1. Introduction

In the study of ditransitive construction in Japanese, there is a debate that reflects a tension that often arises in linguistic study: the seeming conflict between focusing on what is unique about a particular language and asking what that language can tell us about universal grammar. These two perspectives do not always lead to divergent views, and, when they do diverge, taking one or the other approach by no means gives a better chance of emerging with the right analysis. In the case of ditransitive verbs, an exceptionally unique phenomenon associated with the Japanese language has molded the earliest and even today what we can consider as the most influential analysis. This analysis is driven by the existence of scrambling, which sets Japanese apart from most Indo-European languages and many of the East Asian languages, and it is an operation that has garnered the attention of perhaps more generative linguists working on

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Japanese than any other property of the language. It is no surprise, then, that the
earliest analysis of ditransitive verbs crucially depends on scrambling. Ditransitive
verbs allow both the IO-O-V order and the O-IO-V order. Hoji (1985) argued — quite
convincingly based on what we knew at the time — that the first word order (IO-O) is
basic, and the second (O-IO) is derived by scrambling the O over IO. This is an
entirely reasonable and even a compelling view, one that is certainly compatible with
the evidence that Hoji presents; in this so-called standard analysis of the ditransitive
construction we find yet another domain of Japanese grammar where scrambling plays
a crucial role in making certain expressions possible.

However, in Miyagawa (1997) and Miyagawa and Tsujioka (2004) (see also
Miyagawa 1994), I abstracted away from the two word orders and scrambling, and
looked at the ditransitive construction from another perspective, asking the question,
can we detect in Japanese the two argument structures often shown to be associated
with ditransitive verbs in other languages? Hoji’s approach, in its simplest and most
intuitive form, predicts that Japanese has only one argument structure associated with
ditransitive verbs, the argument structure reflected in the IO-O word order, with the
other word order, O-IO, being a derived form. This is the single-base analysis of
ditransitive verbs. In Miyagawa (1997) and Miyagawa and Tsujioka (2004), instead of
the single-base analysis of Hoji, arguments are given for a dual-base analysis of
ditransitives.¹

In this chapter, I will give further evidence for the dual-base analysis based on
nominalization, building on the important work by Kishimoto (2006). I will in
particularly show that, despite what appears to be a singular argument structure
associated with ditransitives, nominalization helps to tease apart the two argument
structures often associated with ditransitive constructions in many languages.
Furthermore, what we can see in Japanese helps us to understand the right approach to
the nominalization facts in other languages where differences have been detected
between the two argument structures, showing that Pesetsky’s approach based on
Myer’s Generalization makes the right prediction with regard to not only the
similarities between English and Japanese, but also one sharp difference between the
two languages. In the appendix, I will summarize two criticisms of the dual-base
analysis, one that comes from sentence processing and the other from the study of
idiomatization, and the responses that have recently appeared to either neutralize or
effectively argue against the criticisms.

2. –Kata Construction

In the –kata construction, the nominal element –kata ‘way’ attaches to the adverbial
form of the verb (renyokei).

¹For earlier versions of the dual-base analysis, see Kitagawa (1994), Miyagawa
(1994).
(1) Taroo-no syokudoo-de-no piza-no tabe-kata
   Taro-GEN cafeteria-in-GEN pizza-GEN eat-way
   ‘the way of Taro’s eating pizza in the cafeteria’

This corresponds to the sentence in (2).

(2) Taroo-ga syokudoo-de piza-o tabe-ta.
   Taro-NOM cafeteria-in pizza-ACC ate
   ‘Taro ate pizza at the cafeteria.’

In the –kata construction in (1), the arguments — subject and object — which in (2) are marked with the nominative –ga and the accusative –o, must bear only the genitive case marking. Adjuncts such as the locative must retain the postposition and the entire PP must bear the genitive case marking (Sugioka 1992, Ito and Sugioka 2002:104; see also Hoshi 2005). Kageyama argues that the –kata construction is formed in syntax, giving as evidence the fact that it may nominalize clauses containing arguably syntactic elements such as aspectual, causative, and passive morphemes (the following are taken from Kageyama 1993:358).

(3)a. sake-no nomi-hazime-kata

   sake-GEN drink-begin-way
   ‘the way of starting to drink sake’

b. yom-ase-hazime-kata

   read-CAUSE-begin-way
   ‘the way of making (someone) start to read’
These are compelling pieces of evidence for the syntactic analysis, and I will assume it.

What is the process by which this nominalization appears in syntax? Kageyama (1993:363) suggests that the adverbial form of the verb adjoins to the nominal –kata, rendering the verb into a nominal.

Later, I will return to this particular view of nominalization and show that it is compatible with recent developments in syntactic word formation.


