

The apparent empirical variation in morphological case can be constrained along at least three dimensions: variation in the expression of core arguments; overt vs. covert expression of case; and a distinction between argument and adjunct cases.

Cross-linguistic accounts of the variation in case marking among core arguments employ three argument-structural primitives: S – the sole argument of a one-place verb; A – the agent or most agent-like argument of a two-place verb; and P – the theme (patient) or most patient-like argument of a two-place verb (Comrie 1978; 1989; Dixon 1994 among others). The three most common morphological case systems are “accusative”, “ergative”, and “neutral”. Case systems where S and A are marked alike and contrast with P are known as “accusative”; such systems are well known from Latin, Greek, and the Balto-Slavic languages. This system is illustrated in (2), for Russian, and (3), for the Cushitic language Harar Oromo. The Russian example illustrates the cross-linguistically typical nominative-accusative pattern; Harar Oromo instantiates a morphologically less-frequent pattern where the nominative is overtly marked, but the accusative is not.

(2) a. starušk-a odnaždy s bazara prišla *Russian*
 old_woman-NOM once from market-GEN came
 ‘The old woman once came back from the market.’

b. kot zametil starušk-u
 cat.NOM noticed old_woman-ACC
 ‘The cat noticed the old woman.’

(3) a. níitii-n magaláa xéesá meesháa *Harar Oromo*
 woman-NOM market inside things.ACC

náa-f gurgur-t-e
 me-DAT sold-FEM-TENSE

‘The woman inside the market sold goods for me.’ (Owens 1985:86)

b. níitii-n magaláa deeme
 woman-NOM market went

‘The woman went to the market.’ (Owens 1985:56)

c. *pro* níitii taná arke

woman.ACC this saw

‘He saw this woman.’ (Owens 1985:225)

Case systems where S and P are marked alike and contrast with A are known as “ergative”; morphologically ergative languages include Basque, Georgian, Tongan, or Chukchi, illustrated in (4).

- (4) a. keyŋ-e ətlʔəg-ən təm-nen *Chukchi*
bear-ERG man-ABS kill-AOR.3SG:3SG
‘The bear killed the man.’
- b. ətlʔəg-ən ret-gʔe
man-ABS arrive-AOR.3SG
‘The man arrived.’

In a “neutral” case system, the overt marking does not distinguish between S, A, and P: the surface form of a noun does not change depending on whether it is, for example, a subject or an object (this is the case for English outside of the pronominal system). Overt case marking is absent in Mandarin, Thai, Vietnamese, and all or most creole languages. In derivational approaches to grammar, the presence or absence of surface case marking is considered a matter of parametric variation (see Ouhalla 1991).¹ However, beyond isolating morphology, it is not yet clear what other features of language design correlate with the absence of overt case marking.

Finally, “tripartite” or “contrastive” systems are those where S, A, and P all have different case marking, as in Antekerrepenhe (Arandic; Central Australia):

- (5) a. **arengke-le** aye- nhe ke-ke *Antekerrepenhe*
dog-A me-P bite-PAST
‘The dog bit me.’
- b. athe **arengke-nhe** we-ke

¹ We take the notion of *parametric variation* to include variation in lexical properties of functional categories. There is a stronger position, found in the generative literature, that takes all parametric variation to be lexically determined in this fashion (this position is sometimes referred to as the *Borer-Chomsky conjecture*; see, e.g., Baker 2008).

me:A dog-P strike-PAST
 ‘I hit the dog.’

c. **arengke-Ø** nterre-ke
 dog-S run-PAST
 ‘The dog ran.’ (Bittner and Hale 1996:4)

The accusative, ergative, neutral, and tripartite case systems are often referred to as different *alignments*, and have received significant attention in the typological literature (Silverstein 1976; Comrie 1989 among others). Much of the theoretical interest surrounding alignment systems has to do with the correlation between case and agreement (see §3), the notion of splits (see Coon 2013a; 2013b and references therein), and the differences in abstract Case assignment between accusative and ergative systems (Aldridge 2004; Legate 2002; 2008).

