

Note on Latin Grammar

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Chapter 1

Overview

1.1 Historical notes

This note is about Classical Latin and Ecclesiastical Latin. That's to say Old Latin, vulgar Latin (with prototypes of Romance articles), etc. are not discussed.

1.2 Phonology and the writing system

1.3 Parts of speech

Latin word classes can be defined easily via morphology, and these classes prove to have morphosyntactic significance. Traditionally speaking, word classes with none or poor morphology are called **particles**, and non-particle words can be divided into two large classes: those with similar morphology of prototypical nouns (i.e. **declension**) are **nominals**, while words with similar morphology of prototypical verbs (i.e. **conjugation**) form a uniform class rightfully called **verbs**. Nominals include **nouns** and **adjectives**, the distinction between the two can also be defined morphologically.

Latin particles include **prepositions**, **adverbs**, **interjections**, and **conjunctions**. The adverb class and the preposition class have a large overlap: often a preposition has an intransitive counterpart, which is similar to a prototypical adverb. Conjunctions may be seen as “prepositions for clauses”. The functions and etymologies of particles are highly diverse.

Latin nouns, verbs, and adjectives are all open categories. They are able to head constituents, and so are correlatives (though correlatives can be listed in the grammar). The preposition class is closed and is a part of the grammar, just like conjunctions. However, conjunctions are purely functional, while certain prepositions may be argued to head attributive expressions: though prepositions are often said to be markers of a periphrastic case system, the semantics carried by certain Latin prepositions are too complicated for a case system. This is also the case of adverbs: some adverbs seem to be periphrastic markers of TAME categories and therefore may be considered as a part of the grammar, while others seem to carry “real” meanings. Fig. 1.1 is a visualization of the classification of Latin word classes.

Box 1.1: Lexical and function classes

By words with “real category labels”, I mean words that have “real” meanings and serve as lexical heads of constituents (i.e. being surrounded by function words and dependents). Certain adverbs and prepositions have “real category labels”, and they appear at the left side in Fig. 1.1. Prepositions can be enumerated and therefore are considered as a part of the grammar, so they are always at the lower side in Fig. 1.1. Other adverbs and prepositions are light in their semantic and are purely functional, so they appear in the southeast corner of Fig. 1.1.

Note that this is not the standard terminology. Linguists use their own notion of *lexical class* and *function class* to cover what I say here.

Articles (English *a* or *the*), despite prevalent in other Indo-European languages, are missing in Latin. This, together with the fact that Classical Sanskrit and Old Persian didn't have articles and the Slavic languages still don't, is a strong indicator that proto-Indo-European (PIE) didn't have articles. Note that the fact that Latin lacks articles doesn't mean the determiner syntactic function doesn't exist: there are

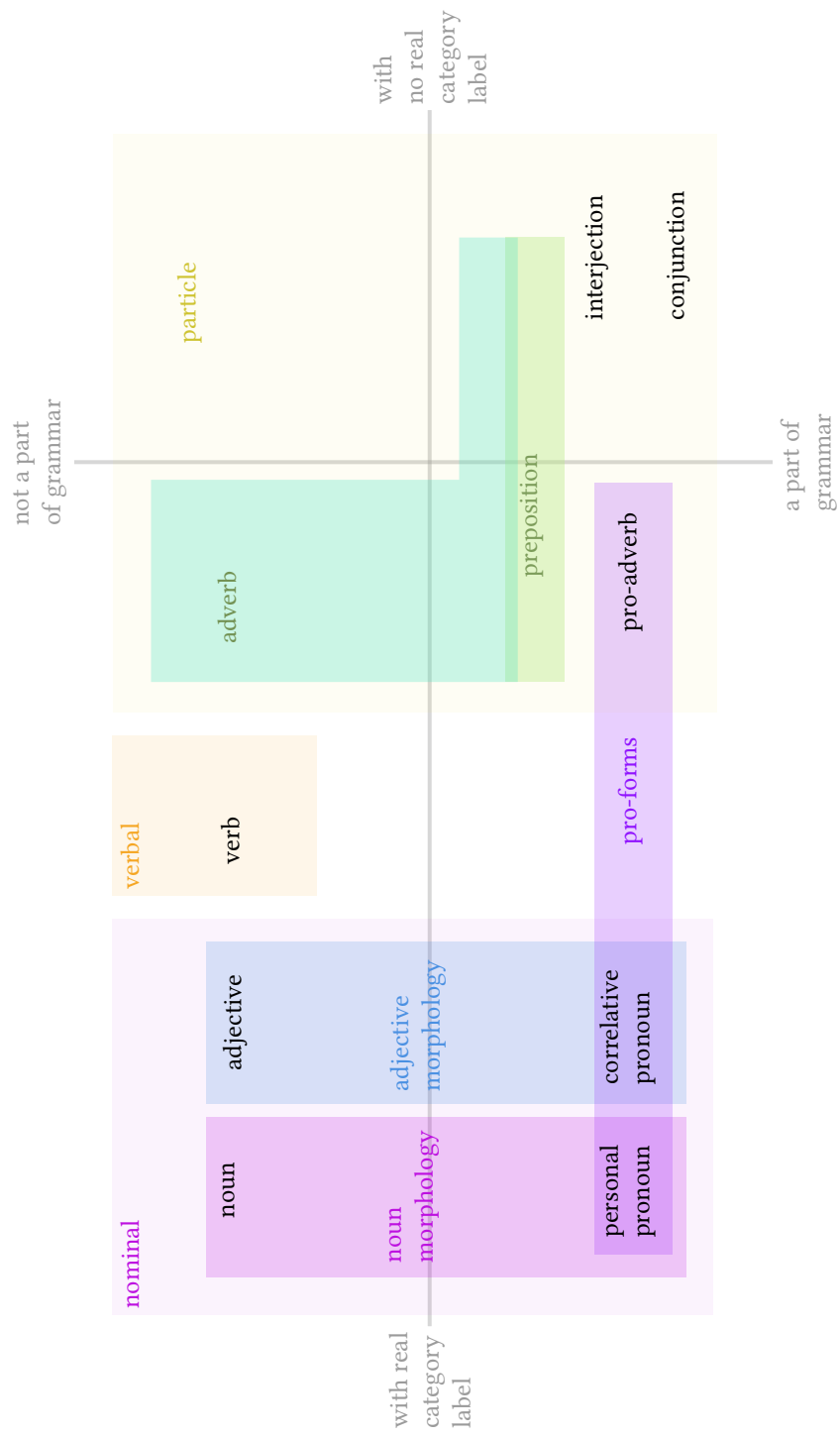


Figure 1.1: Latin word classes

evidences suggesting certain aspects of the behavior of Latin NPs are just like English (Giusti and Iovino, 2014).

