they take cardinal numerals, the indefinite article; they can be governed by the phrase that is the informal equivalent of the existential quantifier, “there is at least one”; they can be used with the adjectives “many,” “several,” “few,” “each,” and “every.” Nouns such as “wine,” “snow,” and “hunger” are mass terms. They generally do not have plural forms, or if they do there is a meaning shift: wines are types of wine. None of the other adjectives cited as admissible with count terms are admissible with mass terms – except, again, with meaning shifts. Adjectives that go naturally with mass terms are: “much,” “little,” “too much,” “too little,”
"enough," and the like. There are also ambiguous terms, such as "lamb" ("Mary was given a lamb" versus "Mary had lamb for dinner") or "noise" ("There's too much noise in the hall" versus "I heard a noise"). Moreover, there are terms that have the syntax of mass terms even though the ultimate referents are discrete objects that would in themselves be referred to through the use of count terms. An example would be "furniture": we can say "much furniture," "little furniture"; we cannot say "three furnitures" or "many furnitures"; yet the entities referred to are tables, chairs, and the like, entities that have a definite number.\textsuperscript{42}

In exploring analogues of these distinctions in the realm of verbs, linguists have focused mainly on the object of the verb, since it often seems that the object lends its character to the predication as a whole. Thus in "He played a Mozart sonata," where the object is a count term, we have an event predication, more precisely an accomplishment; but in "He played a little Mozart," where the object is a mass phrase, we have a process predication, in particular an activity.\textsuperscript{43}

This is right so far as it goes. But there is an even more fundamental sense in which the predication can be said to have the feature count or the feature mass. Corresponding to an event predication there is a nominalization equivalent in which the original verb appears as a gerund or deverbalative noun (suffixes typically -ion, -ment, -al, -ure) that governs an existential construction of the verb "to be." If the number of occurrences is specified by an adverb in the original version, the number appears as a cardinal numeral modifying the gerund in the nominalized version. If the number is not specified, the existential construction has the characteristic import of the existential quantifier, "There is at least one . . . ."\textsuperscript{44} Here are examples of the two transcriptions.

(a) Vesuvius erupted three times $\leftrightarrow$ There were three eruptions of Vesuvius

(b) Mary capsized the boat $\leftrightarrow$ There was a capsizing of the boat by Mary

The event predication has the count feature in either of the two senses made clear by these transcriptions: either the occurrences are explicitly counted, or if they are not, the occurrences are nevertheless implicitly under the governance of terms that presuppose that the occurrences are countable ("a" or "at least one"). To remind us of this feature, let me refer to the existential constructions in the two transcriptions as "count-quantified."

It appears that count-quantified transcriptions are possible and fairly idiomatic in the case of every predication that would otherwise – by
Kenny–Vendler and related criteria — qualify as an event predication. Now if we should find that nominalization transcriptions work quite differently in the case of process predication or state predication, we would perhaps have a simple and abstract criterion for drawing distinctions of predication category. Before we can proceed to this, however, we need to become clear about certain subsidiary distinctions, failure to observe which would tend to muddy the application of the criterion we envisage.

Adverbials such as “twice,” or “five times,” which might be called cardinal count adverbials, are to be distinguished from adverbials such as “twice a year,” “five times a week,” “often,” “seldom,” or “always,” which are called frequency adverbials. Of course, if “three times” is shown in context to be elliptical for “three times in a recurrent period (e.g., week, year, month),” it functions as a frequency, not as a cardinal count, adverbial. Moreover, certain adverbials are ambiguous: “many times” may be an indefinite cardinal count, or it may be a measure of frequency.

Another important distinction is between the occasion of a situation and the situation itself. The distinction can be illustrated with examples of the four types of situation discussed in the preceding section — I mark the occasion phrase by italics:

(a) Tom loved Mary (state) when he was a teenager.
(b) He swam (activity) on Thanksgiving.
(c) He crossed the street (accomplishment) upon seeing her.
(d) He reached the summit (achievement) on three different expeditions.

The distinction is essential in choosing between alternative readings of certain sentences. Thus “He knocked on the door three times” may mean that there was one knock on the door on three different occasions, or it may mean that there were three knocks on one single occasion. What is especially interesting about such cases of double reading is that even if the cardinal count adverbial is assigned to the occasion, another cardinal count adverbial, viz., “once,” is implied as assigned directly to the event.