The number of distinct overt cases in a single language may vary significantly; one extreme is represented by languages with no morphological case marking whatsoever, while, at the other extreme, one finds languages with extremely rich case systems, such as Uralic, Dravidian, or Nakh-Dagestanian. Iggesen (2011) finds the distribution of morphological cases shown in Table 8.1 in his language sample.

Table 8.1. Surface case marking across languages.

No morphological case marking	100 languages
2 cases	23 languages
3 cases	9 languages
4 cases	9 languages
5–7 cases	39 languages
8–9 cases	23 languages
10 or more cases	24 languages

The Nakh-Dagestanian languages represent perhaps the furthest extreme among rich case systems; some languages in this family appear to have fifty cases or more (Comrie and Polinsky 1998). However, even in such case-rich languages, the number of argument cases is predictably small: the case(s) of subject, object, possessor, and indirect object (Blake 2001). The majority of

other forms are represented by locative (adjunct) cases, which encode location and direction (Comrie and Polinsky 1998.). Setting such adjunct cases aside, we can describe the availability of morphological cases within a given language by the following implicational hierarchy (cf. Blake 2001 for a similar formulation):

(6) subject case/object case > possessor (genitive) case > indirect object (dative) case

Linguistic theory has gone beyond viewing case as a purely morphological phenomenon by extending the idea of dependency in a more general way. The notion of *abstract Case* can be used to predict the distribution of both overt and non-overt nominal forms, and may thus be thought of as one of the fundamental abstract syntactic relations in the mental grammar. Vergnaud's conjecture, expressed in his 1977 letter to Chomsky advocating the principle of abstract Case, was an important step in the development of the idea. As summarized by Lasnik,

Vergnaud's now very familiar basic idea was that even languages like English with very little case morphology pattern with richly inflected languages in providing characteristic positions in which NPs with particular cases occur. (Lasnik 2008:18)

We defer the discussion of the actual modeling of Case assignment to §3; in §2, we address the main motivations for positing abstract Case.

2 Abstract Case

Abstract Case (which we will refer to simply as Case,² below) is a primitive feature that reflects a relationship between an argument and its syntactic context; in other words, the assignment of abstract Case is determined by syntactic structure. The principles of Case assignment were grouped under the rubric of Case Theory, which included the following components:

(7) *Case Uniqueness Principle*: A lexical NP may receive only one Case.

² Distinguished from morphological case marking by the initial capital C.

(8) *Case Filter*: Every lexical NP must be assigned Case (Chomsky and Lasnik 1977; Vergnaud 1977/2008).

(9) *Principle of Case licensing*: Every instance of Case must be properly licensed.

The Uniqueness Principle (7) correctly rules out such forms as English **my's*, where the form *my* receives the inherent lexical genitive, and is then assigned the genitive again via *'s*,³ but incorrectly rules out the case stacking such as the stacking of dative and accusative in Korean, illustrated in (10c).

- (10) a. haksayng-tul-i ton-i philyohata *Korean*
 student-PL-NOM money-NOM need
 b. haksayng-tul-eykey ton-i philyohata
 student-PL-DAT money-NOM need
 c. haksayng-tul-eykey-ka ton-i philyohata
 student-PL-DAT-NOM money-NOM need
 ‘Students need money.’ (Gerds and Youn 1988:160; Schütze 2001:194)

The condition in (7) remains controversial and a number of researchers have argued that it may need to be relaxed (see, e.g., McCreight Young 1988; Bejar and Massam 2002; Richards 2013, among others), but we will not discuss the more complex issues of multiple case assignment (or “case-stacking”) here.

The Case Filter (8) accounts for the ill-formedness of examples such as (11), where the nominals *book* and *editor* have not received the appropriate genitive case:

- (11) * [[the book] editor] insistence on completing the work

³ One could argue that the inner DP in **my's is* in fact genitive even before the possessive *'s*, which can be seen from examples such as *a car of yours/hers/theirs*. Then one could contend that **my's* exists in English, but as an irregular form: *mine*.

