

Reading notes of Cambridge Grammar of English Language

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This note is a reconstruction of the contents The Cambridge Grammar of the English Language (Huddleston and Pullum 2002, henceforth CGEL).

1 Theoretical preliminaries

For the discussion on the underlying theoretical framework, see the relevant chapter in [this note](#). Briefly speaking, the framework is coarse-grained Minimalism: invisible functional heads are erased, but dependency relations created by the functional projections are kept (Fig. 1(a)), and the corresponding CGEL tree is obtained by replacing the name of dependency relations by syntactic function-form pairs (Fig. 1(b)). The head is defined as the dominant *lexical* word. This makes CGEL look like old-fashioned X-bar theory, where a lexical word projects into a phrase (CGEL § 5.2 [5]), but there can be several “maximal projections” headed by the same lexical word (CGEL § 5.2 [11]). This is actually consistent with Minimalism (Fig. 2).

The standard of “lexical”, however, varies from one author to another. A PP and a CaseP (in generative terms) are similar objects, but in the coarse-grained CGEL framework, the latter is definitely an NP, while the status of the first is kind of controversial: should we recognize the preposition as a lexical word, or as a functional word? In the first analysis, a PP in generative terms is still a PP, while in the second analysis, a PP in generative terms is an oblique NP. Choosing between the two analyses is merely a problem of notation. But it is good practice to choose a notation that hints the readers about certain properties of the construction in question. For example, if a PP is analyzed as a PP, then probably the preposition has some predicative properties: a PP is therefore more like a VP, not an NP with case marking (or “CaseP” in generative terms, especially in theories focusing on morphosyntax and do not make sharp contrast between syntax and morphology). If, however, prepositions in a language work just like case markers, the argumentation raised in Dixon (2009, § 1.11, § 5.4) is then attempting: we should recognize the prepositions as case markers with standalone phonological realizations. Which analysis to choose should be decided according to observed phenomena. This is summarized by the slogan “describing a language in its own terms” – but the slogan does not go into conflict with generativism.

Not all dependency relations can be expressed purely by the context-free phrase structure grammar (Pullum and Rogers, 2008). Movements (or cross-serial dependencies in dependency terms) in Minimalism are represented by a gap (CGEL § 2.2 [5]), or by indirect dependency (CGEL § 5.14.1).

The close relation between CGEL and generative syntax apparently deviates from the common descriptive practice, especially the common descriptive framework extracted and summarized by Dixon (2009, 2010, 2012) and named Basic Linguistic Theory (BLT) by Dixon, but this distinction is illusory: while BLT assumes a flatter phrase structure, information coded by the binary-branching phrase structure in CGEL is coded by dependency arcs in BLT (Fig. 3), and the hierarchy ordering of the dependency relations are coded by notions like “pipeline ordering” and “scope”, e.g. “a prototypical passive construction takes in an AVO argument structure and turns the deep A into the surface S, the deep O into the surface E” (which in generative terms means VoiceP is higher than *vP*), and “the scope of *the* in Fig. 3 is *fat man*, indicating that the latter is definite, and the scope of *to* is *the fat man*”.

Though several disagreements with the mainstream generative syntax is raised in CGEL, and much more severe accusations are made in BLT, it can be seen all the three approaches are describing