In a recent study, Kishimoto (2006) explores a number of issues in syntax using the –kata construction. Kishimoto provides a number of arguments to reinforce Kageyama’s conclusion that this construction is syntactically based, and proposes an analysis that is consistent with the spirit of Kageyama’s study, but with one major difference. Unlike the adjunction analysis that Kageyama proposed ((4) above), Kishimoto suggests that –kata takes a vP (Kishimoto 2006:780). The following is for John-no hon-no yomi-kata ‘the way of John’s reading books’
Just as with Kageyama (1993), there is adjunction to the nominal head *kata*, but what adjoins is an amalgam of the verb in the adverbial form and the “small” v, the latter having been picked up by the verb when it raised to v. Among the reasons Kishimoto gives for proposing that the –*kata* construction involves the vP is that the external argument shows up, as in the case of (5) (*John-no*), which signals the occurrence of the small “v”, hence vP.

It is crucial in Kishimoto’s analysis that –*kata* selects for vP, not TP. An obvious reason is that tense never shows up in this construction. Furthermore, the lack of T is tied to an important observation that Kishimoto makes, namely, that there is no scrambling in this nominal construction. The following is taken from Kishimoto (2006:789).

(6)a. John-no hon-no yomi-kata
   John-GEN book-GEN read-way
   ‘the way of John’s reading books’

b. *hon-no John-no yomi-kata
   book-GEN John-GEN read-way
   ‘the way of John’s reading books’
Kishimoto argues, following a number of studies, that A-movement scrambling is triggered by the EPP feature on T (Kishimoto 2001, Kitahara 2002, Miyagawa 2001, Tsujioka 2001). In Miyagawa (2001), for example, I argue for the following structures for the two orders, SOV and OSV.

(7) a. \[[TP \text{Taro-ga}_i \ [vP \text{t}_i \text{hon-o} \ yonda]]\]
   Taro-NOM book-ACC read
   ‘Taro read a book’

   b. \[[TP \text{hon-o}_i \ [vP \text{Taro-ga} \text{t}_i \ yonda]]\]
   book-ACC Taro-NOM read

In both, something occurs in Spec,TP: in (a) it is the subject, while in (b) the object has moved to this position, an idea inherited from Kuroda 1988, allowing the subject to remain in situ in Spec,vP.\(^2\) I argued that this requirement that something must occupy Spec,TP receives a natural account under the assumption that T has an EPP feature, which forces T to have a specifier (Chomsky 1981, 1995; see Alexiadou and Anagnostopoulou 1998 for arguments for the universality of the EPP on T). This approach to scrambling presumes that (A-movement) scrambling can only occur in the presence of T, and, as Kishimoto notes, this leads to the prediction that in the –kata construction, there should be no scrambling, a fact attested by the minimal pair in (6) above. I will return to this point in the next section.

\(^2\)Koizumi and Tamaoka (2010) give experimental evidence for this analysis that when the object precedes the subject, the subject may stay in Spec, vP.
4. Ditransitives

In this section, I will briefly summarize the arguments for the dual-base analysis given in Miyagawa and Tsujioka (2004). In the literature, we find two different approaches to the ditransitive construction in Japanese. I will briefly introduce the issues, and in the sections to follow, we will look to see what the –kata construction can tell us about ditransitives in particular and syntactic nominalization in general.

The so-called “standard” analysis assumes that there is only one underlying structure associated with ditransitives, and this underlying structure has the order goal-theme.

(8) Taro-ga Hanako-ni tegami-o okutta.
   Taro-NOM Hanako-DAT letter-ACC sent
   ‘Taro sent Hanako a letter.’

The other order of theme-goal, shown below, is, in this standard approach, the result of scrambling.

(9) Taro-ga tegami-o Hanako-ni okutta.
    Taro-NOM letter-ACC Hanako-DAT sent

Hoji (1985) gives arguments based on quantifier scope, bound variable, and others in favor of the standard analysis.

In contrast, Miyagawa and Tsujioka (2004), based in part on Miyagawa (1997), propose that there are two distinct argument structures associated with ditransitive predicates. In one the goal has a possessive meaning, which means that the referent of the goal is most naturally an animate entity, although an inanimate entity can occur if
it can be interpreted as being composed of humans as in the case of “committee,” “company,” and so forth. This “possessive” goal is a DP (or NP). The other type of goal is locative and, as such, has no implication that it has to be animate. The category of this goal is PP. This possessive/locative bifurcation for the goal in ditransitives is commonly found among languages of the world, including in English, where we find the double object (John sent Mary a letter) and the dative constructions (John sent a letter to Mary). As Miyagawa and Tsujioka (2004) note, there are a number of parallels between the Japanese ditransitives and the English double-object and dative constructions. I will note two here.

The goal in a double object construction is possessive in nature (e.g., Bresnan 1978, 1982, Harley 1995, Mazurkewich and White 1984, Pinker 1989). The following is taken from Bresnan (1978).

(10) a. I sent the boarder/*the border a package.
   b. I sent a package to the boarder/the border.