1.4 Morphology

Latin has rich morphology, which enables a rather free – but still not completely arbitrary – constituent order. Latin has a clear inflection-derivation distinction. Despite its richness, Latin derivation is largely historical, with meanings of derived forms having shifted and no longer regularly inferrable. Latin inflection is always suffixal, while derivation is predominantly prefixal. Concatenative morphology (affixation and compounding) is prominent but isn't the only morphological device: the following non-concatenative mechanisms are all attested:

- *Reduplication*: formation of the perfect stem (TODO: ref)
- *Subtraction*: dropping of first-conjugation stem-final vowel (§ 7.4.1).
- *Infixation*: TODO: ref The imperfect *-ba-* is sometimes said to be an infix (as well as its counterparts like *-bi-*), though it fits in a concatenative picture of verbal morphology.

These mechanisms, however, are largely historical, just like their concatenative counterparts.

1.5 Noun phrases and nominal morphology

1.6 Verbal morphology and clause structure

Most clausal grammatical categories are marked on the verbal morphology. Sometimes a grammatical category is there but is not reflected in the morphology. For example, in English we have infinitive clauses, but strictly speaking, there is no such thing as “infinitive verb”: the head verb of an infinitive clause has exactly the same form of a non-third person singular present tense verb. This is not the case in Latin. For example, the head verb of an infinitive clause in Latin indeed has a separate position in the paradigm. Thus, grammatical categories of the clause are listed in this section.

1.6.1 Alignment

Latin is a clear nominative-accusative language. Similar to what is documented in CGEL, Latin core arguments are coded as subject, object(s), and copular complements at the level of alignment. They can be distinguished by the semantic roles, case marking, possible contents, and transformational properties (§ 9.1). In

Box 1.2: The term *complement*

In CGEL the term *complement* means the grammatical status of anything that originates from the argument structure of the main verb. Thus the subject, several kinds of objects, the copular complement (Huddleston and Pullum (2002) calls it *predicative complement*) are all complements, and they are also function labels (roughly corresponding to “SpecTP” or “what is in *vP* and receives the object case from a high light verb”). In traditional Latin grammar *complement* means the copular complement.

This note follows the terminology used in most descriptive grammars, so use the term *copular complement* to refer to the CGEL *predicative complement*. Also, the term *complement-taking verb*, despite being confusing, is used to denote a verb that take a complement clause as one of its arguments.

The mapping from the argument structure of a verb to clausal complement types is called alignment. This is not trivial: in generative terms, the argument structure is the structure of the “canonical” *vP* containing a verb root, while the clausal complement types are largely decided by what happens after TP is finished. Lots of things can happen between the two.

1.6.2 Peripheral arguments

There is no serial verb constructions in Latin (§ 1.7), and thus semantic functions like location or instrument are always realized by typical peripheral arguments attached to the core argument structure. These peripheral argument positions sometimes can be filled by adverbs, which also reveals an origin of adverbs: fossilized case forms.

1.7 Clause combining

Box 1.3: Types of coordination and subordination

It's hard to draw a line between coordination and asymmetric (i.e. subordinating) clause linking (like concessive clauses). Theoretically, this is because any clause combining construction follows the X-bar scheme: one clause is the Specifier, and another clause is the Complement, and certain asymmetry has to be introduced. In English, the FANBOYS – *for, and, nor, but, or, yet, so* – are usually regarded as coordinating conjunctions. But what's the essential difference between *although* and *but*?

On the other hand, adverbial clause constructions are uncontroversially asymmetric and can in theory be distinguished from clause linking: in clause linking, the less important clause is base-generated in one Specifier position in the CP layer of the main clause, so the two combined units are of roughly the same structure, while adverbial clauses appear in the TP layer, so the two combined units are of different structures: the adverbial clause is a CP, while the main clause, when the adverbial clause enters derivation, is a TP. Complement clauses, on the other hand, are first introduced in the *vP* layer: they are TPs or CPs, while the main clause, when complement clauses enter the derivation, are *vPs*. But there are still certain subtleties regarding the boundaries of *vP*, TP, and CP.

Relative clauses are introduced in DPs, so the probability to confuse a relative clause construction with a complement clause construction is small – but still not zero. It can be expected that *I like the man dancing* and *I like the dancing man* are realized in quite similar ways. Besides, some languages lack prototypical complement clause constructions but have complementation strategies. That is, when they talk about *I like the dancing man*, a speaker of such a language may be implying that he or she actually likes the man's dancing, though not the man's personality. Now comes the question: when there are vague evidences indicating the grammaticalization of this construction, should we now claim the language has already developed a complement clause construction?

It's still possible to do the same thing – largely symmetric coordination and certainly asymmetric subordination – completely with *vPs*. The former results in clause chaining (Nonato, 2014), while the latter results in serial verb constructions. These construction types, however, are absent in Latin, and I will not go deep into them in this note.

In Latin there is no serial verb constructions. Subordination strategies can be neatly summarized into complement clauses, relative clauses and adverbial clauses.

1.8 Constituent order

Box 1.4: Constituency deemphasized in Latin grammar

The largely free constituent order means description of Latin grammar is mostly dependency-relation based or BLT-based, because surface-based constituents other than NPs and clauses are hard to define. Still, generative (constituency-based, though the introduction of movements and the structure of Cinque hierarchy gives it certain flavor of dependency grammars) approaches exist for Latin constituent order. There is evidence suggesting Latin is configurational, i.e. has phrase structures (Danckaert, 2017). This is probably not surprising because even the most non-configurational languages show certain degree of configurationality (Niedzielski, 2017; Morris, 2018; Legate, 2002, among others). Then, *how* non-configurational Latin is is a question needing addressing. Is it closer to a typical non-configurational language, say Warlpiri, or is it closer to

Japanese where we have more localized scrambling? I will address this question in TODO: ref , though unfortunately, we still does not have a very clear answer.

Chapter 2

Phonology and the writing system

Chapter 3

Parts of speech

Chapter 4

Nominal inflection

4.1 Declension of regular nouns

4.1.1 The paradigms

4.1.2 Distributions of case forms

4.1.2.1 The accusative

4.2 Declension of regular adjectives

4.3 Declension of pronouns

4.4 The gerund and participles

4.4.1 The gerund

Note that the nominative case is missing – when a non-finite clause is required in the subject position, it's always an infinitive.

Chapter 5

Nominal derivations

Chapter 6

The structure of the noun phrase

Although Latin lacks the article

6.1 Attributives

This section only discusses adjective or numeral attributives in detail. For in-depth discussion of relative clauses, see § 15.

