e-ISSN: 2615-0840 p-ISSN: 2597-5277 DOI: https://doi.org/10.18196/jjlelv5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

Nominalization and Its Role in the Formation of Noun Phrase in Japanese

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Reviewed: 20 June 2021, Revised: 26 July 2021, 3 August 2021, Accepted: 11 August 2021

Abstract

This study sheds light on the yields of nominalization and their role in the formation of Noun Phrases in Japanese by following a methodology in an envisaged study framework to be called nominalization framework, which considers nominalization to be a morphosyntactic process. The nominalization as a process operates on the linguistic constituent to transform it into a derivative/transformed constituent. It brings forth derivative nouns by operating on the words other than nouns involving the process of derivation as well as action nominal constituent and nominal clause respectively involving the simultaneous process of desententialization and transformation, and the process of reduction of clausal properties from a finite clause. It fundamentally the prevalent nominalizer approach, which Bound-Noun-Headed nominals by juxtaposition of a dependent constituent with the nominalizers, e.g. no and koto. The derivative noun, bound-noun-headed constituent, action nominal constituent as well as nominal clause together form a grammatical category called nominals, most of which partake both as the head or the adnominal in the formation of NP involving certain grammatical rules.

Keywords: Nominalization; Noun Phrase; Japanese

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

Abstrak

(Nominalisasi dan Perannya dalam Pembentukan Frase Kata Benda dalam Bahasa Jepang) Penelitian ini menyoroti hasil nominalisasi dan perannya dalam pembentukan frase kata benda dalam bahasa Jepang dengan mengikuti metodologi dalam kerangka studi yang disebut kerangka nominalisasi, dimana nominalisasi merupakan suatu proses morfosintaksis. Nominalisasi sebagai suatu proses yang beroperasi pada konstituen linguistik vang kemudian mengubahnya meniadi turunan/transformasi. Hal inilah yang melahirkan kata benda turunan yang terjadi dari kata-kata selain kata benda yang melibatkan proses derivasi/turunan serta konstituen nominal tindakan dan klausa nominal yang masing-masing melibatkan proses desentensialisasi dan transformasi simultan, dan proses pengurangan sifat klausa. Proses ini pada dasarnya berbeda dari pendekatan nominalisasi pada umumnya, yang menurunkan nominal kata benda terikat dengan penjajaran konstituen dependen dengan nominalizers, misal -no dan -koto. Kata benda turunan, kata benda terikat, konstituen nominal tindakan serta klausa nominal bersama-sama membentuk kategori gramatikal yang disebut nominal, yang sebagian besar memiliki peran baik sebagai kepala atau adnominal dalam pembentukan frase kata benda (NP) yang mengikuti aturan tata bahasa tertentu.

Kata kunci: Nominalisasi; Frase nomina; Bahasa Jepang

INTRODUCTION

Nominalization is found to be a productive morphosyntactic process, though the Japanese linguists describe it to be a matter of juxtaposition of a linguistic constituent and a particle or bound-noun. In these studies, the linguists describe 'samu' and 'Gakusei ga ronbun wo kaku (The student writes an essay.)' respectively in juxtaposition with a formative, e.g. sa and a bound-noun, e.g. koto constitute a derivative noun, samusa (coldness) at the lexical level (Wrona, 2011 and Hanna, 2018) and transformed constituent, ronbun wo kaku koto (that student writes an essay) at the syntactic level (Makino, 1968; Nakau, 1973; Song, 1982; Horie, 1997; Maynard, 1997; and Tohru, 2012) as follows.

i) samu+sa = samu-sa (coldness)

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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ii) Gakusei ga ronbun o kaku+koto = Gakusei ga ronbun o kaku koto (that student writes an essay)

In the former, the adjective, i.e. *samui* (cold) turned into a deverbal noun, while in the later, the constituent *Gakusei ga ronbun wo kaku* in juxtaposition with the nominalizer, i.e. *koto* yields a *bound-noun-headed* constituent, i.e. *'ronbun wo kaku koto'*. The type of approach followed in these prevalent studies has been known as nominalizer-based nominalization approach or nominalizer approach, because it employs the nominalizers including formatives, e.g. *sa* and bound-nouns, e.g. *koto*.

However, the recent advance in linguistics has come up with a new description on *nominalization*, which posits it to be a morphosyntactic process that turns forms/constituents into noun-like forms/constituents. The yields of the nominalization are the derivative forms or transformed constituents which partake in the formation of Noun Phrase (NP). Given this advancement in the studies of nominalization, the researcher demonstrates the formation of NP involving the processes of nominalization following a methodology complying with the nominalization framework. To do that, the researcher firstly describes the role of nominalization in the formation of NP and then he will expound the dynamism of nominalization involving the components of nominalize (the source of nominalization), nominalizer (the means of nominalization) and nominal (the yield of nominalization) in the nominalization framework. Subsequently, the researcher derives the nominal in Japanese in compliance with the nominalization framework, and then the researcher shows their partaking in the formation of NP in Japanese.

e-ISSN: 2615-0840 p-ISSN: 2597-5277

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Nominalization as an Accompanying Strategy of Formation of Noun Phrase

The NP is a kind of phrase that has a noun (or indefinite pronoun) as its head, which as a linguistic unit performs the same grammatical function as the noun does.