The double-object example shown in (a) only allows the animate “boarder” to occur in the goal position, while the dative example shown in (b) allows either the animate “boarder” or the inanimate “border.” We can see that the goal in the double object is a DP while the goal in the dative is a PP (to). Miyagawa and Tsujioka note that the same distinction based on animacy is found in Japanese. They focus on this distinction as manifested in the phrasal type, DP or PP, using the numeral quantifier to establish the type of phrase. To set the stage, as noted by Shibatani (1978), floated numeral quantifiers are only possible off a DP.
(11) a.  Taroo-ga mati-o futa-tu otozureta.

    Taro-NOM town-ACC 2-CL visited.

    ‘Taro visited two towns.


    people-NOM town-from 2-CL came

    Intended: ‘People came from two towns.’

In (11a), the object *mati-o ‘town-ACC’ is a DP, and it allows the numeral quantifier
*futa-tu ‘2-CL’ to be in the floated position following it, while in (11b) *mati ‘town’ is
inside a PP, so that *mati cannot be construed with the floated numeral quantifier.

Returning to the ditransitive construction, note below that the goal, whether
animate or inanimate, may occur in the same order relative to the theme.

(12) a.  Taroo-ga gakusei-ni nimotu-o okutta.

    Taro-NOM student-DAT package-ACC sent

    ‘Taro sent students a package.’

b.  Daitooryoo-ga kokkyoo-ni heitai-o okutta.

    president-NOM border-DAT soldiers-ACC sent

    ‘The president sent soldiers to the border.’

These two examples appear to be completely parallel, but when we put it under the
numeral quantifier test, we can see that the phrasal category of the two goal phrases is
different.
As we see in (13a), it is possible to have a floated numeral quantifier with an animate goal, but not with an inanimate goal ((13b)), clearly indicating that there are two kinds of goals, hence two distinct argument structures. There is nothing inherently wrong with the meaning of (13b), as we can see by the fact that if we change the goal to a non-floated version (*daitooryoo-ga kokkyoo-ni futa-tu heitai-o okutta.*), the sentence becomes fine. Obviously, this means that the “dative” particle –ni has two existences, one a case marker, the other a postposition, a bifurcation noted earlier by Sadakane and Koizumi (1995).

The second parallel between Japanese ditransitives and the English double object/dative constructions is quantifier scope. As Hoji (1985) and others have noted, in the goal-theme order, the scope of quantifiers is unambiguous, while the other order, theme-goal, leads to ambiguity.

(14) a. Taroo-ga dareka-ni dono-nimotu-mo okutta.

‘Taro sent someone every package.’
What I wish to focus on is the lack of ambiguity in (a) (see footnote 1 for a comment about the ambiguity of (b)). Note that the goal here is animate, thus inviting an interpretation of possession. As Miyagawa and Tsujioka note, however, if the goal is changed to inanimate, the judgment changes.

(15) Taroo-ga dokoka-ni dono-nimotu-mo okutta.

Taro-NOM some place-to every-package sent

‘Taro sent every package to some place.’

In this example, despite being in the goal-theme order, we obtain ambiguity of scope. This parallels English examples relative to scope (see Aoun and Li 1989, Bruening 2001, Pesetsky1995).

(16) a. Mary sent someone every book. some > every, *every > some

b. Mary sent something to every student. some > every, every > some

The double object construction only allows surface scope, while scope ambiguity obtains in the dative construction. This parallels the Japanese examples, in which the animate-goal construction does not evidence ambiguity, while the “dative” construction, which is forced by the occurrence of the inanimate goal, leads to scope
ambiguity. I will not give the analysis for the lack/presence of scope ambiguity (see, for example, Bruening 2001, Marantz 1993, Pesetsky 1995, among others). I simply note that the scope facts in Japanese match the double-object and dative constructions in English, thereby giving further evidence for the dual-base analysis.

To account for these two argument structures, Miyagawa and Tsujioka adopt the applicative-head analysis of Marantz (1993) and Pylkkänen (2002). As originally noted by Marantz, the DP goal argument is an “added on” argument; this sort of “extra” argument is typically found in the languages of the Bantu being introduced with an applicative head. For the DP “goal” argument, Miyagawa and Tsujioka give the following structure from Marantz (1993), which they call the “high goal.”

(17)

The high goal “students” is introduced by the applicative head $V_1$, which in turn selects $VP_2$ (see Pylkkänen 2002 for a different structure). For the “low” PP goal,

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3See Miyagawa and Tsujioka (2004) on the possible ambiguity even for goal-theme orders where the goal is animate.
again, the structure is adopted from Marantz (1993) (see also Larson 1988, Pesetsky 1995 for relevant discussion).