To understand the Case Filter better, we need to recognize two types of positions where nominals can occur: Cased and Caseless positions. The contrast between these two types of positions is correlated with the contrast between lexical DPs, on the one hand, and all other complements (sentential complements and empty categories) on the other.⁴ Lexical DPs can appear only in Cased positions; Caseless DPs, therefore, have to move to a position where they can receive Case. To see an application of the Case Filter, consider the following examples, where *expect* can take either a nominal or a sentential complement:

(12) Everybody expected this rough patch.

(13) Everybody expected that this rough patch was going to come.

Both types of complements can appear as subjects of the corresponding passive clauses:

(14) This rough patch_i was generally expected t_i.

(15) [That this rough patch was going to come]_i was generally expected t_i.

However, only sentential complements are possible in the impersonal passive (with the expletive *it*):

(16) * It was generally expected this rough patch.

(17) It was generally expected [that this rough patch was going to come].

The contrast between (16) and (17) is explained in terms of Case. Sentential complements do not receive Case and can therefore appear in Caseless positions. In contrast, the DP *a rough patch*

⁴ Throughout this chapter, we use the label “DP” (Determiner Phrase) to refer to the maximal projection of a nominal, except when quoting directly from sources that use a different label. As far as we can tell, though, nothing stated here hinges on this particular choice.

has to receive Case; the addition of the passive morphology to *expect* renders its complement position Caseless, so leaving *a rough patch* in this position violates the Case Filter.

Like passive verbs, predicative adjectives that take sentential complements are unable to Case-mark their complements. This means that their DP complements are Caseless and result in ill-formed structures (19). Such a structure can be rescued if the DP *a victory* moves to the subject position to receive Case (20):

(18) It is unlikely [that we will win].

(19) * It is unlikely [a victory].

(20) [A victory]_i is unlikely t_i.

A strong argument in favor of the Case Filter comes from the conditions on lexical/overt subjects of infinitival clauses.⁵ In English, lexical subjects of infinitivals can be assigned Case in situ by the complementizer *for*:

- (21) a. [For him/*he to admit such a thing] is impossible.
b. It is impossible [for him/*he to admit such a thing].

The complementizer *for* assigns objective case, as shown by the form of the pronoun in (21a–b). The presence in (21a–b) of objective case on what is clearly a subject illustrates the sort of problem one encounters when seeking a precise one-to-one mapping between grammatical functions (e.g. SUBJECT, OBJECT) and case markings (e.g. nominative, accusative/objective). In practice, these alignments are often imperfect.

While (21) exhibits an overt prepositional complementizer, in many other languages covert complementizers may assign objective Case to infinitival subjects as well. Consider the following Russian sentence, in which the silent interrogative complementizer assigns dative case to the subject of the infinitive:

⁵ In what follows we will concentrate on English, but see Szabolcsi (2009), who shows that, in Hungarian, infinitival complements of subject control verbs and subject raising verbs can host overt nominative subjects.

- (22) [_{Comp} INTERR Maš-e/*Maš-a [prixodit' segodnja]]? *Russian*
 Masha-DAT/*Masha-NOM come.INF today
 'Should Masha come today?'

Without the complementizer, the overt infinitival subject is impossible:⁶

- (23) * It is impossible [him to admit this]

- (24) * Maš-e prixodit' segodnja *Russian*
 Masha-DAT come.INF today
 ('Masha should come today.' – declarative)

Recall that the Case Filter (8) applies to lexical DPs, but not to empty categories. Thus, in the following examples, the infinitival clause is licit with a non-lexical subject, PRO:

- (25) [PRO to admit such a thing] is impossible.
 (26) It is impossible [PRO to admit such a thing].

As the only item not subject to the Case Filter, PRO is in near-complementary distribution with overt subjects (see, e.g., Radford 2004).⁷ Furthermore, since it is not able to receive objective case, PRO is incompatible with the Case-assigning complementizer *for* (although see, for

⁶ Russian does allow declarative sentences with dative subjects, but not with the meaning intended in (24); such root infinitive constructions require the interpretation that the event is beyond the main participant's control. See Moore and Perlmutter (2000), Sigurdsson (2002), and references therein.