6.2 Arguments of adjectives

TODO: case forms with adjectives

6.3 The possessive construction

6.4 Numerals in the noun phrase

6.5 Prepositions

Chapter 7

Verb inflection

7.1 The finite paradigm

7.1.1 The verb template

The structure of a Latin verb can be roughly represented by Fig. 7.1. Traditionally, the verb is divided into the **stem** and the **ending**. Derivation in Latin is predominantly preverbal, and hence the conjugation is mostly about the final lexical morpheme in the verb stem, which is represented as the root in Fig. 7.1. There may be a perfect suffix after the root. Components of the verb ending include the **tense and mood marker**, and the person, number and voice marker, which is called the **personal ending** here, following the terminology in Allen and Greenough (1903, § 165).

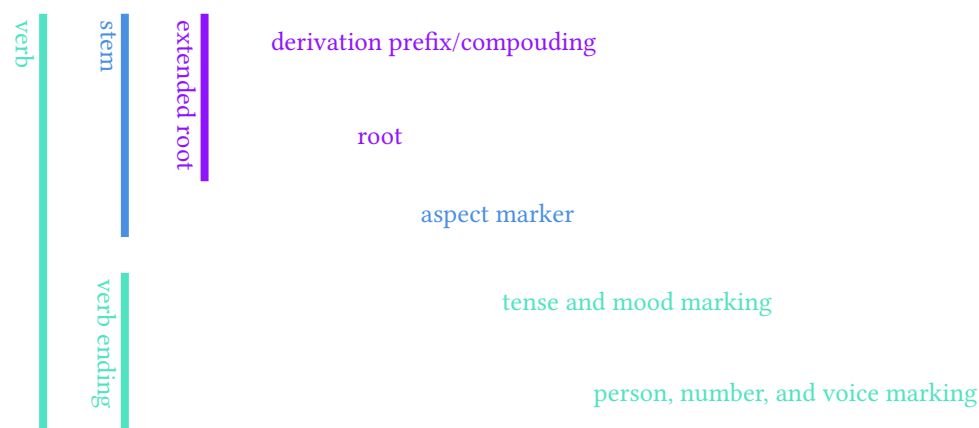


Figure 7.1: The template of Latin verbs. Indentation means linear order and not necessarily constituency structure.

The core stem assumes semi-regular alternations. The perfect marker is often but not always -v- (§ 7.3.3). Although the aspect marker is a part of the TAM marking (§ 7.1.3), it somehow is much more closely attached to the root in the morphophonological realization of the verbal system: how it is realized is not completely predictable, and therefore the two finite stem forms – the present stem and the perfect stem – are both required for complete characterization of the paradigm of a regular verb. To fully decide the paradigm we still need a further stem, the supine stem (§ 7.3.1).

Contextual allomorphs also exist for other morphemes in Fig. 7.1 (Embick and Halle, 2005, p. 11), as is shown in Table 7.1. The most salient change is that a vowel may be inserted between the root and the aspect suffix, which is also known as the **thematic vowel**. It is the residue of the PIE ablaut and labels the conjugation class. The tense and mood marker is influenced by the existence of the perfect suffix. The personal ending is also influenced by what precedes it, as in the the -mus and -imus alternation.

Below I discuss the subsystems in Fig. 7.1.

Table 7.1: Examples of Latin finite verbs

verb form	extended root extended root	stem		aspect marker	tense and mood	personal ending	
		thematic vowel				"thematic vowel"	personal ending
<i>amō</i>	<i>am</i>					<i>ō</i>	<i>ō</i>
<i>laudāmus</i>	<i>laud</i>	<i>ā</i>				<i>mus</i>	<i>mus</i>
<i>olēvimus</i>	<i>ol</i>	<i>ē</i>		<i>v</i>		<i>i</i>	<i>mus</i>
<i>amāveris</i>	<i>am</i>	<i>ā</i>		<i>v</i>	<i>eri</i>		<i>s</i>

7.1.2 Voice

Latin doesn't have rich valency changing devices: there is only one clause-wide valency decreasing device – passivization – and there is no valency increasing device. Causative constructions are realized by complement clauses, not any change in the argument structure. Whether passivization happens is recorded by the category of **voice**. A verb (and hence the clause headed by it) is therefore either in **active voice**, or in **passive voice**.

Box 7.1: Valency changing

From a generative perspective, some languages realize valency changing by a series of ν P structures, and then the case assignment of the arguments is trivial. Some languages use non-trivial structural case assignment mechanisms to achieve valency changing (“suppressing the agent argument, and leave the nominative probe to find the subject; the probe then has to choose the patient argument”). Of course, ν P changes in the second type are still there, which may be a likely source of relevant verb morphology. Naturally, the second group of languages have more restricted valency changing devices; this is the case of Latin.

7.1.3 TAME categories

Latin has fused tense and aspect: the composition of three tense values and three aspect values gives nine options, but in Latin, there are only six morphologically distinguished options, as is shown in Table 7.2. When people talk about **tense** in Latin (and in many other Indo-European languages), they are often taking about things like the six options, instead of the past/present/future system. The imperfective/perfective distinction (for example the *be doing* construction in English) is not syntactically coded in Latin.

Table 7.2: Latin tense and aspect

	past	present	future
imperfect	IMPERFECT	PRESENT	FUTURE
simple	PERFECT		
perfect	PLUPERFECT	PERFECT	FUTURE PERFECT

Box 7.2: Mismatch between TAME constructions and fine-grained categories

Note that semantic TAME features are different from syntactic TAME features, and the two are in turn different from packaged TAME marking constructions that can be easily identified in surface-orientated analyses. This is illustrated in Table 7.2. Following the example in Grimm (2021), in this note, I use small capitals for the names of attested surface realizations of TAME and the default font for TAME values. (Some other grammars, like Jacques (2021); Friesen (2017), use initial capitals for the former.)

Similar fusion between categories is shown in the category of **mood**. It's the fusion of morphologically marked clause type (declarative and imperative) and morphologically marked modality. The verb morphology of interrogative clauses is exactly the same as declarative clauses: the interrogative clause type is marked by the existence of interrogative *pro*-forms. Thus, there are three moods in finite clauses in Latin: INDICATIVE, SUBJUNCTIVE, and IMPERATIVE. The INDICATIVE is the fusion of the declarative/interrogative clause type and the realis modality. The SUBJUNCTIVE mood is the fusion of the declarative/interrogative clause type and the irrealis modality. The IMPERATIVE is basically the imperative clause type: it doesn't allow modality marking. Sometimes people say the infinitive is the fourth mood, though it's a non-finite clause.

Box 7.3: The term mood

BLT only calls the first category *mood*. Different linguists use the term *mood* and *modality* in radically different ways. In this note I just focus on the common practice in Latin grammar study.