(18) to-dative (Marantz 1993)

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<table>
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<tr>
<th>vP</th>
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<td>P</td>
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<tr>
<td>students</td>
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The “low” PP goal “to students” occurs within the VP headed by the ditransitive verb, making it an argument of the verb. Here the order is theme-goal, but in Japanese, the order can also be goal-theme even for a low goal. In fact, the “controversy” between the standard approach (e.g., Hoji 1985) and the dual-base approach (e.g., Miyagawa and Tsujioka 2004) is not about word order per se. While word order does come into play (see below for discussion of this), the principal difference is whether one recognizes single base (standard) or dual base (double-argument-structure).

As a demonstration of the two types of goals that exist in Japanese, Miyagawa and Tsujioka note that, for some people at least, it is possible for both the high goal and the low goal to occur simultaneously. (Some find it easier with –e instead of –ni on the low goal; also, having an element in the low goal that is coreferential with the high goal appears to improve the example, a point that Richard Larson noted to me).
(19) Taroo-wa Hanako-ni hon-o kanozyo-no-kenkyuusitu-ni okutta.
    Taro-TOP Hanako-DAT book-ACC she-GEN-office-to sent

    ‘Taro sent Hanako a book to her office.’

This sentence means that Taro sent a package to Hanako’s office, with the intention that Hanako will come to possess it.4 Hanako does not even need to be in her office.

While not all speakers accept (19) (the same split in judgment is found with English speakers for the parallel English examples), many do accept it with varying degrees of hesitation, from “fine” to “awkward.” One point that Miyagawa and Tsujioka note is that even for those who accept (19), the following, in which the low goal occurs higher than the high goal, is unacceptable. I have changed the order of “Hanako” and “she” to avoid backward pronominalization.

(20) *Taroo-wa Hanako-no-kenkyuusitu-ni kanozyo-ni hon-o okutta.
    Taro-TOP she-GEN-office-to she-DAT book-ACC sent

    ‘Taro sent Hanako a book to her office.’

This indicates that the “high” DP goal occurs high in the structure, which, in the two-argument-structure approach, means that it is introduced in that position by an applicative head, while the low goal occurs low in the structure. What (20) indicates is that this hierarchy cannot be violated even by something as common in Japanese as

4Harley (1995), for example, argues that the double object verb contains an abstract have. On this assumption, the double-goal construction in (19) is, in a way, predicted from Takezawa’s (2001) study of possessive construction with –aru ‘have’. As he notes, this possessive verb may allow both a possessor and a location.

(i) Taroo-ni Hakone-ni bessoo-ga aru.
    Taro-DAT Hakone-in villa-NOM have

    ‘Taro has a villa in Hakone.'
scrambling. In fact, the example becomes odd even if the theme is moved higher than
the high goal (see Miyagawa and Tsujioka 2004 for one case in which an example like
(21) sounds only mildly awkward).\(^5\)

(21) ?*Taroo-wa hon-o Hanako-ni kanozyo-no-kenkyuusitu-ni okutta.

   Taro-TOP book-ACC Hanako-DAT she-GEN-office-to sent

   ‘Taro sent Hanako a book to her office.’

This has an immediate consequence for word order. In a “normal” sentence
with just one goal, the goal and the theme may occur freely in either order, goal-theme
or theme-goal. In the goal-theme order, the goal is likely the high goal, unless it is
inanimate. However, in the theme-goal order, the goal must be the low goal, because
the theme cannot occur above the high goal. This is true regardless of whether this
goal is animate or inanimate.\(^6\) In the “normal” goal-theme/theme-goal examples, this
point cannot be detected, but when we put both the high and low goals in the same
sentence, we can see the restrictions on word order clearly. Thus, as we see below, for

\(^5\) According to Ito (2006-2007), only certain types of ditransitives allow both of the
goals to surface in the same sentence; these are what Matsuoka (2003) calls “pass-
type” ditransitive verbs. See Ito’s work for elaboration. Ito notes that for him, an
example such as (21), in which the accusative theme occurs before the high goal, is
fine. This may be a case of a special A\(^5\)-movement noted in Miyagawa and Tsujioka
constructions.

\(^6\) This has an important consequence for the effects of quantifier scope in ditransitive
constructions. As noted earlier, the theme-goal order leads to quantifier scope ambiguity,
which Hoji (1985) attributes to movement of the theme across the goal. However, what we
observed is that the goal in the theme-goal order must be the low goal, which would make this
order comparable to the English dative construction. As noted earlier, the English dative
construction has scopal ambiguity, although English does not have scrambling. A view that
English in fact does have some such movement is Takano (1998). In any case, it is clear that
we do not have the final word on the source of the scopal ambiguity.
those who accept the two-goal construction, the order is: agent – high goal – (low goal) – theme – (low goal) – verb.

(22) Taroo-wa Hanako-ni (kanozyo-no-kenkyuusitu-ni) hon-o
    Taro-TOP Hanako-DAT she-GEN-office-to book-ACC
    (kanozyo-no-kenkyuusitu-ni) okutta.
    she-GEN-office-to sent
    ‘Taro sent Hanako a book to her office.’