A typical NP is formed out of a noun as the head of a phrase together with zero (Ø) or more dependent constituents of various types as it's adnominal. The relative position and order of a dependent adnominal is a typological parameter, on which an NP turns on. The adnominal constituents in an NP vary in structure and function, which are of four types: morphological, lexical, phrasal, and clausal, of which the morphological one tends to be a smaller, while the clausal one tends to be a larger (Givon, 2001; 1-3). The constituent of a typical NP is as follows.

NP Continent: Dem Quan GEN (NP -GEN/POSS) (Adj phrase) Verbal clause Head-NOUN

[Here, the adnominal in the parentheses '()' indicates that it allows recurrence. The element separated by '/' indicates that the modifiers are mutually exclusive.]

An NP incorporates the yields of nominalization (designated as Nominal in the upcoming section) including derivative and transformed constituent involving certain grammatical rules. Hence, an NP owes many of its complexity to the process of nominalization.

Some studies address the issues of nominalization and that of the NP in Japanese separately, while none of them focus on how the process of nominalization contributes to the formation of NP. For example, the study on NP by Matsumoto (1997) is one of this kind, which construed clausal noun modifying constituent (NMC) in terms of semantic-pragmatic criteria, that averted the rationale of nominalization framework. Thus, the proposed

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e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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nominalization framework is of worth to provide a methodology to derive the

yields of nominalization and state the role of them in the formation of NP.

Articulating Nominalization Framework

This study offers a framework being informed with the

morphosyntactic theories formulated by Koptjevskaja-Tamm (1993),

Lehmann (1988), and Givon (2001), which posited nominalization to be a

morphosyntactic process. It is a process that involves source, agent, means

and yield in order to make it happen. For the convenience, the components:

source, agent and yield of nominalization will be labelled as Nominalizee,

Nominalizer and Nominals, each of which will be abbreviated in acronyms as

denoted in the corresponding parentheses as follows.

Nominalizee (NLZ)

The NLZs are the base/source constituents distinguished into words and

clauses on which a process of nominalization is operated. It involves the

source (or base) word, e.g. samui (cold) [NLZ-1] at the lexical level and the

source (or base) constituent, e.g. Gakusei ga ronbun wo kakimasu (The

student writes an essay.) [NLZ-2] at the syntactic level on which the

nominalizations are operated.

Nominalizer (NLR)

The NLRs are the agent of nominalization distinguished into bound

morpheme, e.g. sa or 0 (\emptyset morpheme) comprising the set of nominalizers

NLR₁ (as in section-3) and bound noun, e.g. no and koto which assist the

morphosyntactic process of nominalization to yield respectively a derivative

noun and a transformed constituent.

Faguire, R. K. (2021). Nominalization

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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Nominal (NML)

The NMLs are the yields of morphosyntactic processes of nominalization are a) derivative noun e.g. *samu-sa* at lexical level and b) transformed constituent, which further distinguished into action nominal constituent (ANC), e.g. *gakusei no ronbun-kaki* (student's writing of an essay) [NML-3a] and nominal clause, e.g. *gakusei ga ronbun o kaku* (that student writes an essay) [NML-4] at the syntactic level, which together form a grammatical category to be called nominals

Thus, the yields of nominalization are the NMLs which either as a Head-Noun or as a dependent contributes to the formation of an NP. Hence, the parameters associated with the morphosyntactic process of nominalization includes nominalizing rules, nominalizee (NLZ), nominalizer (NLR) and nominals (NML) which depicts a mechanism of nominalization as presented in the Figure 1.

Nominalization Framework

Nominalizee (source/base)

Nominalization (process)

Nominalizer (agent)

Figure 1. Nominalization Framework at a Glance

As we come through, the nominalization involves either the morphosyntactic process of derivation or that of the transformation, the

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e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

yields of which are NMLs. Hence, the present framework of nominalization

resolves the confusion pervading over the process-product dichotomy, which

has been seen to arise over the nominalizer approach in the volume titled

Nominalization in Asian Languages: Diachronic and Typological Perspective by

Yap et al. (2011).

Detracting the Prevalent Nominalizer- Approach in Japanese

The framework introduced in the foregoing section offers a kind of

morphosyntactic process of nominalization, which detracts the Nominalizer-

approach.