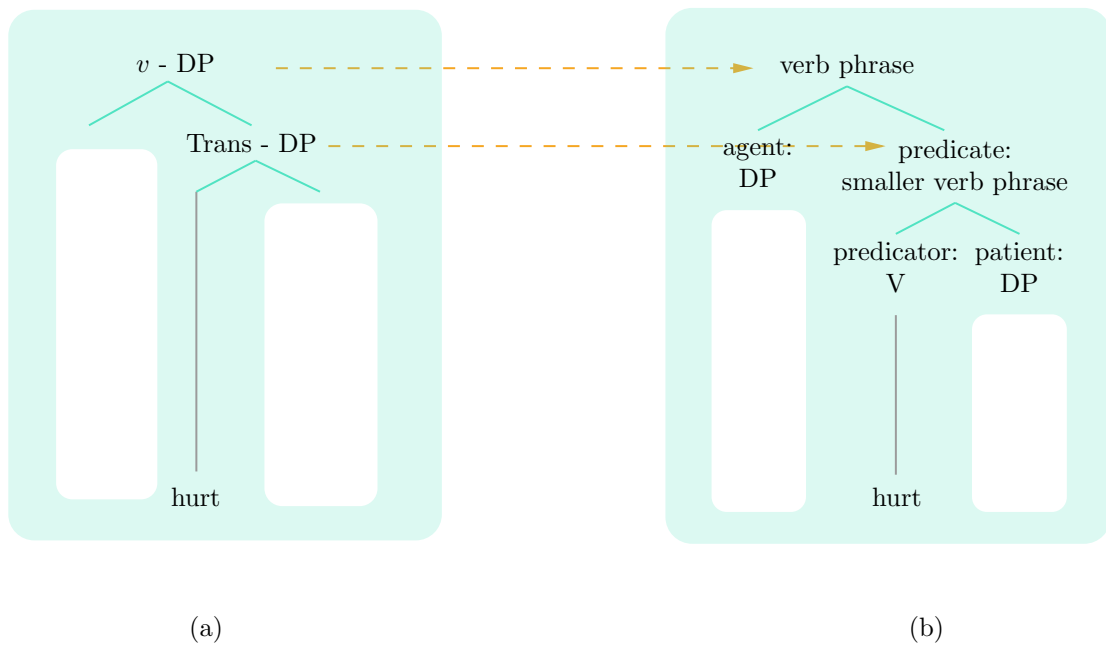


Figure 1: From coarse-grained Minimalist derivational tree to CGEL tree

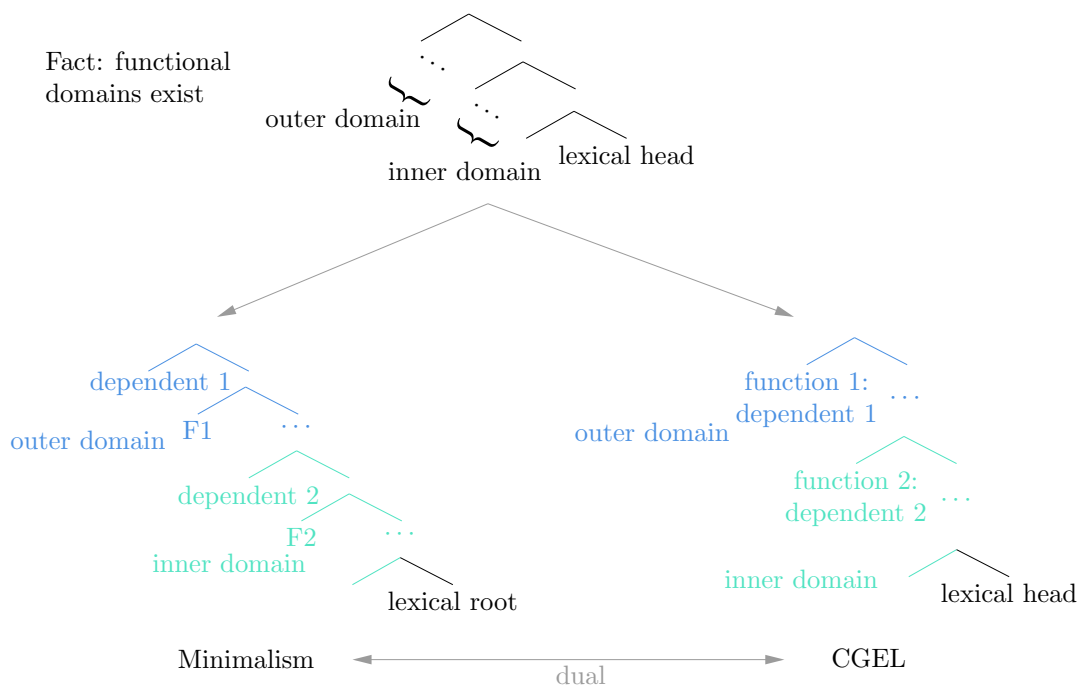


Figure 2: Duality between CGEL and Minimalism

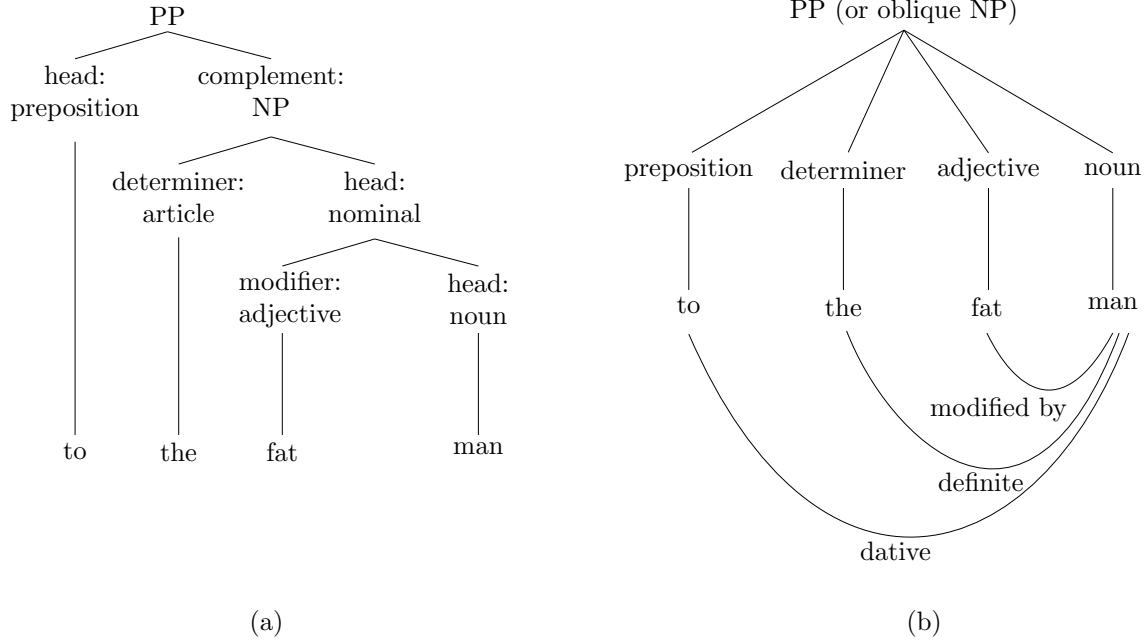


Figure 3: Comparison between the CGEL and BLT analyses of *to the fat man*

almost the same complexity class of grammars.¹

It should be noted that even though CGEL comes close with the lexical decomposition-style Minimalism, sometimes binary branching is still not available in the surface-oriented analysis, and some words about the underlying dependency relations beside the tree is needed, just as in the case of BLT. An example is ditransitive verbs. Even though in generative analysis we have plenty of reasons to assume a *vP* structure like [somebody [something SHOW]] in the clause *I showed him the photo* (possible reasons including binding effects, passivization preference, etc.), the head movement (or its post-syntactic version) breaks the binary branching structure in the surface-oriented analysis of the clause, and hence in CGEL we get a (quite infrequent) ternary tree (CGEL § 12.3.1 [4]). Another example is supplementation. This type of constructions shows significantly weaker dependency between the “anchor” and the inserted supplement. In generative syntax, supplementation can be analyzed as a result of PF-level clause reformulation, with major disruption of the constituent structure of the host clause, which tempts lots of people to analyze the phenomenon as a result of an idiosyncratic structure building mechanism beside Merge (Ott, 2014). Therefore, in CGEL, supplementation is recognized as a construction type, but the supplement and the anchor are not recognized as a constituent (CGEL § 15.5.1 [12]). It is practically not possible to insist on both binary branching and surface-oriented analysis. The difference between CGEL and BLT is therefore more about quantity instead of quality.

¹Well, strictly speaking, they may not, because when formalized, a grammatical theory often allows some strikingly weird productions, which arise from corner cases ignored in the formalization. But these corner cases can be, in principle, rules out by watching how linguists use the formalism in everyday work: some derivational devices are never used, weird interplay of features that trigger unexpected movements is never considered, some phrase structure rules in BLT are possible but never appear in actual reference grammars, etc. In a word, the complexity class of grammars supposed in a grammatical theory is not just determined by the explicitly articulated formalism. What is fed into the formalism is equally important.

2 Overview of clause structure

2.1 The pipeline of clause building

This section and several following sections are about the phrase structure of the clause. I will discuss clause dependents, their forms and functions, grammatical systems in the clause, and how everything is put together.