This predicts that the goal in the them-goal order is always a PP, something already noted in Miyagawa (1997).7

    Taro-TOP friends-DAT 5-CL CD-ACC sent
    ‘Taro sent five friends a CD.’

b. ???Taroo-wa CD-o tomodati-ni go-nin okutta.
    Taro-TOP CD-ACC friends-to 5-CL sent

5. –Kata construction and ditransitives

Let us return to the –kata construction and see what it can tell us about the ditransitive construction. As noted earlier, one important observation that Kishimoto makes is that there is no scrambling in this construction, which means that whatever order we find in this construction is the base order. With this assumption in mind, let

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7See Ito (2006-2007) for different judgment on (23b). If the movement of the accusative theme phrase is by A’-movement (see Miyagawa and Tsujioka 2004), it is possible to have a reasonably grammatical structure even for (23b), although such an A’-movement requires a special stress pattern.
us consider the ordering of the goal relative to the theme. We saw that the high goal must always occur to the left of the theme and the low goal, a point we will take up below. But what about the low goal? As we saw in (22), the low goal is free to merge either before or after the theme. Note the following pair from Kishimoto (2006:807), which provides further evidence for this point from the –kata construction.

(24) a. koinu-e-no esa-no atae-kata
    puppy-to-GEN food-GEN give-way
    ‘the way of giving food to a puppy’
b. esa-no koinu-e-no atae-kata
    food-GEN puppy-to-GEN give-way
    ‘the way of giving food to a puppy’

The occurrence of the postposition –e on the goal in both ensures that we are dealing with a low goal, that is, a PP. The fact that in the –kata construction, either order is possible suggests that the PP “low” goal may merge freely on either side of the theme.

Turning to the high goal, this is a DP argument, and as noted by Kageyama (1993), Sugioka (1992), Ito and Sugioka (2002) as well as Kishimoto (2006), argument DPs in nominalization do not appear with case markers such as the nominative, dative, or accusative, but rather, it appears solely with the genitive marking.8 The following pair is from Kishimoto (2006:791).

(25) a. John-no koinu-no esa-no atae-kata
    John-GEN puppy-GEN food-GEN give-way

8The particle ni, which has many existences, including the dative case, the postposition “to/from/at”, temporal marking “at” and so forth, never occurs in nominals with the genitive, a point that, as far as I know, was first observed by Harada (1976).
‘the way of John’s giving food to a puppy’

b. *John-no esa-no koinu-no atae-kata

John-GEN food-GEN puppy-GEN give-way

‘the way of John’s giving food to a puppy’

The ungrammaticality of the second example ((b)) is predicted. In this example the goal follows the theme, and this goal is marked solely with the genitive, which would make it a DP argument, a high goal. As we saw in (21) - (23), however, the goal that occurs after the theme can only be a low goal, thus, a PP, so that it must bear the postpositional phrase –e ‘to’ along with the genitive marker. (25b) would be fine if the goal has –e as well as the genitive, as we already observed in (24b).

(25a) also appears to be in accordance with Miyagawa and Tsujioka: the goal precedes the theme and it is animate, both pointing to the possibility that this is a high goal, hence compatible with occurring solely with the genitive marking given its DP status. But is (25a) grammatical? My reaction to it, and that of several native speakers I consulted, is that (25a) does not sound natural. Yoko Sugioka noted (personal communication) that there is one possible interpretation of (25a) that might render it grammatical, though still awkward. It is a reading where the “core meaning” is ‘the way of giving food’, and koinu-no ‘puppy-GEN’ is in some modificational relation to this core meaning, with one possible relation being that the puppy is the recipient of ‘way of giving food’. ‘Puppy’ here modifies the entire phrase, ‘the way of giving food’, and is not an argument of ‘give’.
Whether one can perceive this special interpretation or not, (25a) as originally intended by Kishimoto appears to be ungrammatical. Other examples to confirm this are given below; (a) gives the high goal, while (b) provides the low-goal counterpart.

(26) a. *Hanako-no John-no MIT-no susume-kata

Hanako-GEN John-GEN MIT-GEN recommend-way
‘the way of Hanako’s recommending MIT to John’

b. Hanako-no John-e-no MIT-no susume-kata

Hanako-GEN John-to-GEN MIT-GEN recommend-way
‘the way of Hanako recommending MIT

(27) a *Itiroo-no Hanako-no nimotu-no okuri-kata

Ichiro-GEN Hanako-GEN package-GEN send-way
‘the way of Ichiro’s sending a package to Hanako’

b. Itiroo-no Hanako-e-no nimotu-no okuri-kata

Ichiro-GEN Hanako-to-GEN package-GEN send-way
‘the way of Ichiro’s sending a package to Hanako’

(28)a. *Setuko-no Ziroo-no nyousu-no tutae-kata

Setsuko-GEN Jiro-GEN news-GEN convey-way
‘the way of Setsuko’s conveying the news to Jiro’

b. Setuko-no Ziroo-e-no nyousu-no tutae-kata

Setsuko-GEN Jiro-to-GEN news-GEN convey-way
‘the way of Setsuko’s conveying the news to Jiro’
To understand why a high goal is apparently not permitted in the –kata construction, let us look at English deverbal nominalization (Kayne 1984, Pesetsky 1995), which displays precisely the same pattern of grammaticality. In deverbal nominalization, the argument of the verb may surface inside an of-phrase or as the genitive of the resulting NP. The following are taken from Kayne (1984).