It employs NLRs as agents of nominalization in yielding NMLs, though

an NLR is not always necessary in order to occur a morphosyntactic process

of nominalization. Japanese language is abounding with the NLR-based

nominalization studies. Over the last 5 decades, several linguists, mainly

Japanese linguists, have come with the studies to address the issue of

nominalization involving NLRs. Wrona (2011) and Hanna (2018)

respectively employs nominalizing morpheme -sa and -sa, -sei in deriving

lexical NMLs. Similarly, other linguists employed the NLRs [as given in the

parentheses corresponding to the name of linguists] in deriving transformed

constituents at the syntactic level include Makino (1968) [no, koto], Nakau

(1973) [no, koto, tokoro], Song (1982) [no, koto, tokoro] and Horie (1997) [no,

koto, \emptyset (*zero*)]. The bound morphemes (N1) employed for the derivation of

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e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

lexical NMLs and bound-nouns (N2) employed for the derivation of bound-noun-headed constituents respectively form two different sets of NLRs as follows.

 $NLR_1 = \{sa, sei \text{ and } mi, \text{ etc.}\}$

 $NLR_2 = \{\emptyset, no, ya, koto \text{ and } tokoro, \text{ etc.}\}.$

Hence, the NLR-based nominalization approach describes the process of formation of derivative nouns or that of bound-noun-headed constituents respectively by affixation of a lexical morpheme, e.g. *sa* to a lexical root, e.g. *samu* and the bound-noun, e.g. *koto* to the clausal constituent, e.g. *Gakusei ga ronbun wo kaku*, as nominalization are as follows.

a) Derivative noun (root form of adj. +NLR₁)

(NML-1a) samu+sa= samu-sa Coldness

b) Bound-Noun-Headed NML (Verbal clause +NLR₂)

(NML-2a) Gakusei ga ronbun wo kaku +koto Student NOM Essay ACC write-COMPL NML Writing of an essay by a student

Nakau (1973) has conducted some studies in line with the NLR-based approach, who describes an NLR to bear a nominalizing function, which assigns nominalization to an NP with a nominalizer, e.g. *no* and *koto* (NLR-2) on its head as follows.

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DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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Bound-Noun-Headed NML (Verbal clause +NLR₂)

(NML-2b) kujira ga Whale TOP honyuu doobutsu de aru mammals

no

NLR

That a whale is a mammal

Similarly, Horie (1997) describes nominalization to be a strategy of

using the NLRs in the formation of a clausal constituent with the bound-noun

on its head.

Though, the derivation of a deadjectival noun, e.g. samu-sa accords

with the rationale of morphosyntactic process of nominalization, the

derivation of Bound-Noun-Headed constituents, which we came through, are

impoverished by the rationale of proper nominalization, but still influential

described in **J**apanese linguistics. Chen (2013,151) that p.

Bound-Noun-Headed constituents (derived by NLR-based approach) did not

match with the NML constituents derived by involving morphosyntactic

process of nominalization. Hence, these are found to be impoverished by the

rationale of proper morphosyntactic criteria. In the similar line, the

NLR-based approach follows the categorization of nominalization, which put

the category names after the name of NLRs, for example *no*-nominalization

and koto-nominalization (Maynard, 1997 and Tohru, 2012) do not comply

with the rationale of nominalization of the proposed framework.

To resolve the above-said flaws of NLR-based approach, this study

describes morphosyntactic processes of nominalization by incorporating all

the terminology of nominalizations: NLZ, NLR, and NML in an interactive

Faguire, R. K. (2021). Nominalization

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

https://journal.umv.ac.id/index.php/jjlel/issue/view/797

manner, so that the nominalization vis-à-vis formation of the NP can be

described systematically.

METHODOLOGY

This study investigates the formation of NPs by incorporating the yields

of nominalization. Thus, it involves two-fold grammatical operation in

phases: derivation of NMLs from NLZs involving nomination as well as the

formation of NPs by incorporating NMLs in them as a linguistic unit.

In the first phase of this study, the researcher derived three different

kinds of NMLs: Lexical NMLs and ANCs by investigating the nominalization

processes operating over different kinds of NLZs. The nominalization

processes that operate on lexical forms are the grammatical processes of

conversion and derivation at the lexical level, while those that operate on the

sentences are dual processes of transformation and derivation and reduction

in certain causal properties of clauses at the sentence level. In this regard, the

researcher derived different types of NMLs by investigating the

nominalization processes operating over different kinds of NLZs with the

support of necessary linguistic evidence. These grammatical processes are

conversion and derivation which operate over the words other than the noun,

i.e. verb and adjective at the lexical level and bring forth lexical NMLs.