⁷ The complementarity between PRO and lexical/overt DPs is incomplete because of cases such as (i), where neither PRO nor any other DP can appear in the underlined position (without *of*):

(i) Kim is fond _____

Within the Government & Binding framework, this imperfect complementarity was handled by subjecting PRO not to the precise inverse of the Case Filter but to the *PRO Theorem*, which stated that PRO cannot tolerate syntactic government in general (even government by non-case-assigners).

example, Bobaljik and Landau (2009) and references therein for empirical challenges to this approach).⁸

(27) * It is impossible [for PRO to admit such a thing]

In some contexts, however, lexical/overt subjects of infinitival complements are able to occur in either the presence or absence of *for*:

(28) They want [for him to succeed]

(29) They want [him to succeed]

Case in (28) is assigned by the complementizer *for*, and the derivation is straightforward, with the Case Filter observed. However, Case on *him* in (29) has to be assigned in some other way. A correlate of this difference is that in (29), unlike in (28), the verb *want* cannot be separated from *him* by intervening lexical material (Postal 1974):

(30) I have wanted all my life for him to succeed

(31) * I have wanted all my life him to succeed

The obligatory adjacency between *want* and *him* indicates that the latter can receive Case from *want* only under special conditions, namely when there is no separation between the two. If an adverbial phrase intervenes, as in (31), such Case assignment is blocked; at the same time, the lexical DP cannot receive Case from within the infinitival clause, and the result is ungrammatical (29). The Case assignment configuration illustrated in (29) is known as Exceptional Case

⁸ Note, however, that some English dialects, most notably Belfast English (Henry 1995:Ch. 1, 4), seem to have reanalyzed *for* as a complementizer that cliticizes to the infinitival marker *to*. Accordingly, Belfast English allows constructions such as (i) and (ii):

(i) For to stay here would be just as expensive.

(ii) I don't like the children for to be late.

Marking (ECM). The subset of English verbs that allows this configuration is referred to as ECM predicates (e.g., *want*, *expect*, *find*, *prove*, *judge*). The phenomenon of exceptional case assignment across an infinitival clause boundary is closely related to the *accusativus cum infinitivo* construction found in classical languages such as Latin:

- (32) hodie necesse est te solum ambulare *Latin*
 today necessary is 2SG.ACC alone.ACC walk.INF
 ‘It is necessary for you today to walk alone.’

Certain questions on the topic of Case theory, concerning both the range of categories that can assign Case and the manner in which Case is assigned, remain to be addressed. We have already observed that both C heads (such as English *for*) and certain prepositions may have Case-assigning properties; we have also tacitly assumed that verbal and inflectional heads can act as Case assigners (verbs assign Case to their complements; inflectional heads assign Case to clausal subjects). One of the most intriguing aspects of Case Theory concerns the general principles that regulate the situations in which Case assignment is and is not possible. What prevents particular lexical items from assigning Case? What is the relationship between Case and agreement? Are the rules of Case assignment the same across different alignment systems? We take up these issues in the next section.

3 Explanations

3.1 Case assigners

An ongoing issue in discussion of Case has been the distinction between Case-assigning and non-Case-assigning heads. In the preceding sections, we alluded to several such distinctions: between verbal predicates (which can, in some cases, assign Case to their complements) and adjectival predicates (which cannot); between finite inflectional heads (which can assign Case to their clausal subjects) and non-finite ones (which cannot); and between active transitive verbs (which can assign Case to their complements) and passives (which cannot).

There have been attempts in the theoretical literature to derive at least some of these distinctions from deeper principles. Chomsky’s (1981) dual binary-feature system, shown in Table 8.2, was one such attempt. In this account, the [-N] feature was the crucial property that

allowed a category to be, in principle, an assigner of abstract Case. This explanation had the desirable effect of ruling in verbs and prepositions as Case assigners, and ruling out nouns and adjectives; however, it also faced many challenges. For instance, the status of inflectional categories such as finite Tense as Case assigners, despite their absence from the typology in Table 8.2, was problematic; equally inexplicable was the contrast between adjectives, which apparently universally fail to assign Case, and nouns, which assign genitive Case under certain circumstances. Essentially, it turned out that lexical categories were not fine-grained enough to capture both the necessary and sufficient conditions for the status of a head as a Case assigner (compare finite vs. non-finite Tense, active vs. passive verbs, etc.).