Let us now attempt to apply the nominalization transcription in the cases of process predication and of state predication. Consider first two examples of process (activity) predication — one example with the predication category marked primarily through lexical means, and one with it marked through imperfective aspect (progressive):

John pushed the cart for hours.
Jones was painting the Nativity.
The transcriptions are, respectively,

For hours there was pushing of the cart by John.
There was painting of the Nativity by Jones.

What strikes one immediately is the absence of the indefinite article. The pushing and the painting in these contexts do not have the terminus or closure that would allow us to speak of a pushing or a painting—we are not told that the cart was pushed some place, or that the Nativity did get painted. The parallel with simple nouns for these transcriptions is not in sentences of the form "There is at least one K"; it is rather in sentences of the same form as "There is snow on the roof," or "There is gold in this mountain." And just as we can amplify or supplement the latter two examples with expressions such as "little," "much," "enough," and the like, we can use these same expressions to amplify or supplement the nominalization transcriptions of our two examples of process predication.

The last observation already suggests that cardinal numerals are not admissible in nominalization transcriptions of process predications. If there cannot be "a painting" or "a pushing," in the sense required by the context of our examples, there could not be two, three, or more. I shall accordingly refer to these transcriptions as "mass-quantified." We should expect as a corollary that cardinal count adverbials are not admissible with process predications (in their normal, non-transcribed form). Certainly we get nonsense if we attach a cardinal count adverbial to our first example: *"He pushed the cart twice for hours." Even more striking is what happens if the example sentence is simply: "He pushed the cart." This sentence could, doubtless, without any other adverbial, have the import of a process predication in a suitable context. Adding, however, the cardinal count adverbial "three times" suffices to transform this prima facie process predication into an event predication. Thus "He pushed the cart three times" has to be construed as elliptical for some performance predication—as the context might implicitly specify—e.g., "He pushed the cart three times out of his way." or "He pushed the cart over the hill three times," or, "He started pushing the cart three times." In any of these cases there were, in the relevant sense, three completed pushings of the cart. Similarly with the example used in making the distinction between situation and occasion: "He swam three times on Thanksgiving" cannot fail to have the implication that he took three swims, that three swims were completed—regardless as to whether the context does or does not indicate the actual distance covered in each of these swims.
Consider now the example in which the predication category is marked solely through imperfective aspect: "Jones was painting the Nativity twice" is, on the face of it, odd and badly in need of interpretation. Assuming that Jones has already painted the Nativity once, the use of the progressive precludes that we can speak of more than one (completed act of) painting. So if the sentence has any meaning, the adverbial phrase ranges over two occasions of painting, not over two paintings. Thus the meaning may be: "He was again (or for the second time) painting the Nativity." On this interpretation there may not have been even one painting of the Nativity by Jones: there may simply have been two occasions on each of which it was true that "Jones was painting the Nativity." Doubtless other, more ingenious, interpretations may be possible – e.g., that Jones was an actor and the two paintings were staged events being viewed prospectively in the past, or that by some rigging device Jones was producing simultaneously two copies of the Nativity. But I trust it is clear that the upshot of these interpretations will be either that "twice" ranges over occasions, or that the use of the progressive was non-aspectual, or that the duality is one of associated objects, not of occurrences. Curiously, it does not appear to have been noticed in the literature that non-artificial, idiomatic uses of the form "S is (was, will be, has been, etc.) V-ing N times" are extremely rare. Examples that come to mind are the auctioneer's "Going once, going twice," or the strain from the Santa Claus song, "He's making a list, he's checking it twice." Clearly in neither of these cases do the cardinal count adverbials count the occurrences represented by the verb. In the auctioneer's case what is counted is the auctioneer's calls, not the "goings"; in the Santa Claus case, the meaning is "he's double-checking," or "he's checking for the second time" (an ordinal count of the occasions).

How do the nominalization transcriptions work in the case of state predication? Count-quantified transcriptions do not seem to work at all. We cannot transform "John hates liars" into "There is a hating by John of liars"; nor can we transform "Helen dominates her husband" into "There is a dominating by Helen of her husband." Correspondingly, cardinal count adverbials do not occur in contexts of state predication – unless they refer purely to the occasions of the state rather than the state itself. "John hated liars three times in his life" is acceptable provided it is stages or junctures of John's life that are being counted. Moreover, if an occasion phrase is already supplied, the use of a cardinal count adverbial in collocation with a prima facie state predication has the effect of transforming the latter into an event predication. Thus "John loved her last summer" is most naturally construed as synonymous with "John was in love with her last summer." But "John loved her three times last summer" must mean
either that “John fell in love with her three times last summer” or that “John made love to her three times last summer.”