Additionally, the researcher derived ANCs and Nominal clauses by

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investigating the dual processes of transformation, and derivation and

reduction in certain clausal properties of clauses operating over the NLZs at

the sentence with the support of linguistic evidence. In this phase, the

researcher accumulated all the yields of the nominalization including Lexical

NMLs and ANCs, and Nominal clauses, which are as good as Noun and good

enough to partake in the formation of NPs.

Then, in the second, i.e. last phase, the researcher showed how each of

the lexical NMLs, ANCs, and nominal clauses either as a Head or as an

Adnominal partake in the formation of NPs with the support of linguistic

data.

RESULTS AND DISCUSSIONS

Illustrating Nominalization as Morphosyntactic Process in Japanese in

the Nominalization Framework

Recent advance in nominalization has come up with the description of

morphosyntactic process of nominalization in a wider perspective. It

envisages a framework of nominalization that bears an overriding premise

over the nominalization approach. In this approach, as we came through the

section-3, the NLZ, NLR, and NML are respectively held to mean a source (i.e.

source of form or constituent), agent and product. Thus, an NML is a product

of the morphosyntactic process of nominalization which is formed out of the

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e-ISSN: 2615-0840 p-ISSN: 2597-5277

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combination of NLZ and NLR involving either a morphosyntactic processes of

derivation or that of transformation.

Nominalization

In traditional thought on linguistics, nominalization refers to the

creation of a noun from the verbs or adjectives. It is concieved as a

transctegorial operation that derives NMLs from non-nominals (Comrie &

Thompson, 1985). Thus, conventionally, it is used to mean derivational

process has recently been used to cover two more processes: transformation

and reduction in the finiteness of a clause, which respectively yield i) an NP

with deverbal/deadjectival noun on its head termed as an action NML

constituent (ANC) or, and ii) desentential clause or NML clause involving the

process of structural/functional adjustment. In this way, it is taken to grant a

set of three different but related processes: derivation, transformation, and

reduction in the finiteness of a clause. The morphosyntactic processes

operate on the lexical level and clausal level are respectively termed as lexical

nominalization and clausal nominalization as follows.

Lexical Nominalization

Lexical nominalization is a productive process, by means of which a

word belonging to other than the noun class yields a derivative noun as in the

constituent with or without some morphological adjustment. It is relatively

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less productive in Japanese as compared to that in English. Nishio (1961)

found only 30% -40% of verbs can be transformed into deverbal NMLs.

Clausal Nominalization

The clausal nominalization is a productive process, which operate on a

finite clause. The advocates of this perspective are functional-typologists, e.g.,

Koptjevskaja-Tamm (1933) and Lehmann (1988), who demonstrated that

nominalization existed in a constituent in degree to be signified with the

degree of finiteness of a clause. In this perspective, it involves a kind of

morphosyntactic process which can be seen as an epiphenomenon of the

desententialization process. It operates on the finite clauses to derive ANCs

as well as the NML clauses. In this line, Lehmann (1988) demonstrated that

the degree of nominalization can be seen as the gradual reduction of

sentential properties in a cline of desententialization inversely related to

substantiation. As the verbal/adjectival sentences undergo the process of

nominalization, they receive the constraints of clausal properties along the

Lehmann's cline of desententialization (1988, p. 200) as follows.

Constraints on/loss of illocutionary elements>constraints on/loss of mood/modal

constraints on/loss of tense and aspect>dispensability

complement>loss of personal conjugation/conversion of subject into oblique>no

polarity>conversion of verbal into nominal government>dispensability of

subject/constraints on complements

[Here, > represents *prior to* relation]

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e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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The cline of desententialization is a continuum showing the degree of

finiteness in a constituent in terms of the clausal properties by placing the

finite clause, i.e., a sentence at the extreme left end and an ANC like phrase at

the extreme right end. Therefore, the constituent towards the left end tends to

show finiteness containing all the required properties of an independent

clause and that towards right end tends to show an ANC like phrase with the

reduction of all properties of independent clause. Therefore, the degree of

achievement of nominalization by a constituent is conversely related to the

number of loss of clausal properties. Hence, the maximum loss of clausal

properties leads to the derivation of an ANC i.e., an NP with the derivative

verbal noun on its head. Shibatani (2009) demonstrated that the structural and

functional adjustment of a finite clause occurred through the elimination or

reduction of some sentential properties like illocutionary and modal

properties from the sentence. Baker (2011) proved that nominalization

existed in degree in a clause-like constituent in the cline of desententialization

of Sakha.

Hence, the clausal nominalization brings forth two different types of

NML constituents depending on the extent of reduction of clausal properties

from a finite clause (sentence) as it undergoes the nominalization process.

The complete nominalization at the syntactic level involves the simultaneous

process of derivation and transformation, which yields an ANC, i.e. NP with

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the derivative verbal noun on its head (NML-3). On the other hand, the partial

clausal nominalization involves the reduction of certain clausal functions of

the clause to transform a finite clause into a dependent clause (NML-4).