7.1.4 Agreement

Latin is a typical nominative-accusative language, both morphologically and syntactically. In finite clauses, there is subject-verb agreement: the number and person of the subject is marked on the main verb. In the case of periphrastic conjugation, the features are marked on the copula.

7.1.5 Compatability of categories

There is no FUTURE tense and FUTURE PERFECT tense in subjunctive clauses, probably for the semantic reason that the future tense already contains certain sense of modality (an event predicted to happen), and thus is not compatible with the SUBJUNCTIVE mood. The IMPERATIVE mood is not compatible with other TAME markings except the PRESENT tense and the FUTURE tense. It's still compatible with the voice category, and allowed persons are second person singular/plural with the PRESENT tense, and second/third person singular/plural with the FUTURE tense. The absence of first person is also probably from semantic origin.

In conclusion, the categories involved in the finite verb paradigm of Latin are shown in Fig. 7.2. Here mood and tense are realized in one morpheme, and voice, person and number are realized in one morpheme. The paradigm is realized synthetically in all circumstances except in passive voice and perfect tense. In that case, the verb conjugation is realized like the English passive, i.e. via a copula and the perfect passive participle.

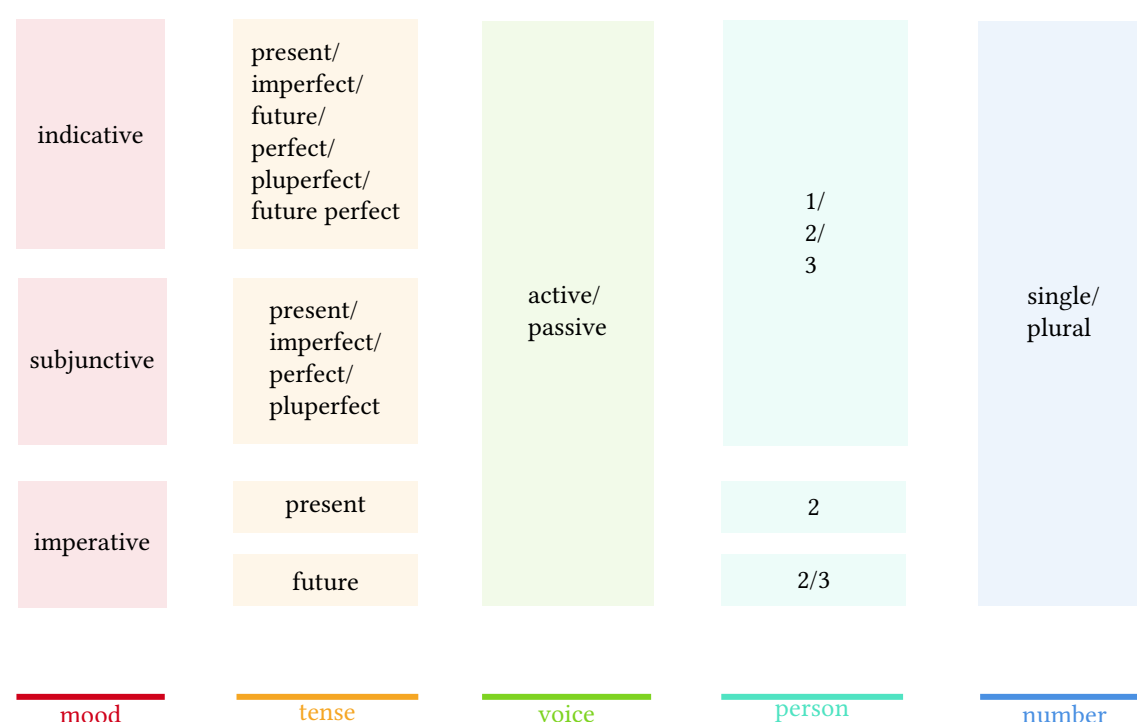


Figure 7.2: Categories in the finite paradigm

Box 7.4: About the number of verb forms

Different people use the term *verb forms* – and count them – in different ways. The most generous – and the most syntactically relevant – way is to view the realization of every possible CP-TP-vP projection as a form of the main verb – the verb root at the core of the CP-TP-vP domains. This results in a paradigm in traditional grammar, essentially the traditional way to enumerate Latin verb forms (“the indicative active present second person form of a verb is ...”).

The problem with this approach is sometimes two cells in the paradigm are always identical. In this way, morphosyntactically there are indeed two different paradigm cells, but morphophonologically there is only one verb form. Take English as an example: a traditional grammar may say “the present subjunctive first person singular of English *take* is *take*”. The problem

here is the present subjunctive first person singular *clause* always contains the same form of the *verb* with a present indicative first person singular clause, so it makes no sense to talk about “the present subjunctive first person singular *verb form*”. A stingy linguist may then stipulate that conjugation forms are literally about *forms*, and thus there is no such thing as “the subjunctive form” of English verbs, because in subject *clauses*, the main verb always has the same form as the infinitive (Huddleston and Pullum, 2002, p. 76).

Another problem with this approach occurs when dealing with languages like Japanese. There are so many suffix slots, and the boundaries between suffixes are relatively clear, so the paradigm is too big to be displayed as a whole and too regular to be enumerated cell by cell.

The analysis of conjugation forms of the verb, theoretically speaking, is more about vocabulary insertion and readjustment rules, instead of the syntax proper. This is an instance of the *separation principle*: morphophonological features can be separated from morphosyntactic features (Embick, 2000). Distinguishing between verb forms and clause categories isn’t just a game about wording: in periphrastic conjugation, we have auxiliary verb(s) plus a non-finite verb form, but here the non-finite verb form is just the spellout of several features together with the verb root and is definitely not the head of a non-finite *clause*: what we have here is one clause, not clause embedding. Thus it makes no sense to say “we use a non-finite verb form in a periphrastic construction”, because finiteness is a category of a clause, and here is no clause combining. This is also relevant for surface-oriented descriptive linguistics: Huddleston and Pullum (2002, p. 74,83) rejects the notion of the *infinitive form* of the verb, and replace the term by *default form*, because the so-called infinitive form also appears in the subjunctive mood or the imperative mood. Despite this, to respect the tradition, I will still use the term *non-finite verbs* or wordings like “the perfect passives are formed by attaching forms of copula to the perfect participle”.

The generous paradigm-cell-as-verb-form approach fortunately works in Latin because Latin is morphologically rich and thanks to historical changes, the boundaries between suffixes marking each grammatical category are already vague enough, so the Japanese School Grammar approach is also not applicable. So it does make sense to talk about “the indicative active perfect second person singular form” of a verb. Similarly, we also talk about non-finite verb forms (§ 7.2), though strictly speaking, finiteness is a category of the clause.