Table 8.2: Featural decomposition of lexical categories (Chomsky 1981).

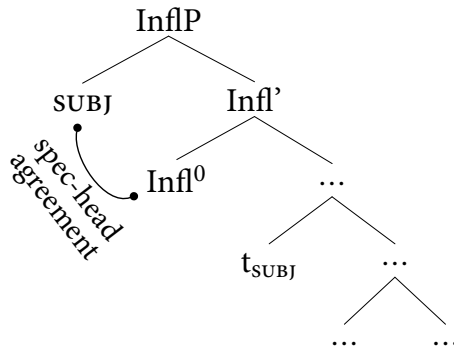
	+N	-N
+V	adjective	verb
-V	noun	preposition

Another important attempt to predict the distribution of Case assigners grew out of the Split VP Hypothesis – the idea that there is a functional head (often labeled v^0), distinct from the lexical verb, that is responsible for introducing the external argument, assigning accusative case to the object, and, perhaps, “verbalizing” the category-less lexical root (see Chomsky 1995; Hale and Keyser 1993; Kratzer 1996; Marantz 1997 among others). This hypothesis located the case-assigning capacity of verbs away from the verb itself, in v^0 . The move allowed alternations such as the passive or the (anti-)causative to be viewed as variations in the verbal functional head; given that accusative case assignment was a property of this verbalizing head, it was natural that adjectives would lack this capacity.

These newer approaches, however, still treated case itself as a *sui generis* syntactic feature. As noted in §2, such attempts to reduce case to grammatical function (e.g., SUBJECT) run into significant empirical problems. More recently, Pesetsky and Torrego (2001; 2004; 2007) have proposed that case features are simply the uninterpretable counterparts of tense/aspect features, much as phi-features (person, number, gender) on tense/aspect/mood (TAM) markers or finite verbs are understood as the uninterpretable counterparts of phi-features on nominal projections.

Additionally, the structural relationship between a head and its specifier – or *spec-head*, for short – was afforded a special status, in that it could give rise to the sharing (or checking) of values between the phrase in specifier position and the head of the entire projection.

(35)



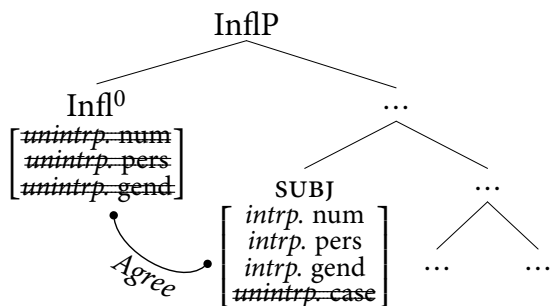
This dual role of I^0 captured the observed coupling of nominative case and finite agreement.

Notice that, at this stage of theoretical development, no *causal* relationship between case and agreement was assumed; the phrase governed by I^0 simply happened to be the one to move to [Spec, IP], which in turn determined finite agreement on I^0 . Thus, it was perfectly possible to have other sources of case assignment – for example, inherent case assignment by *of* in English – that were associated with no agreement whatsoever.

The advent of the Minimalist Program (Chomsky 1995, *et seq.*) resulted in a subtle but important change in the logic of the case–agreement relationship. An increased interest in what “drove” certain syntactic operations led to the hypothesis that agreement was a fundamental *need* of the finite verb or tense/aspect-marker; this idea was reflected in the introduction of “uninterpretable features”, elements of the derivation that would cause ill-formedness unless tended to by a particular syntactic operation. Agreement was construed as a response to the syntactic system’s need to neutralize these uninterpretable features on the finite verb or tense/aspect-marker. This change in the theoretical treatment of agreement came with a concomitant change in the theory of case: the Case Filter was recast as an uninterpretable feature in its own right, which resided on noun phrases; it was assumed that this feature got “checked”

precisely when the noun phrase in question entered into a full-fledged agreement relation with some syntactic head.¹⁰

(36)



The choice of case assignment was understood to be fundamentally linked to the identity of the head with which the noun phrase entered its agreement relationship (nominative for I^0 , accusative for V/v^0 , and so forth).