Mass-quantified transcriptions are, however, possible for state predications. To be more precise, state predications admit of such transcriptions typically through use not of the gerund but of specially associated deverbal nouns. Thus we can say: “There is hate by John of liars”; “There is dominance of her husband by Helen”; “There is love of her by John.” This avoidance of the gerund forms in the transcription of state predications gives us another intuitive handle on the distinction between states and processes. In syntactical terms, however, the transcription does not differentiate between process and state predications. Both are mass-quantified, both accept expressions such as “much,” “little,” “enough.”

This is not a disappointing result, since there is a well known tendency of states to meld with processes and vice versa – “I doubt the truth of this assertion” could mean “I question the truth of this assertion,” and vice versa. This is reflected in the affinity of state predication for the imperfective aspect in the case of languages like Greek or Russian that have a sharply marked perfective/imperfective distinction.

What the device of nominalization transcription enables us to determine is that all and only event predications are equivalent to count-quantified existential constructions. As a corollary, all and only event predications include, or can admit, or imply cardinal count adverbials that refer to the situation itself, as distinct from associated occasions. Thus in “He crossed himself three times,” the cardinal count adverbial is included; in “He crossed himself,” the adverbial “three times” is admissible; in “Vesuvius erupted,” the adverbial “at least once” is implied; in the ambiguous “He knocked on the door three times,” either the adverb “once” or the adverbial “three times” is implied as referring to a knock or knocks, as distinct from the associated occasions or occasion of knocking.

This strong tie between event predication and cardinal count adverbials shows up dramatically in Greek – Ancient and Modern. Perfective forms (in Ancient Greek aorist forms, in Modern Greek the entire perfective system, which includes aorist, perfective future, and perfect) are employed almost exclusively to express event predication. Even though the converse is not true – not all event predications are expressed in Greek through perfective forms – it is nevertheless true that cardinal count adverbials are used preponderately with perfective forms.

If count-quantified transcriptions, or the co-occurrence of cardinal count adverbials that refer not merely to the associated occasion, provide a simple criterion of event predication, we could correspondingly say, in ontological terms, that events are those situations that can be directly or
intrinsically counted. But there is reason to think that in ontology we could go further. For it would seem that events are not merely countable but also fall under sorts\(^{53}\) that provide a principle of count: the questions, “How many capsizings of the boat were there yesterday?” or “How many times did the boat capsize?” envisage determinate answers. Events thus occupy relatively to other situations a position analogous to the one objects or things or substances occupy relatively to stuffs and properties or qualities. This analogy was already noticed by Allen\(^{54}\) and has most recently been explored by Barry Taylor.\(^{55}\) A substance is not homogeneous – or, to use the more precise term used by the ancients, homoeomerous, “like-parted.” A clock is not made up of clocks. Correspondingly, an event \(E\) is not made up of \(E\)-events: the capsizing of a boat is not made up of boat-capsizings. Stuff is homoeomerous: if \(X\) is gold, then all parts of \(X\) are gold. Processes are homoeomerous in the corresponding sense explicated at the opening of this paper à propos Vendler’s activities. Moreover, just as we can collect and thus individuate stuffs into such extrinsic containers as bottles or lumps or measures, we can correspondingly collect and individuate activities into stretches, phases, stages and the like. The two systems converge in their third component: in the case of states, as Vendler so aptly put it, “the role of verb melts into that of predicate, and actions fade into qualities and relations.”\(^{56}\)

There are – notoriously – complications. Few, if any, stuffs are homoeomerous through and through. With many the homoeomery breaks down even before we reach fine grain – e.g., fruit cake. What is remarkable for our purposes is that these complications have counterparts in the domain of situations. If snowing or pushing a cart are paradigms of homoeomerous process, thundering, giggling, or talking may count as paradigms of anhomoeomerous process.\(^{57}\) Moreover, again in linguistic terms, even some of the complications involving mass words are reflected in the language of situations. Thus the duality of “many lambs” versus “much lamb” has its counterpart in the option we have to say: “There were many killings, there were many deaths”; or, with greater pathos, “There was much killing, there was much dying.”