(29) a. examine the problem =>
        b. the examination of the problem
        c. the problem’s examination

The dative construction allows nominalization with the theme occurring inside of-phrase or as the genitive of the NP.

(30) a. present the ball to John =>
        b. the presentation of the ball to John
        c. the ball’s presentation to John

However, the double object construction resists nominalization, a fact that parallels the –kata construction in Japanese.

(31) a. present John the ball =>
        b. *the presentation of John of the ball
        c. *John’s presentation of the ball

Kayne concludes that the double object construction involves a small clause that contains both the goal and the theme. This is based on his observation that the small clause also fails to nominalize.

(32) a. believe Thilo handsome =>
b. *the belief of Thilo handsome

c. *Thilo’s belief handsome

Pesetsky (1995) gives an account of these nominalization facts by postulating an abstract preposition, which he calls “G” (for “Goal”), for the double object construction that is the counterpart to the overt preposition to in the dative construction.

(33) a. Double object (Pesetsky 1995:155-156) (I have labeled the nodes based on structures given in Pesetsky 1995:126-7)

b. to dative (Pesetsky 1995:174, slightly modified)

Pesetsky further assumes that G in the double object construction undergoes incorporation into the verb, which is similar to preposition incorporation we find in many languages (e.g., Baker 1988); the incorporation is triggered presumably by the fact that G is a dependent morpheme.
On this account, there are two different verbs derived in syntax, one for the double object, the other for the dative construction.\(^9\)

\[(35)\]  
\[
give_1 [G [V]]: \text{ double object construction} \\
give_2 [V]: \text{ dative construction} 
\]

To explain the nominalization facts, Pesetsky invokes Myer’s Generalization.

\[(36)\]  
\[
\text{Myer’s Generalization} \\
\text{Zero-derived words do not permit the affixation of further derivational morphemes.} 
\]

Because the double-object verb has undergone a derivation whereby the abstract \(G\) incorporates into it ([\(G[V]\)]), it is an instance of a zero-derived word, hence it cannot undergo further derivational processes such as nominalization. On the other hand, the dative-construction verb has no zero-morpheme that attaches to it in the normal course of derivation, hence there is nothing to prevent its nominalization.

Though somewhat different in structure, Pesetsky’s approach to the two constructions associated with ditransitive verbs is comparable to the applicative head approach in one crucial fact: in both, a phonologically null head (\(G\) in Pesetsky’s

---

\(^9\)Kitagawa (1994) was the first to propose a type of decomposition for the double-object construction in Japanese; he suggested that a double-object ditransitive verb decomposes into CAUSE and HAVE. See also Harley (1995).
approach, applicative head V in ours) occurs in the double object construction that introduces the goal, but in the dative construction, there is no such a null head. Just as with Pesetsky’s G, the applicative approach assumes that the verb and the applicative head come together, by verb raising (Marantz 1993, Pyllkänen 2002), resulting in the verbal complex [[V] applicative], as opposed to simply [V] for the dative construction.

We can see that Myer’s Generalization can also explain the absence of the “high” goal, applicative structure in the –kata construction while allowing the “low” goal, dative construction.

The analysis based on Myer’s Generalization does raise an issue with Kishimoto’s approach to the –kata construction. Recall that in his approach –kata selects a vP.

\[
(37) \quad \text{NP} \quad \text{vP} \quad \text{N} \\
\quad \text{John-no} \quad \text{v'} \quad \text{v_j} \quad \text{kata} \\
\quad \text{VP} \quad \text{t_j} \quad \text{yomi} \quad \text{v} \\
\quad \text{hon-no} \quad \text{t_i} \\
\]

Strictly speaking, this is a violation of Myer’s Generalization because the verb *yomi* picks up the phonologically null v. This null head should block further derivational processes such as nominalization.