The changes brought on by Minimalism created a much tighter coupling between case and agreement than had existed before. Consider the fate of a noun phrase that is *not* the subject of a finite clause. Under the GB treatment, this noun phrase needed to satisfy the Case Filter, and did so if it stood in the appropriate structural relation (i.e., government) with an appropriate head – for example, a preposition, or a verb capable of assigning accusative case. There was no requirement that this noun phrase enter an agreement relationship with any other syntactic element (although this was of course possible if the language in question had agreeing prepositions and/or object-agreement). Under the MP treatment, however, no case assignment could exist without agreement: case assignment was now a “side effect” of a noun phrase entering into a full-fledged agreement relationship with a given head. Every overt noun phrase now needed an agreement relationship – observed or hypothesized – to explain how it could satisfy this new implementation of the Case Filter.

¹⁰ The qualifier *full-fledged* here is meant to distinguish agreement relations involving the full set of nominal features with relations involving only a subset of those features. This distinction is not crucial at the current juncture (although see below); for the purposes of the current discussion, it is sufficient to know that agreement between a finite verb or tense/aspect-marker and the subject is considered full-fledged.

This path was not the only conceivable one that could have been taken. Indeed, an alternative view was articulated almost concurrently with the publication of Chomsky's (1995) "Minimalist Program".¹¹

[By] virtue of being licensed in situ by Case binders that are or contain functional heads, ergative and accusative arguments may agree with those heads. (Bittner and Hale 1996:3)

The view espoused by Bittner and Hale holds that it is the assignment of case to (at least some) noun phrases that allows those noun phrases to control agreement, and not the other way around. About a decade later, this same view on agreement was defended in greater detail within an entirely different view of case assignment. Bobaljik (2008) revived a set of typological observations made by Moravcsik (1974; 1978) concerning the set of arguments that are eligible to be targeted for agreement in a given language. But, while Moravcsik's observations were phrased in terms of grammatical functions ("subject", "object", "indirect object", "adverb"), Bobaljik demonstrated that the empirical coverage of those observations could be extended to cover ergative-absolutive languages and languages with 'quirky subjects' if the observations were phrased in terms of case marking, rather than grammatical functions.

The particular implementation adopted by Bobaljik cannot be properly illustrated without first discussing Marantz's (1991) configurational theory of case (see §3.3); however, the crucial observation is that, in a given language, the case marking borne by a DP is a better predictor of that DP's agreement pattern than its grammatical function is. Left as is, this observation – much like the previously discussed correlation between nominative case and finite agreement – would amount to a statement about correlation rather than causation. However, Bobaljik demonstrated that, although bearing the "correct" case marking is a necessary condition for agreement with a given noun phrase, it is not a *sufficient* condition; the agreement target must also be, structurally, the highest DP among those whose case qualifies them for agreement; furthermore, the agreement target must be sufficiently local to the head that agrees with it.

¹¹ The opposition established in the text below is a very circumscribed one, pertaining to the causal relation between (some) case markings and (some) agreement relations; this should not be taken as an indication that Bittner and Hale (1996) were opposed to the Minimalist Program more generally. As the paper in question makes clear, these authors were working decidedly within the general framework espoused by Chomsky (1995).

The observation that correct case marking is a necessary but insufficient condition for agreement crucially supports the view that assignment of case is a pre-condition to the calculus of agreement. This, of course, means that the MP view of case as a “side effect” of agreement is untenable; however, that view was in trouble independently of Bobaljik’s observation (see, e.g., Preminger (2011) for a demonstration that absolutive in Basque does not arise via agreement, overt or otherwise).

Of course, for this new view of the interaction between case and agreement to be viable, there needs to be a theory of case assignment where case arises independently of (and prior to) agreement. Fortunately, this is provided by configurational approaches to case assignment, to which we turn next.

3.3 The structural determination of case: head-centered vs. configurational approaches

Since agreement has canonically been viewed as a relationship between a head and a phrase, the view of case as a by-product of agreement necessarily commits its proponents to the view that case likewise depends on the same structural relation. But, in actuality, it is feasible to ponder the structural conditions on case and agreement separately. Specifically, we might reject the MP-style causal link between agreement and case while maintaining an MP-style structural condition on case assignment, consisting of (i) a c-command relation obtaining between a designated head and the relevant noun phrase and (ii) the absence of an intervening phase boundary or DP between the two.