More analogues of complications – even analogues of complications involved in “furniture,” the hybrid mass word mentioned earlier in this section – spring to our notice if we look fully into the role of verb aspect.\(^{58}\) By way of suggesting the richness and relevance of this body of evidence, let me simply point out that whereas English has no simple verb predications that correspond, respectively, to the count-quantified and mass-quantified transcriptions given at the end of the preceding paragraph, Greek does have the equivalent non-nominalized verb predications, viz.,
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NOTES

1. 'Verbs and Times,' 56 (1957), 143-60; later incorporated with revisions as ch. 4 in Linguistics in Philosophy (Ithaca, N.Y., 1967), pp. 97-121. References here will be to the latter version.
2. Ibid., p. 101.
3. Ibid.
4. Ibid., p. 106.
5. Vendler speaks very suggestively of states as "that puzzling category in which the role of verb melts into that of predicate, and actions fade into qualities and relations": ibid., p. 109.
7. Kenny points out the affinity of his own scheme with one introduced by Aristotle in Metaph. Θ1048b18-36, the famous distinction between kinesis (performances) and energeiai (activities or states). In the literature of linguistics, precursors of the Kenny-Vendler typology appear already in the nineteenth century: see Otto Jespersen, The Philosophy of Grammar (London, 1924), pp. 272-73. Jespersen's own distinction is two-fold, "conclusive" vs. "non-conclusive" (p. 273). The year Vendler's original article appeared, a linguist presented a classification scheme for verbs under the rubrics "telic," which express "action tending towards a goal" (cf. Kenny performances), and "atelic," which express actions that "are realized as soon as they begin" (Kenny-Vendler activities): Howard B. Garey, 'Verbal Aspect in French,' Language, 33 (1957), 91-110. In spite of the strikingly Aristotelian terminology, Garey took no note of Book Θ of the Metaphysics. In Nicholas Rescher and Alasdair Urquhart, Temporal Logic (New York and Vienna, 1971), p. 160, "processes or activities" are subdivided into "homogeneous," "majorative," "occasional," and "holistic." The first three correspond to Kenny-Vendler activities, the fourth to Vendler's accomplishments. In an unpublished but now frequently cited manuscript by Michael Bennett and Barbara Partee, the categories are: "stative," "subinterval" (activities), and "nonstative, nonsubinterval" (performances): Toward the Logic of Tense and Aspect in English (1972), pp. 16-19.
8. Kenny, p. 175.
12. And, needless to say, the work of Ryle, and that of others who drew informal ad hoc distinctions, in the spirit of Oxford post-World War II analysis.


16 Broadcast by KRO, April 17, 1972; quoted from Scheffer, p. 42.

17 It is employed by Hirtle, by Dowty, in part by Scheffer, and now by Comrie.

18 For the meaning I attach to 'situation,' see below, p. 423.

19 See Hans Reichenbach, Elements of Symbolic Logic (New York, 1947), pp. 288–98; Comrie, pp. 12, 52–64. For ‘phase’ as the appropriate concept to subsume the distinctive functions of perfect forms, see Joos, pp. 138–46; N. R. Cattell, The New English Grammar: A Descriptive Introduction (Cambridge, Mass., 1969), pp. 120–23. It is unfortunate that Comrie adhered to a traditional (and misleading) classification of the perfect as an aspect.

20 Cf. Comrie, pp. 6–11. Without taking note of the linguistic literature specifically on the topic of verb aspect, Timothy C. Potts, in a symposium discussion of Kenny's work, was first to point out that in Kenny's table of “tense implications” temporal tense distinctions (present vs. past) in fact play no role, the crucial contrasts being between the two underlying “operators,” “continuous” vs. “perfective”: see ‘States, Activities, and Performances,’ Proceedings of the Aristotelian Society, suppl. 39 (1965), 65–84.

21 Vendler, pp. 111–12.

22 Cf. Comrie, pp. 36 ff.

23 This multivalence is, in fact, the rule rather than the exception. See Joos, pp. 114–17; Hirtle, pp. 69–84; Scheffer, pp. 61–75.

24 The approach is sometimes promoted as a corrective to Garey's (above n. 13) misplaced emphasis on verb types: see Allen, p. 198; cf. Geoffrey N. Leech, Towards a Semantic Description of English (Bloomington, 1969), p. 135.

25 Vendler, p. 101: italics and small capitals have been marked by me.

26 It is instructive to consider how the distinction would show in Indo-European languages that are even more strongly marked for aspect than English is. In the case of the runner, in Greek the forms in italics would appear in perfective [aorist] aspect as edramen; the forms in small capitals would even require a different verb-root, etrechen, which is the imperfective suppletive of edramen. In Russian the forms, respectively, would be the perfective pobežal and the imperfective bežal.

27 Kenny, p. 174.

28 Kenny comes close to seeing this (“we might say that the past tense which corresponds to 'is knitting' is 'was knitting' rather than 'knitted'”) but abandons the approach in the belief that it leads to a differently formulated but equivalent exception to the logicians’ rule (p. 174, cf. below, n. 30).