7.1.6 Overview of conjugation classes

The way realization of the paradigm for a verb may be divided into four conjugation classes (§ 7.4), and there are also deponent verbs (§ 7.6) and irregular verbs (§ 7.7).

7.2 The non-finite paradigm

According to the morphology, Latin non-finite verb forms can be classified into the infinitives (§ 7.5.1) and the nominal forms (§ 7.5.2), the latter having noun-like or adjective-like morphology (§ 4.4). Non-finite verb forms don’t agree with the subjects they take, so there is no number or person category marked on them in the same way as Fig. 7.2, though for nominal verb forms there are number and person categories marked in the same way as the nominal morphology (§ 4.4).

The infinitives include present active, present passive, perfect active, perfect passive, future active, and future passive infinitives. The latter three are realized periphrastically (Fig. 7.3).

The nominal verb forms include the **simple active**, the **perfect passive** (often just called the perfect participle), and the **future active** participles, the **gerund**, the **gerundive** which is also known as the **future passive** participle, and two supine forms. The **first supine** is identical in the form to the singular neutral accusative perfect participle, without any reference to the number category of any argument it takes. The **second supine** is identical to the singular neutral ablative or dative past participle, also with no inflection with respect to the number category of any argument it takes.

Box 7.5: Whether to keep supine as a verb form

The idea of the stingy linguist may lead one to reject the notion of supine in Latin grammar (Box 7.4). However, for the same reason the infinitive (or the “plain form”, since the infinitive

is actually a label of clauses – see the discussion and the separation principle in Box 7.4) is recognized as a form independent from the present form in English in Huddleston and Pullum (2002, p. 74), the status of supine as a separate form is recognized in this note. The reasons include TODO

In Classical Latin, the gerund and participle forms are significantly more noun-like than their counterparts in English, and this also justifies the term *nominal form*, because they are not far from prototypically nominalization: although they are still modified by adverbs, they are unable to take arguments. In Ecclesiastical Latin, the so-called nominal forms are more verb-like (TODO: ref), being able to take arguments, and are therefore no longer “nominal”.

7.3 Formation of stems

7.3.1 The three verb stems

Box 7.6: About the concept of stem

Prototypically, the verb conjugation in a language is described by a series of morphological devices that take *the* verb stem as the input, and give conjugated verb forms as the final product. This is indeed the case for Latin nouns (§ 4.1) and for English regular verbs: the infinitive form is taken in, and third-person singular -s, past tense -ed, past participle -ed, and the gerund-participle -ing are attached according to the syntactic environment. Sometimes the process is a little more irregular but not that irregular: *several* stems can be identified, each of which is fed into different morphosyntactic machines. In other words, we have irregular stem alternation. Again, for English irregular verbs, there are three stems: the infinitive stem (e.g. *go*), the preterite stem (e.g. *went*) and the past participle stem (e.g. *gone*). The step to feed stems into morphosyntactic machine is irregular, but everything else is regular: irregular, in this case, does appear, but it appear *regularly*: it only appears in certain parts.

This phenomenon – that a verb has more than one stem, i.e. irregular stem alternation – is frequent cross-linguistically (Jacques 2021 § 12.2, Forker 2020 § 11.2, among others). Usually, certain correlation between the stem varieties can still be recognized, and verbs can be grouped accordingly, which, if the linguist truly will, can be (though tediously) summarized as more fine-grained conjugation classes. This is also the case for Latin. The irregularity of stem alternation is so prevalent that if the conjugation paradigm of a verb can be described with a few stems, the verb is deemed as regular, despite the fact that such verbs are obviously irregular by the standard of English.

The notion of **stems** isn't really essential in the description of morphosyntactic: it can well be modeled by environment-dependent vocabulary insertion rules and/or post-syntactic operations. When certain correlations can still be built between so-called suppletive forms, what happens may be analyzed as in Embick and Halle (2005), where certain stems receive morphophonological readjustment (according to the aforementioned hyper fine-grained conjugation subclasses). Thus, it's not true suppletion: it's just a corner case of non-concatenative morphology. When these readjustment rules are fossilized, suppletion – like the English *good/better* – may just be the result of conditional insertion, as is outlined in Siddiqi (2009).

A general tendency about suppletion is truly suppletive verbs are usually light verbs (in the surface-oriented sense), with meanings like 'do', 'come', etc. This may come from the fact that conditional realization of the root is somehow “heavy”. When we do away with this, e.e. under Embick and Halle (2005)'s assumption, unrestricted suppletion can only be the result of vocabulary insertion rules of functional heads; certain degree of suppletion can still be realized by readjustment rules, which however are restricted in their computational capacity. Thus, real lexical verbs are highly unlikely to have truly irregular suppletion; if a verb is truly suppletive, then it's highly likely to be the spellout of vP functional heads.

Latin shows not completely predictable stem alternation. All forms mentioned in § 1.6 can be obtained by three stems (Allen and Greenough, 1903, § 164), if the verb is regular:

- The **present stem**, which, after attached with proper endings, forms

- The PRESENT, IMPERFECT, and future forms, regardless of whether they are indicative or subjunctive, active or passive. (There is no future or future perfect subjunctive).
- All the imperatives.
- The present infinitives, active and passive.
- The present participle, the gerundive, and the gerund.
- The **perfect stem**, which, after attached with proper endings, forms
 - The perfect, pluperfect, and future perfect active, indicative or subjunctive. Again, there is no future or future perfect subjunctive. Note that the passives are *not* formed by the perfect stem.
 - The perfect active infinitive. (Or the perfective infinitive active, since infinitive is considered as a mood by some people.)

Note that the perfect passive participle is *not* obtained from the perfect stem.

- The **supine stem**, which, after attached with proper endings or used together with proper forms of *sum*, forms
 - The perfect passive participle, which, by being used with proper forms of *sum*, forms
 - * The perfect, pluperfect, and future perfect passive forms, indicative or subjunctive. Again, there is no future or future perfect subjunctive. This is periphrastic conjugation: it is done by using proper forms of *sum* with the perfect passive participle.
 - * The perfect infinitive passive.
 - The future active participle, which, used together with *esse*, makes the future active infinitive.
 - The future passive infinitive, by being used together with *īrī*.

This process is summarized in Fig. 7.3. In a dictionary, typically the stems are not directly given – which are given are representative verb forms, from which the stems and the conjugation class can be inferred (§ 7.8).