Clausal grammars of nominative-accusative languages can fit more or less into the following paradigm:

1. Clausal complements are fed into the argument structure² or in other words *v*P. They may be NPs, adverbials or subordinated clauses.
2. Then several clausal grammatical systems are employed on the verb-complement complex or “small clause”, including agreement (or argument indexation more generally), case marking³ and non-spatial settings (or Tense, Aspect, Mood, Evidentiality (TAME) as people call them). The syntactic prominence of the subject is also introduced in this stage (commonly known as TP), but without adjuncts it is hard to see the structural prominence of the subject, and without question formation, etc, it is hard to see the consequences of the prominence. The result of these steps, after including obligatory speech act marking, is a minimal canonical clause.
3. Several adjunctions can be made to the minimal clause, conveying information like time, position, manner, etc. This step may be seen as an additional one, or it may be considered as occurring together with TAME. In the latter analysis, we need an explicit subject promoting analysis, which makes the subject in a higher position than any other complements. The result of these steps, after including obligatory speech act marking, is a canonical clause.
4. Speech act information (or “force” in generative terms, or “mood” in BLT) – declarative, interrogative, imperative – are added to the result of TAME marked and possibly adjoined small clauses. These stages occur in the CP domain.

After these steps, the clause is now fully assembled. If the speech act information marked meets the standards set in the language (e.g. the clause is finite, there is no subordination markers like a complementizer, etc.), the clause is a qualified *sentence*, i.e. it can occur independently in utterance. But it can be embedded (or subordinated) into other clauses, too, probably with some additional marking. A clause without any subordinated clauses as complements or adjuncts is called a **simple clause**. Otherwise it is a **complex clause**.

The declarative marking is often (but not always) zero, and in this way there is no obligatory speech act marking for clauses.

5. The canonical clause may further undergo processes like topicalization or focusing. This makes it non-canonical.

Topicalization and focusing may be analyzed as happening together with speech act marking and/or subordination. In the classical generative analysis, the CP domain is roughly Force-Focus-Topic-Finiteness, with the left feature being introduced after the right feature. Subordination involves both finiteness (gerund clauses can be subordinated, but they are never

²This is not the term used in CGEL. For discussion on *argument* and *complement*, see § 3.1.1.