29 In Ancient Greek a counterpart to Kenny’s sentence would be: “Ἐξεκινήσεις τὸν βαίνειν (imperfective, present-stem infinitive) ἀλλὰ μὴ βῆναι (perfective, aorist-stem infinitive).” In Russian one would say something of the order: “He may iditi (imperfective infinitive) but not politi (perfective infinitive, derived from iditi by addition of the perfectivizing prefix po-).”

30 The reader might protest that in (a) the action is viewed as already having taken place, and that the antecedent fails to qualify as a present-tense proposition. Now the misconception that the English present perfect is intrinsically a “past” tense has often been exposed. To draw only on authors cited in this paper, see Reichenbach, pp. 289–90, 295; Joos, p. 144; Leech, pp. 152–58; Potts, pp. 71, 77; Comrie, pp. 52ff., 106–08. In any event, a variant of (a) with the simple present in the antecedent and the simple past in the consequent is also possible if “walks” is construed as in “reportive” use (cf. “And there you have it, Ladies and Gentlemen,
he walks to the Rose and Crown," spoken by an on-the-scene radio or television reporter, seconds after the subject has crossed the pub's threshold). On this perfective use of the simple present, see Leech, p. 139; cf. Scheffer, p. 77. This is the only non-frequentative use of the simple present, and (pace Kenny, p. 174) what corresponds to it for all verbs is the simple past.

Vendler takes note of a distinction in the physical realm between states and what we might noncommitally call "changes": "to be hard" or "to be yellow" versus "to harden" or "to yellow" (p. 108). He even employs the term "process" with reference to the latter two; yet he quickly glosses the term as "activity or accomplishment" (ibid.). At one point he expresses hopeful confidence that "all verbs can be analyzed in terms of these four schemata" (p. 107). Kenny, in spite of the subject-matter limitation implied by the title and theme of his book, does not limit his survey to states that are properly of agents but includes such physical or neutral states as "exist," "be able," "be blue," "be taller than" (p. 175).

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whereas some, e.g., "thing," "red thing," or "quality" fail to do so. Correspondingly, many mass terms qualify as "stuff" terms (see Chappell, pp. 72–73), whereas some, e.g., "hunger," or "wisdom," do not.

43 Cf. Leech, p. 137, on the phenomenon of "semantic concord."


46 Cf. Leech, pp. 125–26 – distinction drawn with reference to events only.

47 Leech’s example, ibid., p. 125.

48 Davidson does not appear to have noticed the infelicity of his formula, "There exists a V-ing event," in the case of processes or activities. It was, however, indirectly noticed by E. J. Lemmon in his "Comments on D. Davidson’s ‘The Logical Form of Action Sentences,’" in Rescher, pp. 101–02. Lemmon pointed out that "Jones was slowly buttering the toast" differs in its entailments from "Jones slowly buttered the toast" in ways that Davidson’s analysis fails to capture. At any rate, it is significant that of all the examples Davidson uses in his articles none are cases of process predication. Even the one possible exception, "Sebastian strolled through the streets of Bologna at 2:00 a.m." ("Individuation," pp. 218–19), is glossed by Davidson as an accomplishment – "Sebastian took a stroll" (my italics, p. 219).

49 I am indebted to Steve Strange for this example.

50 For Ancient Greek, I draw on as yet unpublished research work by my colleague, R. David Armstrong.

51 The only exception being the so-called "gnomic aorist" of Ancient Greek, which, however, involves a quite special and isolated semantic effect.

52 This is the truth, I believe, that underlies the half-truth of traditional Greek grammar, that the aorist is "punctual" – a doctrine that ignores uses of the aorist with reference to developments (accomplishments) as distinct from punctual occurrences (achievements).

53 See above, n. 42.

54 Above, nn. 15, 39.

55 Above, n. 40.

56 Page 109.

57 Cf. Taylor, p. 212.


59 For valuable comments on early drafts of this paper and helpful discussions, I am indebted to R. David Armstrong, Bernard D. Katz, Anthony Kenny, J. M. E. Moravcsik, Francis J. Pelletier, Tom Robinson, and Carlota Smith. I also and specially thank Zeno Vendler for his searching critique of my presentation to the American Philosophical Association's (Pacific Division) meeting in Portland, March 1977. Discussions in spring 1978 with Hans Kamp, Dee Holisky, and with members of the Philosophy Department of the University of Wisconsin, Madison, have motivated several improvements over the penultimate version.