Note that in Medieval Latin, often, instead of *iri* plus the first supine, *fore* plus the perfect participle is used to form the future passive infinitive. TODO: find a reference <https://www.nationalarchives.gov.uk/latin/stage-2-latin/lessons/lesson-24-infinitives-accusative-and-infinitive-clause/>

7.3.2 Formation of the present stem

7.3.3 Formation of the perfect stem

7.4 The finite paradigm

7.4.1 Tense and mood

The contextual alternation of the tense and mood marker is listed below. Note that the tense and mood marker is also subject to phonological rules (diachronic or synchronic). The following rule is the most important one that applies in verb conjugation: *a long vowel is shortened before -m, -r, -t, -nt, -ntur*. Considering *bāris*, this doesn't look like a synchronic rule?? TODO

- The indicative:
 - Present: zero suffixation, but there is change on the stem-final vowel:
 - * For first conjugation verbs, the final *ā* is dropped.
 - * For second conjugation verbs, the final *ē* → *e*.
 - *
 - Imperfect: *-bā-*, possibly shortened.
 - Future:
 - * For first and second conjugation verbs, the tense-mood morpheme is *-bi-*, except for first-person singular (which is *-b-*) and third-person plural (which is *-bu-*).

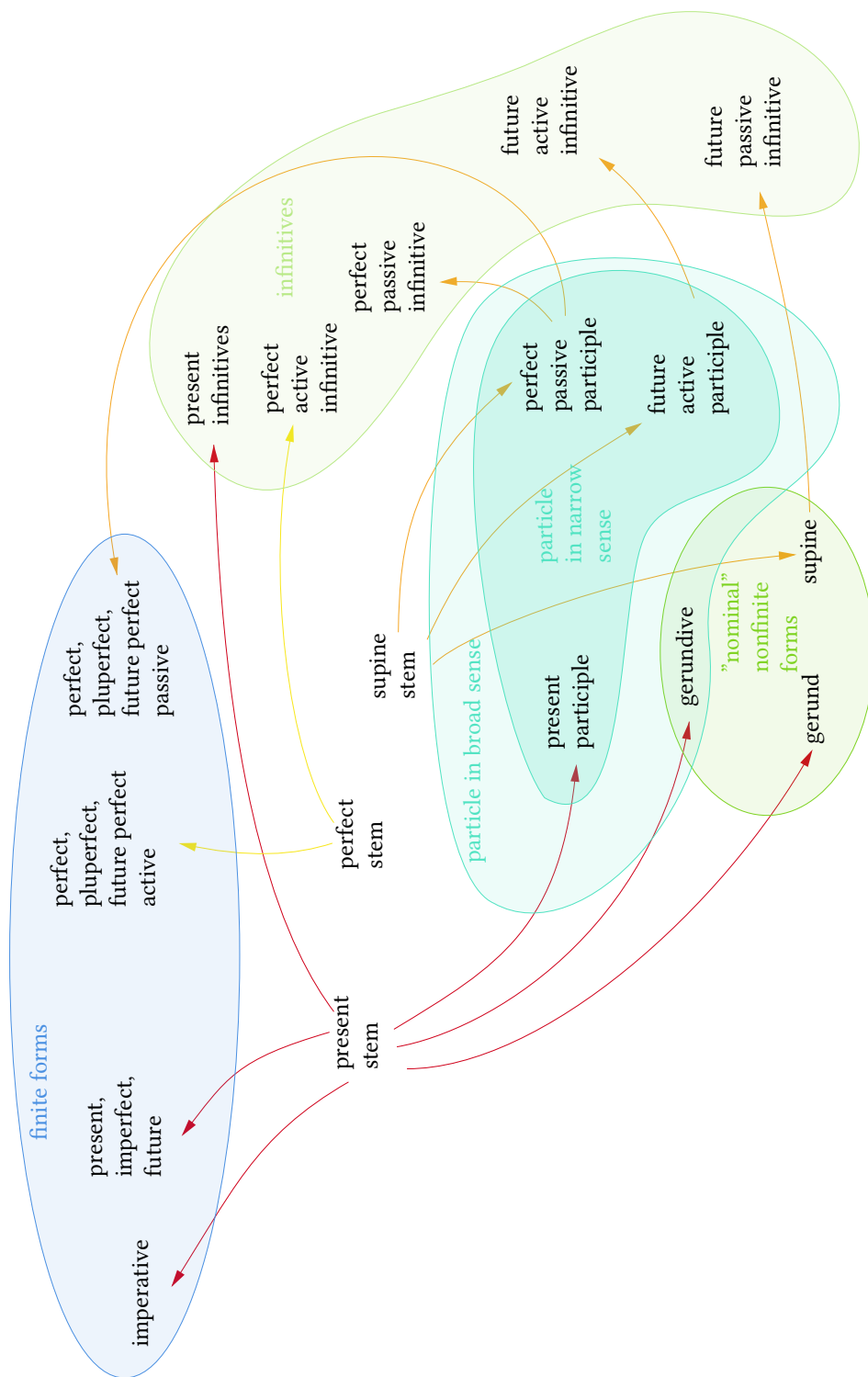


Figure 7.3: How to get all conjugation forms from the three stems

- * For third and fourth conjugation verbs, change stem-final stem.
- Perfect:
 - * *-ī-*: first-person singular, third-person singular, first-person plural. Shortened for the latter two.
 - * *-is-*: second-person singular, second-person plural.
 - * *-ēru-*: third-person plural.
- Pluperfect: *-erā-*, possibly shortened.
- Future perfect:
 - * *-eri-* for all cases except first person singular.
 - * *-er-* for first-person singular.
- The subjunctive:
 - Present: no suffixation, but there is regular change on the stem-final vowel:
 - * For first conjugation verbs, *ā* → *ē*.
 - * For second conjugation verbs, → *eā*.
 - * For third conjugation verbs, → *ā*.
 - * For fourth conjugation verbs, → *iā*.

These alternations apply for both active and passive verbs, so they have nothing to do with polarity, and this is why I put them in this section.
 - Imperfect: *-rē-*, possibly shortened.
 - Perfect: *-eri-* for all non-periphrastic cases, i.e. active.
 - Pluperfect: *-issē-* for all non-periphrastic cases, i.e. active. Possibly shortened.

At the first glance, it may be attempting as well to consider *-ba-* as the indicative imperfect suffix, since *-bā-* does not outnumber it. However, note that The same line of argumentation can be applied to justify the status of *-rē-* as the somehow canonical subjunctive imperfect suffix.

7.4.2 The personal ending

Here I list possible personal endings for verbs that are indicative or subjunctive.

- The active:
 - First-person singular:
 - * *-ō-*: present indicative, future indicative (first and second conjugations only), future perfect indicative.
 - * *-m-*: imperfect indicative, future indicative (third and fourth conjugations only), pluperfect indicative, subjunctive regardless of tense.
 - * *-ī-*: perfect indicative.
 - Second-person singular:
 - * *-s-*: compatible with all tenses and moods, except the perfect indicative.
 - * *-tī-*: perfect indicative.
 - Third-person singular: *-t*, with all tenses and moods.
 - First-person plural: *-mus*, with all tenses and moods.
 - Second-person plural: *-tis*, with all tenses and moods.
 - Third-person plural: *-nt*, with all tenses and moods.
- The passive:
 - First-person singular:
 - * *-r-*: compatible with all tenses and moods, except the present indicative.
 - * *-or-*: present indicative. Also, note that the future indicative (first and second conjugations only) ending is *-bor*, which may be analyzed as *-b-or*.