This approach can be contrasted with what is known as a configurational system of case assignment, in which noun phrases are assigned case by virtue of their structural position relative to certain lexical heads and, more importantly, to other noun phrases in the clause. Implementations of configurational case assignment differ (see Bittner and Hale 1996; Marantz 1991; Yip et al. 1987 among others), but all these approaches share the insight that accusative and ergative (see §1) can be given a unified treatment as dependent cases. While this insight is not entirely new, configurational approaches to case assignment take seriously the fact that both accusative and ergative are cases that typically depend on the presence of another, case-marked noun phrase in their local vicinity (see also Bobaljik 1993; Laka 1993). Configurational approaches allow these cases to arise directly by virtue of the presence of this other noun phrase;

the difference between accusative and ergative alignments then reduces to a question of location of dependent case assignment (i.e., whether the dependent case is assigned to the higher or lower of the two relevant noun phrases).

Another crucial virtue of configurational approaches to case assignment is their ability to account for so-called ‘quirky case’ languages. In Icelandic, the normal nominative-accusative pattern of case assignment in the clause is disrupted under certain circumstances – specifically, when the particular predicate chosen idiosyncratically selects a subject with non-nominative case (e.g., dative, genitive, or accusative; see Zaenen et al. 1985 and much subsequent literature for arguments that, despite being non-nominative, these arguments are indeed grammatical subjects). Interestingly, selection of a quirky subject inhibits the appearance of accusative on the direct object; the direct object surfaces with nominative case in these instances.

- (37) Henni líkuðu hestarnir/*hestana. *Icelandic*
she.DAT liked.PL horses-the.NOM.PL/*horses-the.ACC.PL
‘She liked the horses.’ (Thráinsson 2007:172)

Approaches to case that locate the ability to assign case in the functional infrastructure of the clause have difficulty accounting for the disappearance of the accusative; configurational approaches, on the other hand, handle these facts with ease.

3.4 Case in ergative languages

Case assignment in ergative languages, where the morphological case of the intransitive subject aligns with that of the transitive object, has posed particular challenges for Case theory. Currently, there are several families of approaches to this pattern of case assignment, which we survey below.

The first family of approaches is configurational (see also §3.3). Under these approaches, the assignment (or “discharging”) of ergative case is assumed to depend on some inherent morphosyntactic property of the clause in which the ergative case arises. In one variant of this approach, the Obligatory Case Parameter (Bobaljik 1993; Laka 1993), ergative case emerges only when the absolutive has already been discharged within the same clause. In this view, the distinction between ergative alignment and accusative alignment arises from a parameter which

requires the obligatory discharging of either “subject case” or “object case” (the former setting giving rise to an accusative alignment, the latter to an ergative one). In another variant of the configurational approach, Marantz’s (1991) theory of dependent case, the emergence of ergative case depends not on the discharge of the absolutive, but on the presence of a non-oblique nominal which is distinct from, and syntactically lower than, the ergative nominal.¹² In this view, the parameter setting determines whether dependent case is assigned to the lower or higher of two distinct nominals (again, the former setting results in an accusative alignment and the latter in an ergative one).

The second family of analyses views the ergative as an inherent case. It is virtually uncontroversial that certain lexical heads in a given language place idiosyncratic requirements on the case borne by their arguments (e.g. different cases assigned by different prepositions, as, for example, in German). If we take seriously the status of v^0 as a lexical head introducing the external argument (see discussion and references in §3.1), then it is entirely possible that, in a given language, this lexeme would place the same sort of idiosyncratic case requirements upon the argument it introduces (i.e., the external argument). The result would be a particular case marking associated with the transitive subject, but not with the transitive object or the intransitive subject. The proposal that the ergative is assigned as an inherent case relies on two main types of evidence. First, in a number of ergative languages, the link between ergative case and the thematically agentive event participant seems quite strong; at least, it is stronger than the link between nominative case and the agent role. For instance, Laka (2006) argues for a strong connection between case and theta roles in Basque, which in turn favors the inherent-case approach to the ergative.¹³ The second argument in favor of treating the ergative as an inherent case comes from case preservation under raising (see Woolford (2006) for discussion and examples).¹⁴

Inherent case can be assigned to a DP directly by a verbal head, as suggested by Laka (2006),

¹² The term *distinct* here is meant to preclude positions occupied by a moved nominal in the course of the syntactic derivation from counting as separate operands for the calculation of dependent case.