³Technically, case marking involves the argument structure. The nominative-accusative alignment, for example, can be summarized as “the patient-like argument of a transitive verb receives the accusative case, while anything promoted to the subject position receives the nominative case”. In more generative terms, we have “the transitive *v*P (or some functional projection lower than Spec*v*P) assigns the accusative case, while T assigns the nominative case”. The first half of the generalization means the assignment of the accusative case is directly related to the argument structure. But we can change the wording of the above generalization easily. For example, an equivalent formulation may be “in the TP, any DP with a lower position than some DP else receives the accusative case, while the subject receives the nominative case”. Yet we have a third expression: “in the TP, DPs receive the accusative case as the default case, while the subject receives the nominative case”. It is therefore acceptable to take case marking completely away from the argument structure.

independent sentences) and force (subordinated clauses often have limited force choices, and the complementizer has to be introduced at a certain position). So in this analysis, there is no strict time ordering between topicalization etc. and subordination.

But it is also possible to introduce topicalization and focusing with transformational rules, since most grammars are much more surface-oriented. In this case, it still makes sense to say one happens after another.

Transformational rules are largely abandoned in contemporary generative syntax. In a surface-oriented grammar, transformational rules does not say anything about the plausible generative derivational⁴ process in our brain. If construction A and construction B are connected by a transformation, it merely means the derivational process of A and B have some similar stages and there is a uniform correspondence between them.

6. There are usually certain kinds of valency-changing devices. They may be implemented by a Latin-like voice system, or by auxiliary verbs the subject of which undergoes an event, and the complement of which is a clause or small clause indicating the event, or by certain kind of *v*P constructions. There are no strict boundary between these strategies. Combination of these devices, like Collins (2005), is also possible. Just like the case of arguments and adjuncts, and the case of topicalization and speed act marking, passivization can be described with a derivational account as in contemporary generative syntax, as well as a transformational approach.
7. Each stage of the above processes may be grammaticalized or be realized by a grammaticalized construction. The so-called Chinese passive construction, the *bei*-construction, is just a grammaticalized complement clause construction with the verb *bei* expressing a meaning of “suffer from”.
8. Finally, sentences and clauses can be coordinated and undergo supplementation.

The pipelines of the machine of English clause structure is also organized in this way. Valency is an enduring topic in English grammar. Tense and aspect (usually denoted together as *tense*) appears in every introduction of the English language: do something, did something, be doing something. The subjunctive mood (or “modality” in BLT) is especially necessary in formal or archaic writing. English adverbs are traditionally ignored but are more complicated than many will think. The list can be very long.

2.2 Canonical clauses and their inner grammatical relations

CGEL uses the strategy to first describe a canonical clause and then use syntactic processes (or transformational rules in generative terms) to derive non-canonical ones. Several syntactic processes may be used together to derive a clause with multiple non-canonical features.

It should be noted that when the definition of canonical clauses is narrow (a wise decision leading to easier starting), it is possible that some non-canonical clauses cannot be obtained by applying well-recognized syntactic processes (CGEL § 2.2 [3]). This is shown in Fig. 4.

It is already reviewed in § 2.1 that clauses, strictly speaking, are fully marked with speech act information and hence are CPs themselves. Some people use the term *clause* for TPs and *sentence* for CPs. This does not agree with the acceptable terminology in surface-oriented studies, since a pure TP without CP layers rarely occurs. Therefore, in CGEL, the pipelines of clause building is not made quite clear: the approach accepted is to present grammatical relations as *static* ones.

Here is a demonstration about this static approach. Recall Fig. 3. Though (a) has more embedding hierarchies than (b), while (b) uses dependency relations in lieu of the binary branching hierarchies, both of them are static ones: (a) is presented in the grammar *as a whole*, i.e. the grammar does not treat (a) as built by first merging *fat* and *man* and then merging the result with *the* and then *to*. Rather, once a PP is discussed, all grammatical relations involved – attributive

⁴From then on, *derivational process*, etc. all mean Minimalist ones, i.e. Merge-based ones. But *derived* may be associated with surface-oriented transformational rules.