Nominalizee

The NLZs are the linguistic constituents on which the process of

nominalization are operated and turn themselves into NMLs. There are of

two types as follows:

i) Lexical NLZ that belongs to the word-class other than the noun-class on

which nominalization is operated to derive a derivative noun, e.g.

(NLZ-1a) Adjective, e.g. samu-i (cold)

(NLZ-1b) Verb, e.g. *odoru* (to dance)

ii) Clausal NLZ that belongs to the finite clause, i.e. a sentence containing all

the sentential properties, i.e. illocution, mood, tense and aspect, etc.

depending on which nominalization is operated and turns into NML, as for

example.

(NLZ-2) Gakusei wa ronbun

wo kakimasu.

Student NOM essay ACC write-PRS.AFF

The student writes an essay.

Nominalizers

The NLRs are the bound morphemes or bound nouns which assist the

morphosyntactic process of nominalization by affixation to the NLZ yielding

the NMLs. Though the NLR-based approach requires an NLR belonging to the

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https://journal.umy.ac.id/index.php/jjlel/issue/view/797

set of NLR₁/NLR₂ to derive a NML, the proposed framework of

nominalization does not necessarily employ NLRs in deriving a NML. It posits

that an NLR requires at the lexical level mostly get fused with the NMLs.

Nominalizers in De-adjectival Nominalization

According to the distributive morphology developed by Halle and

Marantz (1993), the lexical roots \sqrt{x} , e.g. samu are the NLZs which are little

different from the lexical categories, e.g. X=Noun, e.g. noun, verb and adverb,

etc. They get fused with the bound morphemes n, e.g. sa and consequently

yield lexical NMLs. Therefore, a lexical NML is formed out of a lexical root \sqrt{x}

and a bound morpheme of NLR₁ can be shown in a formula as follows.

NML= $X = \sqrt{x+n}$

Accordingly, an adjectivizer, e.g. i, an adverbializer, e.g. ku, a NLR, e.g. sa

and a verbalizer, e.g. garu being affixed to the root form, i.e. \sqrt{x} , e.g. samu

(root form of cold) derives a word X, e.g. adjective, adverb, noun and verb.

The morphemes affixed to the common lexical root \sqrt{x} sometimes form a

regular paradigm in Japanese as follows.

a) Adjective: \sqrt{samu} + adjectivalizer i = samui (cold)

b) Adverb : \sqrt{samu} +adverbalizer ku = samuku (coldly)

c) Noun : \sqrt{samu} +NLR sa = samusa (coldness)

d) Verb : \sqrt{samu} +verbalizer garu = samugaru (to feel cold)

Similarly, an adjectivizer, e.g. na, an adverbializer, e.g. ku and a NLR, e.g. sa being affixed to the root form, i.e. \sqrt{x} , e.g. kirei (root form of cold) derives a word X, e.g. adjective, adverb and noun. The morphemes affixed to the common lexical root \sqrt{x} sometimes form a paradigm in Japanese as follows.

- a) Adjective: \sqrt{kirei} + adjectivizer na = kireina (beautiful)
- b) Advberb: \sqrt{kirei} +adverbializer ni = kireini (beautifully)
- c) Advberb : \sqrt{kirei} +nominalizer sa = kireisa (beauty)

Therefore, an adjectival NLR can be shown by deducting \sqrt{x} from X, i.e. $X - \sqrt{x}$ (samusa—samu)=sa. Accordingly, $X = \sqrt{x} + NLR$ is the notation which provides a formula in combining the NLZ+NLR=samu+sa to derive an NML, i.e. an adjective samui. Hence, 'sa' is an adjectival NLR or nominalizing morpheme, which is affixed/fused with the root, i.e. \sqrt{x} , to form a derivative noun.

Nominalizers in Deverbal Lexical /Clausal Nominalization

The lexical nominalization brings forth NMLs out of verbs by conversion, and the clausal nominalization derives ANC and NML clause from the verbal sentence by transformation, both of which mark changes on the verb. However, the changes, which is marked on the verb is not realized with a separate NLR, rather they get fused with the verb. The changes appear in a paradigm of verbal inflection can be presented as follows.

- a) Irrealis form (mizen-kei), e.g. kaka (-nai)
- b) Continuative form (renyou-kei), e.g. kaki (-masu)
- c) Completive form (shuushi-kei), e.g. kaku d) Attributive form (rentai-kei), e.g. kaku
- e) Conditional form (katei-kei), e.g. kake (-ba)

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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f) Imperative form (meirei-kei), e.g. kake (-yo)

The deverbal NMLs and the head of ANCs end with continuative forms

of verb ended in '-i' in relation to the root form of verbs, i.e. odor-, kak- as

follows.

a) (NML-1b) odori (dance)

b) (NML-3a) gakusei no ronbun-kaki (students' essay writing).