- Second-person singular:
 - * *-ris*: compatible with all non-periphrastic tenses and moods.
 - * *-re*: alternative form of second-person singular compatible with all non-periphrastic tenses and moods. If this personal ending is used, then the tense and mood marking is none. Note that the resulting verb form is the same as the infinitive participle part.
- Third-person singular: *-tur*, with all non-periphrastic tenses and moods.
- First-person plural: *-mur*, with all non-periphrastic tenses and moods.
- Second-person plural: *-mini*, with all non-periphrastic tense and moods.
- Third-person plural: *-ntur*, with all non-periphrastic tenses and moods.

7.4.3 Periphrastic conjugations

7.5 Non-finite forms

7.5.1 The infinitives

7.5.2 The gerund and participles

The morphology of the gerund and participles are described in § 4.4. This section is about their meanings and distributions.

7.6 Deponent verbs

Box 7.7: Distributed Morphology of deponent verbs

Embick (2000) analyzes deponent verbs as roots carrying a passive feature themselves. When functional heads higher than the roots are realized, the passive feature – which may come from the root or from the passive light verb – guides the realization of the person and number categories.

7.7 Irregular verbs

7.7.1 The verb *sum*

The verb *sum* has lots of uses in Latin grammar (§ 9.5.1).

7.8 Guide for parsing and using Latin verbs

7.8.1 Principal forms and stems

In practice, the three stems aren't what stored in the dictionary, for two reasons. First, for fluent users, recording actually attested word forms is easier compared with the morpheme-based and “anatomized” approach. Second, Latin has four conjugation types, and hence the three stems themselves aren't sufficient to decide how to conjugate the verb: more information is needed, and by storing already conjugated verb forms, the conjugation class can be decided by observing the endings. What are stored are the following **principal forms**, from which the three stems and the conjugation class can be solved out (**Allen and Greenough, 1903**, § 172):

1. *The first-person present active indicative*: formed from the present stem.
2. *The present infinitive*: formed from the present stem. By observing its ending, the conjugation class can be decided, and by comparing with the first principal form, the present stem is obtained.
3. *The first-person perfect active indicative*: showing the perfect stem.

4. *The neutral accusative past participle*, i.e. the form of supine: showing the supine stem.

The ways to obtain the stems from the principal forms are:

- *The present stem* can be found by dropping *-re* in the PRESENT INFINITIVE (Allen and Greenough, 1903, § 175).
- *The perfect stem* can be found from the third principal part: just remove $-\bar{i}$.
- *The supine stem* can be found by dropping *-um* in the supine i.e. the fourth principal form (Allen and Greenough, 1903, § 178).

7.8.2 Constructing non-finite forms

7.8.2.1 Nominal forms

- *The present active participle* (i.e. *the present participle*): replace the *-re* ending of the present active infinitive by *-nt* (or in other words, add *-nt* to the present stem) and the result is the nominative.
- *The perfect passive participle* (i.e. *the perfect participle or the past participle*): this can be found by declining the neutral accusative past participle, i.e. the fourth principal part.
- *The future active participle* (i.e. *the future participle*): add *-turus* to the supine stem.

Chapter 8

Verb derivations

8.1 Preverbs

Chapter 9

Arguments and verb valency classes

9.1 Overview of marking of core arguments

This section gives an overview of the statuses of arguments as clausal dependents, or in other words, how they're marked in the clause. Testing standards of types of clausal dependents include their correspondence with semantic roles in verb frames, what's their cases, agreement, their behaviors in passivization, and what constructions are able to fill them.

Box 9.1: How to study complement types

The traditional practice of Latin grammar research is to classify clausal complement and adjunct types according to their case marking. This strategy is also found in modern grammars. Some introduce clausal complement types just in chapters about case marking (Jacques, 2021, chap. 8), while other grammars, despite giving a brief description of the context of case marking, spare some time to discuss complement types in the chapters about valency and clause structure (Forker, 2020, § 3.4, chap. 19, chap. 22). From a Tree-adjoining grammar (TAG) perspective, the two extremes are different in how they treat function labels: in the former, the function label of a construction appears together with its category label on the root node, while in the latter, the function is described separately from the form of what fills that position. The former is more bottom-up, while the latter is more top-down. The choice between the two, however, is usually language-dependent: grammars for analytic languages, of course, have to lean even further to the “complement type as clause slot” extreme and away from the “complement type as case-form context” extreme. Allen and Greenough (1903) uses a hybrid method: the discussion about case marking (§ 39) is separated from the discussion about complement and adjunct types (§ 338), so the top-down approach seems to be adopted, but the latter is still arranged in terms of case. This arises both from the distinct features of Latin and the intended readers: the relation between complement types and cases is regular enough in Latin, and what is most important for Latinists is to understand, at least sketchily, ancient writings, so a parsing-oriented grammar is much handier.

9.1.1 Verb subcategorization

Allowed combinations of clausal dependents are determined by the valency class of the verb and valency changing devices. The valency classes are discussed in the rest of this chapter. I will generally follow the classification in Pinkster (2015, chap. 4); some verb classes enumerated by Pinkster are discussed in more details in chap. 14, since a full account of their behaviors is closely related to the structure of complement clauses.

A list of semantic classification of verbs – and hence valency classes – can be found in Dixon (2005, Part B), Dixon (2010, § 18.5), and Dixon (2009, § 3.3). Dixon classifies the verb class into three subgroups: 1. Primary-A, which contains verbs that don't take arguments with meanings similar to those of complement clauses, 2. Primary-B, which are semantically **complement-taking** and **lexical**, which have arguments that are semantically equivalent to complement clauses (but not necessarily syntactically coded as complement clauses) and have meanings more complicated than what's expected for grammatical items, and 3. Secondary, members of which have the same *meaning* of certain grammatical

constructions in the verbal system, but not the same syntactic properties (for example, they may just take complement clauses instead of being auxiliary verbs).

Box 9.2: Syntax, semantics, and the interface

A Secondary verb is different from a grammatical category in the verbal system in the eye of syntax and at the syntax-semantic interface:

The argument roles Dixon gives are also purely semantic and verb-dependent. For a more unified terminology on semantic roles – which lies around the syntax-semantic interface and may possibly be actually syntactic categories – see [Huddleston and Pullum \(2002, § 4.2\)](#).