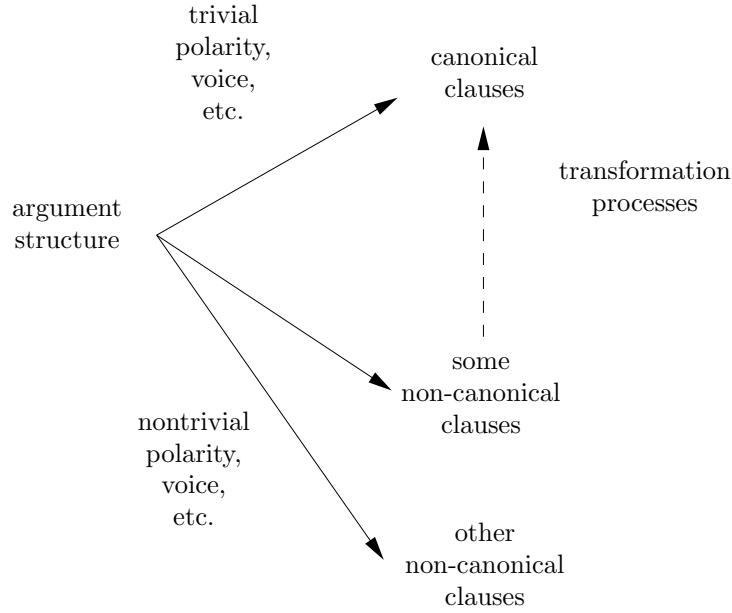


Figure 4: Building up canonical and non-canonical clauses

modification, definiteness, dative construction – are considered as completed. Similarly, when talking about a clause, all grammatical relations in the clause is considered as already given in CGEL. We *do not* describe the structure in terms of Merging elements. The discrepancy between CGEL and BLT is merely that the former uses hierarchy structure to show grammatical relations while the latter uses dependency arcs.

It should also be noted that though the CGEL approach is mostly static and not derivational, its analyses are not idiomatically representational, either, for the obvious deviation from approaches like HPSG. It is best described as Tree-adjoining grammar (TAG)-like. Sometimes, the pipeline notion is of descriptive benefits, because some syntactic processes definitely work in order: for example, subject-auxiliary inversion always happens before *wh*-fronting. This is discussed in CGEL § 2.2: “Main clause interrogatives ... will thus have one prenucleus + nucleus construction ... functioning as nucleus within another ...”

2.2.1 Canonical clauses

A **canonical clause** is a standalone, declarative, active clause consisting of only the verb complex (*do* or *has done* or *be doing* or ..., i.e. the verb phrase in BLT), complements and adjuncts. A **minimal canonical clause** does not have adjuncts.

This definition means negative clauses are not canonical, because *not* is an additional clausal dependent. An interrogative clause is not canonical, since it is not declarative and has prenucleus dependents – the fronted verb and, if any, the *wh*-expression. A passive clause is not canonical. A subordinated clause is not canonical, because even though it is declarative and active, it is not standalone. (CGEL § 2.2 [1])

2.2.2 Clausal complements and the argument structure

Though the starting point of the building process of all clauses is the argument structure, CGEL starts chap. 4 with discussion on clausal complements. This is a wise decision for a largely surface-oriented grammar, and also does not obscure the argument structure, because how the arguments (or non-argument complements) of the verb fills the *clausal* complement positions is largely based on the structural distribution of these arguments in the *vP* structure. In other words, the clause

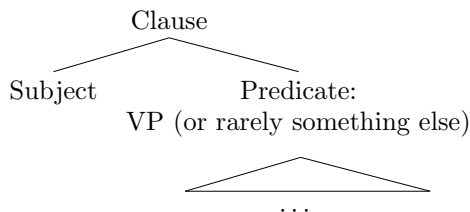


Figure 5: A minimal canonical clause is made up by a subject and a predicate

complement positions – subject, direct and indirect objects, etc. – are *syntactic* marking of coarse-grained S, A, O, E arguments, which reflect the relative positions of arguments in *vP*.⁵

For discussion on various complement positions and their correlation with the argument structure, see § 3.1.

2.2.3 The subject

English is a subject-prominent language. This is to say, in every clause there is a **subject** (which may be omitted in limited cases) which is usually filled by an agent-like argument and is somehow “higher” and external in the clause structure, and therefore is subject to several types of extraction, including relativization and coordination pivot.

In typological terms, this means English is a syntactic nominative-accusative language, because its syntactic obligatory topic (something somehow “higher” in the clause structure, but lower than the topic in topicalization) is identical to the agent-like argument.⁶ In ergative languages the notion of *subject* is more complicated, because in transitive clauses, the two do not coincide. But this is not the case for English.

The external property of subjects means we have the tree diagram Fig. 5. The rest of the clause is named the **predicate**, which is mostly a VP, but in some cases can be verbless (CGEL § 2.14 [1]). Since functional heads in the *vP*-TP-CP hierarchy may be viewed as realized on the verb, the ultimate head is the verb, and in Fig. 5, the predicate is the head.

For details about the subject position, see § 3.3.

2.2.4 Agreement

Agreement, if any, is only found between the subject and the highest verb in the predicate, be it the main verb or an auxiliary verb. For details see § 4.3.

2.2.5 Objects, predicative complements, and others, and the structure of a minimal VP

A VP always start with a verb. What follow the verb are inner complements. In English possible complements include objects and predicative complements. The complexity of dependency relations inside the VP blocks the possibility to represent them with a constituency tree without movement, and hence CGEL presents the inner structure of the VP as a multiple-branching tree (CGEL § 12.3.1 [4]). The scheme of VPs is shown in Fig. 6.