Therefore, in line with the inflection system of verb, the formative '-i'

can be regarded as an NLR that contributes to the derivation of a lexical NML

and an ANC.

Hence, the above analysis of nominalization offers a set of NLRs, i.e. sa, i and u,

which form a set N₁ (as introduced in section 4) as follows.

 $NLR_1 = \{sa, i \text{ and } u\}$

The NLRs in the set NLR₁ are different from the NLRs in the set NRL₂ of

the prevalent nominalizer approach. Hence, the set of N₁ and the set of N₂ do

not form a common superset of NLRs.

Nominal Constituents or Nominals

The NML constituents or NMLs are the yields of the nominalization

process. The form and function of them as NP constituents vary depending on

Faquire, R. K. (2021). Nominalization

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e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlelv5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

the type of nominalization processes they undergo. They can be distinguished

into lexical NML, ANC and NML clause.

Lexical Nominal

The lexical NMLs can be put into different headings in accordance with

the base-constituents from which they are derived as follows.

a) De-adjectival/de-adverbial Nominal

A de-adjectival NML can be derived by conversion from the adjectival verb

(i-keiyōshi), e.g. samu-i (cold), being different from the adjectival noun

(na-adjective, keiyō-dōshi) as follows.

(NML-1a) De-adjectival NML, e.g. samu-i (cold)> samu-sa (coldness)

b) Deverbal Nominal

The most typical derivative noun is the deverbal noun, which is derived from

the verb involving some morphological process with or without the affixation

of a NLR at the lexical level as follows.

(NML-1b-i) Ø Derivation : *odori* (dancing) derived by conversion

from *odoru* (to dance)

(NML-1b-ii) Back-formation : benkyou (study) derived by removing

suru from benkyou suru (to study)

Variety of Deverbal Nominals as Reflected in the Continuum of Degree of

Independence

Faguire, R. K. (2021). Nominalization

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

The deverbal NMLs are the continuative forms of verbs, which function as the nouns. Chen (2013) has categorized them into three types based on their degree of independence in compliance with some given morphosyntactic criteria that a deverbal nominal enjoys in a clause constituent. They are as follows.

i) Independent type: The independent type is as same as the noun, which stand on 'ga' and 'wo' case-particles as they enter in a clause. For example,

```
(NML-1a-i) samusa
(NML-1b-i) odori (dance),
(NML-1b-iii) oyogi (swimming).
(NML-1b-iv) asobi (enjoyment),
```

ii) Phrasal-aid type: The phrasal-aid type requires morphosyntactic aid from the phrasal constituent to stand as nouns. For example,

```
(NML-1c-i) atari ga tsuyoi (hit is strong>strong hit),
(NML-1c-ii) okyaku-sama no uke ga yoi (reputation is good with guest),
(NML-1c-iii) terebi no utsuri ga warui (reflection of television is bad),
```

[Here, atari (hitting), uke (acceptance/reputation) and utsuri (reflection) are respectively the deverbal nouns]

iii) Compound-word type: The compound-word type is the deverbal NML, which are formed by compounding two or more words. For example,

```
(NML-1d-i) Noun+Verb compound-word type, e.g., ne-agari (hike in price)

(NML-1d-ii) Noun+Noun compound-word type, e.g., zei-komi (tax-included)
```

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

The types of deverbal NMLs in i), ii) and iii) as linguistic unit vary in the degree of their independence, which can be represented on a scale of continuum as in figure 2.

Degree of Independence
Strong ______Weak
Independent type Phrasal aid type Compound word type

Figure 2. Continuum of the Degree of Independence of Deverbal Noun

Variety of Deverbal Nominals in Terms of their Function

The deverbal NMLs can be of different types depending on the role they play as a linguistic unit as follows.

(1b-i) Action/state NML : odoru (to dance) > odori (dancing)

(1b-v) Agent NML : suru (to pickpocket) > suri (a pickpocket)

(1b-vi) Instrumental NML : shimi wo toru (to remove spot)> shimi-tori

(spot remover)

(1b-vii) Locative NML : uku (to float)>uki (a float)

Clausal Nominal

The clausal NMLs are of different types of constituents: i) those which are constituents constituted with the derivative noun on their heads called ANC, and ii) those which are clause-like constituents, i.e. NML clause as follows.

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DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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i) Action Nominal Constituent

The ANC is a constituent which takes a deverbal noun on its head. It is the yield of clausal nominalization, where 'the entire finite clause that gets nominal inflectional features, so that its head cannot be considered a noun (Comrie & Thompson, 1985: 392)'. For example,

(NML-3a) Gakusei no ronbun-kaki Student GEN write-CONT-essay) Student's essay-writing

The ANC form four broad categories depending on the structure of predicative verbal form as follows.

a) Possessive ANC: Transformed constituent of the intransitive verbal clause showing possessiveness to the nominalized verb as follows.