A possible problem with the point above is that we find causative verbs built on structures that clearly have a “small” v, as in *tabe-sase-ru* ‘eat-cause-PRS’, which presumably has the structure *tabe-v-sase*. This is affixation of –(s)ase to an item that
contains the zero morpheme v. A point important to the present discussion is that Pesetsky himself reinterprets Myer’s Generalization in a way that does not always preclude affixation to a zero-derived item. He notes (p. 76-7) that the agentive nominalizer –er and the adjectivizer –able are exceptions to the Generalization. From this, Pesetsky proposes that Myer’s Generalization is not a blanket restriction against affixation to zero-derived items. Instead, it is a restriction encoded on specific derivational affixes, such as –ion, that prohibits them from attaching to items with a zero morpheme (pp. 83-93). Unlike the nominalizer –ion in English and –kata in Japanese, the causative morpheme –(s)ase in Japanese, like –er and –able, is not blocked from attaching to zero-derived items. Hence, while a nominalization construction with –kata or –ion cannot be built on an item that has a zero morpheme, –(s)ase can. Further evidence for this is that, while nominalization of a double-object ditransitive verb in Japanese is impossible, as we saw, such a ditransitive verb allows causativization.

(38) Syatyou-wa Taroo-ni buka-ni futa-ri kaiko-tuuchi-o
    president-TOP Taro-DAT subordinate-DAT 2-CL dismissal notice-ACC
    okur-ase-ta.

    ‘The president made Taro send two subordinates dismissal notices.’

The ditransitive verb okuru ‘send’ has been causativized; we can see that it is the double-object ditransitive because the goal appears with a floated numeral quantifier.
What is the structure of the –*kata* nominalization? Recall Kageyama’s (1993: 363) original proposal that adjoins V to *kata*.

(39)  
\[
\begin{array}{c}
\text{N} \\
\text{V} \quad \text{N} \\
\text{yomi ‘read’ kata}
\end{array}
\]

This is consistent with the Myer’s Generalization, since there is no zero morpheme that attaches to the verbal element *yomi* ‘read’. However, Sugioka (1992:60), who independently proposes V incorporation, gives convincing evidence that there is more than the V head involved in this nominalization; she proposes that *kata* takes VP. The following is Sugioka’s proposal for *tomodati-no hagemasi-kata* ‘the way of encouraging friends’.

(40)  
\[
\begin{array}{c}
\text{VP} \\
\text{N} \\
\text{tomodati} \quad \text{hagemasu} \\
\text{friend} \quad \text{encourage}
\end{array} \\
\begin{array}{c}
\text{NP} \\
\text{N} \\
\text{tomodati-no t} \quad \text{hagemasi-kata} \\
\text{way} \quad \text{-GEN}
\end{array}
\]

This is similar to Kishimoto’s approach, except that what *kata* selects is a VP, not a vP; Sugioka’s analysis is still consistent with the Myer’s Generalization. The evidence that Sugioka (1992:59) gives for her analysis is the fact that VP idioms can appear in the –*kata* construction.
The VP idiom we see here is *asi-o arau* ‘cut connection’ (lit. ‘leg-ACC wash’). I find this to be quite compelling, and I will assume it for the *kata* nominalization, but with one exception I will note below.

As shown above in (40), according to Sugioka, the VP is turned into an NP (the right side) when the verbal head incorporates into *kata*. To be fair to both Kishimoto and Sugioka, I should remind the reader that at the time that Sugioka was developing her analysis of –*kata*, small *v* had not made its way into the general theory, so “vP” would not have been even a possibility at the time. However, given Myer’s Generalization, our prediction is that even today, vP would not be possible because “*v*” would constitute a zero morpheme, and –*kata* nominalization does not attach to zero-derived items. This means that the “VP” analysis of Sugioka’s is the appropriate one even today.

This leaves the question of what to do with the “subject,” which would be introduced by “*v*” if it did exist.

One point that is important to note is that the “agent” here is strictly optional.

(41) bouryokudan-kara-no asi-no arai-kata

gang-group-from-GEN leg-GEN wash-way

‘the way to cut connection from a gang group’

(42) Hanako-no hon-no yomi-kata

Hanako-GEN book-GEN read-way

‘the way of Hanako reading books’

One point that is important to note is that the “agent” here is strictly optional.
In the sentential example in (a) without an overt subject, there is a clear sense that the subject is missing, but in the –kata construction in (b), which is also missing the subject, the example sounds complete with nothing missing from it for full interpretation, a point that Kishimoto also notes. A number of linguists have observed this phenomenon of optionality of arguments (not just subjects) in nominals (Dowty 1989, Grimshaw 1990, Higginbotham 1983, among others). On this basis, one possible account of the “subject” is to view it as modifying the entire –kata clause.

(44)

Under this analysis, this sentence means ‘Taro’s way of reading books’. “Taro” is most naturally interpreted as the agent of “read,” but on this analysis, that reading comes about indirectly by “Taro” modifying “way of reading books.” However indirect, the quasi-agent reading is sufficient to license subject honorification, for example, as shown by the grammatical subject-honorification –kata examples in

A problem with the analysis just presented is, as Kishimoto (2006: 776) notes, it is possible find subject honorification within the kata construction. The following are examples with a plain (no subject honorification) form and subject honorification, the latter taken from Kishimoto’s work.