Note that complements are not necessarily referential, not even lexical. Referential complements that are typically filled by NPs are **objects**, and strongly predicative complements are **predicate complements**.

⁵O is the label of the patient-like or *patientive* argument in BLT. In many modern grammars, the symbol is replaced by P. In this note the symbol O is used to be consistent with the notation in CGEL, though CGEL itself uses O as a symbol of clausal complements.

⁶In languages like Chinese, though when a semantically obvious agent is present, it is always the syntactic obligatory topic, there are quite common clauses in which the subject is not agent-like at all, like the famous *tai shang zuo zhe zhu xi tuan*. But a deeper analysis will show that this can be attributed to the rich light verb inventory of Chinese, which may be understood as “mini-voice” in more descriptive terms, and therefore does not impose any threat to the nominative-accusative status of Chinese.

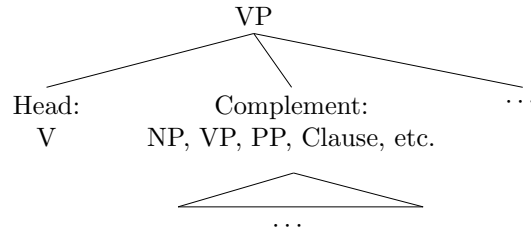


Figure 6: The inner structure of a VP

There are also adjunct-like complements for some verbs: the adverb *badly* in *he treats us badly*, the PP *to her article* in *he referred to her article*, etc. The adverb complement can usually be replaced by a PP (§ 2.2.8). Prepositional complements can similarly be divided into object-like ones and predicative complement-like ones (CGEL § 2.4 [4]).

There is yet a final class of complements: **particles**. Particles are preposition-like but are able to appear after the NP connected with it.

2.2.6 Case marking

In

2.2.7 Tense, aspect and mood

Tense is the grammatical category about obligatory time marking. Aspect is the grammatical category about obligatory marking of the temporal organization of the action. Mood is the grammatical category about modality – though BLT uses *modality* for *mood* in CGEL and *mood* for *clause type* in CGEL.

In CGEL, the perfect-imperfect contrast is placed under tense, not aspect.

2.2.8 Adjuncts

A VP may have left or right adjuncts. *Adjunct* is the synonym of *clausal modifier*, or *adverbial* in some grammars. Adjuncts may also be added to the left of a minimal canonical clause. It should be noted that adjuncts of different functions fill different positions and are by no means *adjuncts* in early version of generative syntax. They are actually peripheral arguments in BLT. This is even the case for adverbs: adverbs can be almost straightforwardly (but not always: some additional thinking is needed to transform some adverbs to PPs) replaced by PPs which codes peripheral arguments that can be filled by NPs denoting abstract properties (e.g. from *exceedingly* to *in an exceeding manner*).

2.3 Non-canonical clauses without prenucleus

This section is about non-canonical clauses that largely keep the structure of canonical clauses, so structural analyses of canonical clauses like Fig. 5 still works.

Below I collect non-canonical constructions, with the order from more internal ones to more external ones.

2.3.1 Polarity

2.3.2 Voice

2.3.3 Finiteness

A nonfinite clause is a clause that obligatorily lacks some TP and/or CP functional projections, often resulting in inability to have a typical subject (since the TP layer is somehow quirky). It may be considered as somehow nominalized and the nominalization degree is deeper than content

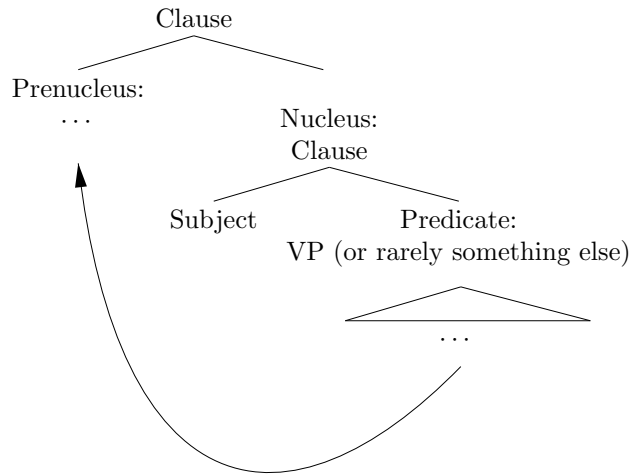


Figure 7: Prenucleus positions

clauses, since its main role is to fill argument slots, and unlike finite content clauses that can be a sentence with a minimal transformational, the nonfinite clause can never be a full sentence. It can still constitute a short reply to a question, as in – *What are you doing?* – *Doing my midterm project*. But NPs have this function, too.

In English, nonfinite clauses are either participles or infinitives. None of them is able to have a typical, nominative (if realized as a pronoun) subject, and all of them have distinct morphosyntactic marking.

It should be noted that participle differ from “genuine” nominalization. A participle takes object(s), while a nominalized verb does not.