This chapter is mainly about verbs that don't take complement clauses as arguments. The phenomena discussed in this chapter mostly apply to complement clause constructions as well, but complement clause constructions have their own peculiarities (§ 14.1).

9.1.2 The subject

Latin is an accusative language. A **subject** can be identified for all clauses, though it is frequently omitted. Grammatical behaviors of the subject are summarized in the following list:

- *Coding of semantic role*: In an active clause, the subject is always the most agentive argument, i.e. the S argument in a prototypical intransitive argument structure and the A argument in a prototypical transitive argument structure. In a passive clause, the subject corresponds to the “promoted argument” (§ 10.1).
- *Case marking*: Subjects are always nominative for finite clauses, whenever the case system is in action, i.e. whenever the subject is an NP or a gerund. Nonfinite clauses may be argued to be subjectless in the surface form (a reasonable claim, since they have deficient TP layers, and hence it is possible that no canonical subject position exists), but in accusative-infinitive constructions, the accusative may be seen as the non-canonical subject of the infinitive.
- *Agreement*: the number and person features on the subject leave marking on the verb complex. Latin does not have verbal agreement with arguments other than the agreement with the subject.
- *Category*: a subject is an NP or a complement clause (§ 14.1), usually an infinitive but never a gerund (§ 4.4.1). This constraint isn't seen in any other clausal complement types.

9.1.3 The direct object

Here is a list of grammatical properties of the direct object:

- *Coding of semantic role*: In a prototypical transitive argument structure, the direct object is the O argument, i.e. the most patientive argument.
- *Case marking*: Direct objects are always accusative when it makes sense to talk about case – but not all accusative arguments are direct objects (§ 4.1.2.1).
- *Passivization*: If an argument is coded as the direct object, then it can regularly be promoted to the subject position in a passive clause (§ 10.1). Secondary objects are less frequently promoted in passivization (§ 4.1.2.1).

9.1.4 The indirect object and the secondary object

Latin also has two complement positions named as object: the indirect object and the secondary object. The indirect object is distinguished by the following grammatical properties:

- *Coding of semantic role*: in a AGT-type argument structure, the indirect object is usually the G argument. Intransitive clauses sometimes also have indirect objects, and an indirect object, in this case, is also a G argument.
- *Case marking*: indirect objects are always dative.

- *Passivization*: indirect objects are always retained in passive clauses. They are never promoted to subjects in passivization.

The secondary object is distinguished by the following grammatical properties:

- *Coding of semantic role*: in an AGT-type argument structure that is always about information flowing, the T argument (i.e. the thing asked about or taught about) is the secondary object. The G argument (i.e. the person who is asked or taught) is the direct object. Sometimes the G argument is ablative, and in this case, there is only one accusative argument: the secondary object. Another place where secondary objects appear is clauses headed by a verb with a compounded accusative preposition.
- *Case marking*: secondary objects are always accusative.
- *Passivization*: secondary objects can be passivized, but much more rarely than direct objects.
-

The distributions of the secondary object and the indirect object are mutually exclusive. This means for ditransitive verbs of type GIVING, Latin shows a clear and strong tendency to identify the T argument with the monotransitive O, while for ditransitive verbs about teaching, the inverse is true.

Box 9.3: Comparison with English

It can be found that the Latin indirect object has more similarity with the English *to*-PP, which is also called the indirect object in some grammars, but not CGEL. The Latin indirect object differs from the English (accusative) indirect object in passivization. Since in Latin, verbs with AGT-type argument structure do not have alternation of complementation pattern – in English we have *give sth. to sb.* and *give sb. sth.*, while in Latin there is only the former one, but *to sb.* is replaced by a dative, (always with no preposition) – the G argument is identified with the E argument, and the T argument is identified with the O argument. In other words, in Latin, there is only the *John gave [goods]_T to [charity]_G* pattern: the double-object *John gave charity goods* pattern is absent.

Therefore, for typical ditransitive verbs, i.e. verbs like *give*, Latin shows a clear and strong tendency to identify the T argument with the monotransitive O, which is more typical than English^a, but for verbs with meaning of TEACH or ASK, there is also a clear and strong tendency to identify the G argument with the monotransitive O. The term *secondary object* is coined to cover this grammatical position.

^aIn English, in the *give sb. sth.* construction, it is the person i.e. the G argument that is passivized, while the T argument i.e. *sth.* cannot, though the latter is identified with monotransitive O according to other criteria.

9.1.5 Copular complements

Latin also has copular complements. A copular complement, just like its counterpart in English, basically can be viewed as a displaced attributive or appositive (and hence is prototypically filled by an NP or an AdjP) but is a little more peripheral (manner, state, factitive, etc.) in its meaning than an attributive or appositive. Latin has nominative predicate and accusative predicate: as hinted by their names, the nominative predicate is roughly about the subject and agrees with it, and the accusative predicate is roughly about the direct object and agrees with it. In passivization of the direct object, the accusative predicate becomes the nominative predicate.

9.2 Peripheral arguments

Beside the subject, various types of objects, and copular complements, there are more peripheral clause dependents (or “adjuncts” in the terminology of Huddleston and Pullum (2002)), like purpose, direction, location, etc. Besides clauses and NPs (with or without prepositions), their categories also include adverb phrase (AdvP)s, which is an etymological origin of AdvPs.

Latin peripheral arguments do not necessarily have prepositions. This fact, together with the fact that Latin is highly free-ordered, highly *pro*-drop, means telling core arguments from peripheral arguments difficult. The criteria of category, position, and argumenthood in Huddleston and Pullum (2002,

§ 4.1.2) all fail to work, and since the problem is how to tell adjuncts from adjunct-like complements, the criterion about role also fails. Latin doesn't have systematic way to replace the core predicate (i.e. without adjuncts) by an anaphora, and that criterion does not work, either. The remaining criteria are about selection, licensing, and obligatoriness.

9.2.1

9.3 Prototypical intransitive verbs

9.3.1 The MOTION type

9.4 Prototypical transitive verbs

With complement-taking verbs temporarily excluded, a prototypical transitive verb is more or less close to the AFFECT type, with an A argument which is the causer of the event

9.5 Copular verbs

9.5.1 The verb *sum*

Chapter 10

Valency changing

10.1 The passive

10.2 Preverbs

preverb

Chapter 11

Adverbials

Peripheral arguments may also be regarded as adverbials. This chapter, however, is mainly about mean,
TODO

tam quam

Chapter 12

Clause structure

12.1 Constituent order and the information structure

Chapter 13

Clause linking and conjunctions

Chapter 14

Complement clause constructions

14.1 Overview

Chapter 15

Relative constructions

Chapter 16

Examples of texts

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