(45) a. Suzuki sensei-no hanasi-kata

Prof. Suzuki-GEN speak-way

‘the way of Prof. Suzuki’s speaking’

b. Suzuki sensei-no o-hanasi-ni-nari-kata

Prof. Suzuki-GEN speak\textsubscript{HONORIFIC}-way

‘the way of Prof. Suzuki’s speaking’

Subject honorification morphology $o...ni$ nar wraps around a verb, as in $o$-hanasi-$ni$ nar ‘speak’ above, when the subject of the verb is socially superior to the speaker (Harada 1976). It presupposes the existence of such a subject in the structure, which suggests that in a structure such as (45b), ‘Prof. Suzuki’ is the external argument introduced by the ‘small’ v, entailing that in this structure kata selects vP. This seemingly contradicts the analysis above that what kata takes is a VP, not a vP, in order to respect the Myer’s Generalization. But is it a contradiction? There is one clear difference between kata examples with and without subject honorification. Recall from our discussion earlier that the example below, repeated from earlier, does not necessarily imply the existence of an agent.
(46) hon-no yomi-kata
    book-GEN read-way

    ‘the way of reading books’

However, *kata* nominals with subject honorification differs sharply in that there is a clear indication of an agent.

(47) hon-no o-yomi-ni-nari-kata
    book-GEN read\textsubscript{HONORIFIC}-way

    ‘the way of reading books’

In this example there is a clear sense that an agent is being referred to who is socially superior to the speaker. This, in turn, indicates that in the subject honorification example, *kata* necessarily selects a vP, not a VP. But how is that possible given the Myer’s Generalization? A reasonable solution is to assume that the subject honorification morphology itself spells out v, so that v is not a zero morpheme, and this enables the predicate to circumvent Myer’s Generalization, and assumption that is further supported by the fact that the subject honorification morphology appears inside tense in a sentence, hence it clearly occurs lower than T, hence plausibly as v.

    Prof. Suzuki-NOM book-ACC read\textsubscript{HONORIFIC-PAST}

    ‘Prof. Suzuki read a book.’

On the analysis we have seen, *kata* may take either VP or, as Kishimoto argued, vP. This is in principle a free option, unless vP is forced by an external factor, as we saw with the occurrence of subject honorification.
6. Further note on Myer’s Generalization

I will close out the chapter by looking briefly at an additional point about Myer’s Generalization and nominalization.

Pesetsky draws a parallel between the impossibility of nominalization of the double object construction (Kayne 1984) with a similar fact about deverbal nominals noted by Chomsky (1970) in ‘Remarks on nominalization’.

(49) a. John grew tomatoes (in his backyard).
    
    b. Tomatoes grew (in John’s backyard).

As noted by Chomsky, only the unaccusative in (b) allows nominalization.

(50) a. *John’s growth of tomatoes
    
    b. the growth of tomatoes

Chomsky (1970: 25) notes that the growth of tomatoes “has the interpretation of tomatoes grow but not of John grows tomatoes,” and gives the following derivations for the examples in (49) (Chomsky 1970:59).

(51) John grows tomatoes: John [+cause, grow] tomatoes

(52) Tomatoes grow: [s tomatoes grow]s

For the causative construction in (51), a natural way to conceive of the derivation is that it is syntactic word formation.

(53) John [+cause ] [ tomatoes grow]

This leads to two versions of grow, just as we saw that there are two versions of ditransitives, one with $G$ (double object) and the other without $G$ (dative).
What Pesetsky notes is that $grow_1$ contains the zero morpheme [+cause], which, under Myer’s Generalization, would block further derivation such as nominalization. This accounts for the ungrammaticality of (50a).

However, when we turn to the –kata construction, we see that causative verbs can appear freely (Kageyama 1993:358; I have changed the example to more directly demonstrate the point).

(55) yom-ase-kata

read-CAUSE-way

‘the way of making (someone) read’

This difference between English and Japanese is predicted: while [+cause] in English is represented by a phonologically null morpheme, which triggers Myer’s Generalization under nominalization, in Japanese it is overtly manifested by the causative morpheme -(s)ase, which avoids the effect of Myer’s Generalization, thereby allowing –kata nominalization to take place. This situation with the causative verb is different from the applicative construction, in which the applicative head is a zero morpheme in both languages, leading to a failure to nominalize in both languages.
7. Conclusion

In this chapter, I gave evidence from nominalization for the dual-base analysis of ditransitive verb construction in Japanese. Using insights from Kishimoto’s (2006) work as a starting point, what we saw is that the kata nominalization can occur with the low-goal construction, which corresponds to the dative construction in English, while the nominalization is blocked with high-goal construction, which corresponds to the double-object construction in English. I argued that the analysis based on Myer’s Generalization (Pesetsky 1995) makes the correct predictions for the array of data found in Japanese, and that this approach further predicts that the kata construction may occur with a vP, as Kishimoto argued, but, alternatively, with a VP, as originally proposed by Sugioka (1992)

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