2.3.4 Clause types

In CGEL, **clause type** means Force in generative syntax and mood in BLT. In English there are the following clause types: declarative, closed interrogative, open interrogative, exclamative, imperative.

The clause type is the syntactic coding of **illocutionary force**: an imperative clause expresses a direct illocutionary force. But illocutionary force need not be coded as the clause type: *would you please ...* is formally interrogative, but it is often a polite directive. In this case, the illocutionary force is indirect.

2.3.5 Subordination

2.4 Prenucleus

Some non-canonical clauses go further: something is promoted to a position even higher than the subject. Such positions are called **pre-nucleus** positions (CGEL § 2.2 [5]), and we get a structure like Fig. 7.

2.4.1 Subject-auxiliary inversion

2.4.2 Interrogative

2.5 Information packaging

§ 2.3 and § 2.4 are about transformations on canonical clauses, about what feature triggers what transformation, and relevant syntactic positions that are not observed in canonical clauses. There

are, however, constructions of which constituency analyses involve nothing more than § 2.3 and § 2.4 but are unable to show the information structure of these constructions. The constituency tree of a *there be* construction is just an instance of the canonical clausal structure Fig. 5, with the subject being a dummy *there*, but from the constituency tree one cannot infer confidently the existential meaning.

Without considering the information structure, the way perfect aspect is realized in English resembles the example of the *there be* existential construction in that its meaning is not combinatory: in *he has done this before*, the main verb may be analyzed as *has*, which agrees with the subject (§ 2.2.4) and takes the past participle VP *done this before* as its complement. In the VP *done this before*, *before* is an adjunct, and *this* is the object. The structure is crystal-clear. The only problem is the true meaning of the clause cannot be inferred from the structure. However, the perfect aspect is not marked with respect to the information structure, so it is not introduced in the chapter about information packaging in CGEL.

2.6 Coordination

The English clausal coordination construction is largely symmetric, though there are reasons to believe the second clause and the coordinator form a constituent. Since the coordination head is realized as a single word but is by no means lexical, it is impossible to assign the head status to any lexical word as in Fig. 2, and therefore in CGEL, coordination is deemed as a headless construction.

2.7 Supplementation

2.8 The organization of chapters in CGEL

3 Complements and adjuncts

3.1 Types of complements

Clausal (or verbal, since the clause is headed by the verb) complements may be NPs and PPs, and less frequently, adverbs (as in *He treated us [kindly]*).

This section lists some criteria of classification of complements. They are all discussed in CGEL § 4.1.1.

How to tell a complement from adjuncts is a question addressed in § 3.7. § 3.7 is delayed after discussion on complements and adjuncts, because we have to first show prototypical properties of the two and introduce necessary concepts like how semantic roles are coded as clausal dependents, and only then can we draw an exact line between the two.

3.1.1 Core v.s. oblique

One classification standard is the make up of the complement. A **core** complement is a complement with similar morphosyntactic properties of NP complements. A **non-core** complement is a complement with similar morphosyntactic properties of PP complements. If a non-core complement itself takes an NP complement (or something with similar morphosyntactic properties), the latter is called an **oblique**.

Note that in CGEL, the term *argument* is reserved for purely semantic objects. A clausal complement is therefore the syntactic incarnation of an argument, but itself is not an argument. This is not the way *argument* is used in BLT.

It should also be noted that in CGEL, the terms *non-core* and *oblique* are reserved for clausal complements and the NP part of PP clausal complements. They *do not* include adjuncts with similar forms. On the other hand, in BLT, the term *peripheral argument* covers both complements and adjuncts. The term *oblique* is often associated with *oblique cases*. In traditional Latin grammar, cases other than the nominative and the vocative cases are all called oblique cases. In other usages, oblique cases exclude the accusative case. In English the case system has largely collapsed, and

the name *oblique* does not have much morphological consequences: an oblique complement is never nominative as we will see, and that is all.

The prototypical definition of core and oblique complements are based on syntactic forms instead of functions, while the definition is extended by analog with respect to syntactic functions. Whether these terms are useful is a question we need to wait and see.

3.1.2 External and internal

The subject is the **external** complement for obvious reasons. All other complements are **internal**.

In English, internal complements include **objects** and **predicative complements**. The objects split into **direct objects** and **indirect objects**. Objects are prototypically NPs, while predicative complements are predicative.

3.1.3 Relation with the argument structure

In the typological perspective, both the coarse-grained argument structure and the coding strategy of the argument slots (or semantic roles) as clausal complements are quite straightforward in English.