(NML-3a) Gakusei no ronbun-kaki Student GEN write-CONT-essay) Student's essay-writing

b) Double-possessive (DBL-POSS) ANC: Both subject and object show possessiveness to the nominalized verb with the double valencies of transformed constituent. Koptjevskaja-Tamm (1993:169~172) emphasizes that the Japanese has the pattern of DBL-POSS ANC. For example,

(NML-3b) Tanaka-shushou no keisatsu no shirabe (p. 172)
Prime Minister Tanaka GEN police GEN investigate-CONT
Investigation of Prime Minister Tanaka by the police

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DOI: https://doi.org/10.18196/jjlel.v5i2.11407

c) ANC with the alternative Head-Noun: The Head-Noun of it is formed

through the alternation of predicative verb to the verbal noun of Chinese

origin word. For example,

(NML-3c) gakusei no

ronbun-sakusei

Student POSS essay-composition

Student's essay-composition

ii) Nominal Clause

The NML clause is a verbal clause as in (NML-4) constituted of a subject

and a predicate which as a dependent clause combined with a matrix clause

constitutes a complex sentence= NML Clause [toki ni Matrix Clause]. For

example,

(NML-4) Gakuseiga ronbun wo kaku

Student NOM essay ACC write-COMPL

Student's writing of a dissertation.

(Complex sentence)

Gakusei ga ronbun wo kaku [toki ni pen wo

kaimasu].

Student NOM essav ACC write-COMPL COMP-when

pen ACC buy-PRES]

Student buys a pen, when writing a dissertation.

The NML clause retains almost all of its clausal properties except some

properties of sentence including illocution and modal properties.

The three types of NMLs: Derivative NML, ANC, and NML clause, which

we came through in the foregoing sections, do not receive any bound-noun

NLRs contained in the set NLR2 as the head of them. However, the

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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bound-noun-headed NMLs are derived by involving a type of nominalization,

for which they are different from the NMLs derived involving the envisaged

process of nominalization.

Nominals Partaking in the Formation of Noun Phrase in Japanese

The NMLs are the yields of nominalization which partake in the

formation of NP. In Japanese, a typical NP is formed out of a noun as a head of

the phrase together with \emptyset or more dependents of various types as it's

adnominal. The adnominals are of four types: morphological, lexical, phrasal

and clausal. The relative order of an adnominal is a typological parameter, on

which an NP turns on. In Japanese, the demonstrative, e.g. sono (that), being a

morphological adnominal, maintains a rigid order in relation to the clausal

and the phrasal modifiers and hold an initial position, while an adjective

adnominal never precedes the clausal/phrasal adnominals in the array of

adnominals in an NP. As we come through the template of NP in Section-1,

the linear order of different types of adnominal on the Head-Noun in an NP

can be represented as follows.

(NP-Base)

Sono hitori no Nagoya-shusshin no odori ga jouzuna ronbun wo kaku

gakusei

Dem Quan (GEN) NP (GEN/POSS) (Adj phrase) NML

clause Head-Noun

That one-person of Nagoya born good at dance that writes

an essay student

One of those students who is Nagoya-born and good at dancing will write

essay

Faquire, R. K. (2021). Nominalization

Volume 5 No. 2, 2021, 83-112

e-ISSN: 2615-0840 p-ISSN: 2597-5277 DOI: https://doi.org/10.18196/jjkl.v5i2.11407

https://journal.umv.ac.id/index.php/jjlel/issue/view/797

The NMLs partake both as the adnominal and the Head-Noun involving certain grammatical rules in the formation of an NP can be listed as follows.

a) Lexical Nominal (NML-1a) : de-adjectival NML, i.e. samu-sa (coldness),

Lexical Nominal (NML-1b) deverbal NML odori (dancing)

b) Bound-Noun-Headed (NML-2a) : ronbun wo kaku-koto

c) ANC (NML-3a) : gakusei no ronbun-kaki

d) NML clause (NML-4) : gakusei ga ronbun wo kaku

Here, the NML-1 is a kind of deverbal noun, whereas the NML-2 and NML-3 are a kind of NP and NML-4 is a kind of verbal clause. They respectively being the lexical, phrasal and clausal types partake in compliance with some morphosyntactic rules in the formation of NP.