¹³ This analysis of Basque is not shared by all researchers – see Režac et al. (in press) for the proposal that the Basque ergative is a structural case.

¹⁴ However, Artiagoitia (2001) and Režac et al. (in press) show that under raising, the ergative in Basque patterns as a structural case.

Legate (2008), and Aldridge (2004; 2008), among others. On the other hand, Markman and Graschenkov (2012) and Polinsky (in press) argue that the thematic role of the agent is assigned to the subject not by a verbal projection but by a morphologically dependent adposition; the PP, in its entirety, is located in the specifier of the highest v^0 , which accounts for the subject properties of the ergative expression. Assuming that adpositions assign inherent case (cf. Landau 2010),¹⁵ this brings the latter approach closer to that of Laka, Legate, and Aldridge. One of the challenges for the proposal that ergative is an inherent case lies in accounting for agreement patterns observed across ergative languages, which are far from uniform. Another dimension along which ergative languages differ has to do with the accessibility of the ergative expression to A-bar extraction under relativization, *wh*-question formation, or topicalization. Some ergative languages disallow such extraction for the ergative, but invariably permit it for the absolutive – a phenomenon known as “syntactic ergativity” (Manning 1996). Such differences in agreement and extraction patterns have led to the idea that the ergative languages do not constitute a uniform class. A number of recent approaches, most notably those of Legate (2008) and Aldridge (2004; 2008), pursue the idea that ergative languages fall into two distinct subtypes. In the first subtype, the absolutive corresponds to the nominative case and is assigned to the intransitive subject and the direct object by T; the ergative is treated as an inherent case. In these languages, only intransitive subjects can appear in control infinitives, the ergative is not accessible to A-bar movement, and agreement is determined by the absolutive DP. Examples of such languages include Seediq, Inuit, and Chukchi. In the second subtype, absolutive case is seen as a morphological default, inserted when a dedicated morphological realization is unavailable for a given abstract case. Intransitive subjects receive nominative Case and direct objects receive accusative Case, but the morphology of these cases is identical and its surface form is what we have come to call ‘absolutive’. These languages use only the absolutive for DPs without dedicated abstract Case (e.g., hanging topics); since the morphological absolutive can appear on DPs marked with abstract Cases other than absolutive (lacking a distinct morphological form of their own), multiple absolutives can appear in a single clause. Finally, subject agreement in these languages may be triggered by all subjects, by the intransitive subject alone, or by the highest DP with structural Case (this last pattern is sometimes known as absolutive agreement). This subclass of ergative languages does not manifest syntactic ergativity – for example, it does not

¹⁵ This assumption is not uncontroversial, but for reasons of space, we will not expand on it here.

impose extraction restrictions on the ergative argument.

4 Summary

In this chapter, we have presented and discussed the notions of morphological (surface) case and abstract Case, showing the empirical and theoretical motivation for each. The discussion of morphological case presented the dimensions of cross-linguistic variation found in this domain and surveyed main tendencies in the expression of case. Although significant variation is found in the expression of morphological case, this variation is constrained by certain limitations and tendencies, which we have attempted to outline. The notion of abstract Case is used to predict the distribution of overt and non-overt nominal forms, and is considered one of the fundamental abstract syntactic relations in linguistic theory. The main role of abstract Case is in constraining the distribution of various types of nominals. Accordingly, the formalization of abstract Case is an important task for modern linguistic theory.

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This article discusses A-licensing and case from a minimalist perspective, pursuing the idea that argument NPs cyclically enter a number of A-relations, rather than just a single one, resulting in event licensing, case licensing, and ϕ -licensing.

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