The argument structure of any verb in English fits into the S, A, O, E paradigm in BLT. Some typological studies have G and T abstract semantic roles, but in English no goal-like and theme-like semantic role classes with stable syntactic appearance can be established. Consider, for example, the example in BLT § 3.3 (6) and (7), with semantic role labels replaced by ones in CGEL § 4.2.2:

- (1) John gave [all his goods]_{O, theme} [to charity]_{E, goal}
- (2) John gave [his favorite student]_{O, goal} [some books]_{E, theme}

The PP *to charity* and NP *some books* have similar syntactic behaviors, and in a similar manner, *all his goods* and *his favorite students* form another group of arguments with similar syntactic appearance. The first two cannot be promoted to the subject position in passivization, while the latter two can. It is, therefore, reasonable to name the group containing *all his goods* and *his favorite students* with the label O, and name the group containing *to charity* and *some books* with the label E. Note, however, there are some heterogeneity in each group: *all his goods* is a theme while *his favorite student* is a goal, but they have similar syntactic properties. So the division between O and E is useful in English (which is also shown in footnote 26 in CGEL chap. 4), while the division between G and T is not.

In canonical clauses, A and S arguments are consistently coded as the subject, both syntactically and, in the case of pronouns, morphologically. No split of S arguments is easily observable. O arguments are uniformly coded as clausal objects. E arguments may be coded as clausal objects (as in (2)) or obliques (as in (1)).

3.2 Types of minimal canonical clauses

The contents of § 3.2.1 and § 3.2.2 are covered in CGEL § 4.1.1.

3.2.1 Subject and object(s): transitivity and valency

In English every clause has a subject, so the number of subjects is not a parameter. The number of objects may be 0, 1, and 2, which is denoted as **intransitive**, **transitive**, and **ditransitive**. This parameter is named as **transitivity**.

3.2.2 The number of predicative complements

There may be 0 or 1 **predicative complement (PC)**. It is impossible for a ditransitive clause to have a PC. So the parameters of transitivity and PC gives the classification of clauses with respect to their complements as in CGEL § 4.1.1 [9]. Hence we have the notion of **valency** (CGEL § 4.1.1 [10]). The number of PC is not included into the valency.

CGEL § 4.1.1 [9] is just the classification based on S, O, and PC. It does not mean there are no other complements that do not fit perfectly in the paradigm.

3.2.3 Five canonical clauses

3.3 The subject

3.4 Direct and indirect objects

3.5 Types of adjuncts

3.6 Semantic roles

Once clausal complement positions are related to coarse-grained argument positions (§ 3.1.3), the question becomes how concrete semantic roles of verbs fit into the paradigm.

3.6.1 The causer-like group

3.7 Distinguish complements from adjuncts

3.8 Summary

4 The verb

4.1 Syncretism in English

This section deals with subcategories in the verb category, and how the verb changes its form according to the syntactic environment. Relevant syntactic categories include finiteness (§ 2.3.3), tense, aspect and mood (§ 2.2.7), voice (§ 2.3.2), and agreement with the subject (§ 2.2.4). These syntactic categories are all prototypical ones in Indo-European languages. Note, however, in CGEL these features are not considered as the features of the verb itself, but the clause. If these features are placed on the verb, then the verb *play* in a subjunctive clause is a homonym of the verb *play* in an indicative clause, but anyone will consider the two identical inflectional forms.

This does not mean these features do not play any role in distinguishing inflectional forms. Another extreme of morphological analysis is to inserting all inflectional forms with the same surface appearance into one inflectional class. This is also not the approach taken in CGEL. To see the problem with this approach, consider the example of Latin fourth declension. What is in common between the genitive singular and the nominative plural? It definitely makes no sense to regard them the same.

The criteria to distinguish inflectional distinctions are shown in CGEL § 5.1.2 [5]. It rejects the approach placing features like finiteness, tense, etc. on the verb, which is essentially the traditional grammar approach⁷ (chap. 3 footnote 1): the uniformness of the finite part of the so-called inflectional paradigm of English verb means this part should be compressed into just three inflectional forms. It also rejects the approach positing minimal inflectional distinctions. It is often said that English has five verbal inflectional forms: *take*, *takes*, *took*, *taking*, *token*. But modal auxiliary verbs do not appear in infinitives: the present tense form is therefore to be split into two according to CGEL § 5.1.2 [5], one appears in a finite environment, the other appears in a non-finite environment. In the latter environment, modal auxiliary verbs are constantly absent, therefore constituting a stable contrast between modal auxiliary verbs and lexical verbs, while in the former environment there is no contrast between the two. This split may be viewed as based on the finiteness category, and not purely on the surface appearance of the verb.

CGEL § 5.1.2 [5] accidentally rejects the analysis of Latin noun declension that combines the genitive singular and the nominative plural, because the identification of the two does not work for, say, the third declension, so with the same logic that makes distinction between the finite and infinite *take*. But suppose we have an imaginary language in which in all noun declension classes, the genitive singular and the nominative plural have the same surface realization. In this language,

⁷Note, however, the traditional inflectional paradigm is still useful though cumbersome: it visualizes possible environments verbs may appear in.

CGEL § 5.1.2 [5] is not sufficient to reject temptation of analyzing the two as one inflectional form. Fortunately, this is not the case in English, and I do not proceed more on inflectional paradigms.

4.2 Transitivity and valency

4.3 Agreement with the subject

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