Nominal Partaking in an NP as the Head-Noun

Given that the NML-1 is a lexical NML and the NML-2 and NML-3 are the NP, the NML1 and the Head of the NML-2 and NML-3 partake as the Head-Noun in the formation of an NP, the instances of which are as follows.

i) Lexical nominal as a Head-Noun

(NP-1)a. Kinou no samu-sa Yesterday GEN coldness (NML-1) Coldness of yesterday

> b. Kinou no odori Yesterday GEN dancing (NML-1) Dancing of yesterday

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

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- ii) Head of Bound-Noun-Headed NML as a Head-Noun
 - (NP-2) ronbun wo kaku-koto
 Essay ACC writing (bound-noun-headed NML-2)
 writing an essay
- iii) Head of Action Nominal Constituent as a Head-Noun
 - (NP-3) gakusei no ronbun-kaki Student GEN essay-writing (NML-3)] Student's essay writing

However, the NML-4 being a clause does not partake in the formation of an NP.

Nominals Partaking in the NP as an Adnominal

All the NMLs except the NML clause (NML-4) including (NML-1), NML-2) and (NML-3) partake as adnominal in the formation of an NP. The instances are as follows.

- i) Lexical NML as an adnominal= (NML-1)+Head-Noun
 - (NP-5) Samu-sa no hanashi Coldness (NML) GEN story Story of coldness
 - (NP-6) Odori no hanashi
 Dancing (NML)GEN story
 Story of dancing
- ii) Bound-noun-headed NML as an adnominal= (NML-2)+Head-Noun
 - (NP-7) Ronbun wo kaku-koto no hanashi [Essay ACC writing (NML)] GEN story Story of writing an essay

e-ISSN: 2615-0840 p-ISSN: 2597-5277 DOI: https://doi.org/10.18196/jjkl.v5i2.11407

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iii) ANC as an adnominal= (NML-3)+Head-Noun

(NP-8) [Gakusei no ronbun-kaki] no hanashi

[Student POSS essay-write-CONT] GEN story Story of student's essay-writing

However, the NML-4 does partake as an adnominal in the formation of NP.

Clausal Noun Phrase as the Transformed of Nominal Clause

The NML clause in iv) being a verbal clause does not partake in the formation of an NP. However, it can be made a clausal NP by transformation as follows.

i) Nominal Clause

(NML-4) Gakusei ga ronbun wo kaku Student NOM essay ACC write-COMPL That student writes an essay

ii) Transformed NP

(NP-10) Ronbun wo kaku gakusei Essay ACC write-COMPstudent (Head-Noun) Student who writes essay

CONCLUSION

The proposed nominalization framework being different from the nominalizer-based nominalization approach describes nominalization to be morphosyntactic process, the yields of which form a grammatical category, i.e. nominal (NML) distinguished into derivative noun, ANC and NML clause. The NMLs except the NML-4 partake to some extant in the formation of NP either as the Head of NP or as the adnominals. However, the NML clause itself does

e-ISSN: 2615-0840 p-ISSN: 2597-5277

DOI: https://doi.org/10.18196/jjlel.v5i2.11407

https://journal.umy.ac.id/index.php/jjlel/issue/view/797

not partake in the formation of NP but can be transformed into a clausal NP by transformation. In the similar perspective, the nominalizee (NLZ), nominalizer (NLR) and nominal (NML) together interact to demonstrate the dynamism of nominalization, which can be displayed in table 1 in showing a comparative picture.

Table 1. Process, Base, Means, Outcomes of Nominalization and Their Role in the Formation of NP at a Glance

Nominalization	Nominalizat	Nominal	Nominalizer	Nominals	Nominals
process	ion rules	izees	S	(NML)	in NP
		(NLZ)	(NLR)		
i) Derivation	Suffixation	verb,	sa, sei, and	Derivative	Head-noun,
	and fusion	adjective	mi, etc.	noun	adnominal
	of				
	morphemes				
ii)	Apposition	Finite	koto and no	Bound-noun-h	Head-noun,
Juxtaposition	to the	clause	and tokoro,	eaded phrase	adnominal
	bound noun		etc.		
iii) Derivation	Conversion	Finite	None	Action	Head-noun,
and		clause		Nominal	adnominal
Transformation				Constituent	
				(ANC)	
iv)	Reduction	Finite	None	Nominal	Transform
Desententializa	in certain	clause		Clause	ed function
- tion	clausal				as an NP
	properties				

Hence, the nominalization framework has come with the description of process (nominalization), base (NLZ), means (NLR) and outcomes (NML) of nominalization in a comprehensive manner. While the nominalizer-based approach of nominalization brings forth the Bound-Noun-Headed nominals, the nominalization as a morphosyntactic process in the nominalization framework derive the nominals of free morpheme types. The yield of

e-ISSN: 2615-0840 p-ISSN: 2597-5277 DOI: https://doi.org/10.18196/jjlelv5i2.11407

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morphosyntactic process being different from Bound-Noun-Headed nominals from a grammatical category NML which partake in the formation of NP. Hence, nominalization can be regarded as one of the accompanying strategies for the formation of NP in Japanese.

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e-ISSN: 2615-0840 p-ISSN: 2597-5277

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