Speech Acts in Discourse Context
Craige Roberts

Abstract:
There is evidence for the existence across all known languages of three basic clause types: declarative, interrogative, and imperative. Though this distinction in grammatical mood may be reflected in quite different ways (syntactic, morphological, lexical, etc.) in different languages, cross-linguistically we find a robust generalization: The choice of mood in a clausal utterance is reflected in a default correlation to one of the three basic types of move in a language game: making an assertion (declarative), posing a question (interrogative), or proposing to one’s addressee(s) the adoption of a goal (imperative). This is in striking contrast to the lack of regular correlation between the conventional content of constituents and speech act types in the tradition of Austin and Searle.

This paper sketches an approach to speech acts in which mood does not semantically determine illocutionary force. In a clause, the conventional content of mood determines the semantic type of the clause, and, given the nature of discourse, that type most naturally lends itself to serving as a particular type of speech act, i.e. to serving as one of the three basic types of language game moves. The type of semantics for grammatical mood that I assume is illustrated here with the imperative. As in earlier work, I take discourse to be a certain type of language game, with felicity tightly constrained by the goals and intentions of the interlocutors and, in particular, by the question under discussion. This pragmatic framework, together with the proposed semantics of mood, permits us to explain the kinds of contextual factors that lead to the attested Searlean interpretations of particular speech acts, and is compatible with a simple account of performatives in which performativity is epiphenomenal on the semantics of the predicates in question when used with a 1st person subject.

1. Introduction: Speech acts in a QUD model of discourse

If one is committed to the development of a scientific account of human language, aiming to explain how linguistic form is related to meaning in context, then an adequate theory of speech acts would need to satisfy the following desiderata:

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1 This paper developed out of a talk at the NY Philosophy of Language Conference on New Work on Speech Acts, at Columbia on September 29, 2013. My thanks to the organizers, Daniel Fogal, Daniel Harris and Matt Moss, for an excellent conference, and to the participants for a lively conversation. Thanks as well to the OSU Pragmatics working group, the MASZAT group at the Research Institute for Linguistics of the Hungarian Academy of Sciences, and the OSU Synners working group, for comments on earlier versions, and to B. Chandrasekaran, Hans-Martin Gärtner, and Mandy Simons for helpful conversations as the work evolved. Hans-Martin’s challenges and suggestions were especially important in driving me to consider more carefully the semantics of the imperative.

But whatever merit there may be in this work depends in large measure on the excellent earlier work acknowledged throughout, and most especially that of John Searle; James Allen, Phil Cohen, Ray Perrault, and Rich Thomason; Magdalena (Schwager) Kaufmann, Paul Portner, and Nate Charlow, as well as Cleo Condoravdi and Sven Lauer, and Sarah Murray and Will Starr. I hope I have managed to adequately convey my debt to all these scholars.

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Linguistic desiderata for speech act theory:
A theory of speech acts should be linguistically motivated—grounded in the conventional content of the utterances used to make them—and explanatory, offering testable predictions about both (a) the kinds of speech acts attested across languages, and (b) in particular utterances, the kind of speech act we would take a speaker to proffer, given the conventional content of what she says and the context of utterance.

Then what is a speech act, and how do we differentiate different types? The Austinian tradition best exemplified by the work of Searle (1969, 1975) aims to classify the kinds of speech acts we perform. For example, here’s the taxonomy from Searle (1975):

**(Assertives):**
Commit the speaker to the truth of a proposition: suggesting, putting forward, swearing, boasting, concluding. *No one makes a better cake than me.*

**(Directives):**
Attempt to make the addressee perform an action: asking, ordering, requesting, inviting, advising, begging. *Could you close the window?*

**(Commissives):**
Commit the speaker to some future course of action: promising, planning, vowing, betting, opposing. *I’m going to Paris tomorrow.*

**(Expressives):**
Express how the speaker feels about a state of affairs: thanking, apologizing, welcoming, deploiring. *I am sorry that I lied to you.*

**(Declarations):**
Change the state of the state of the world to bring it into conformity with the propositional content: *You are fired, I swear, I beg you, I hereby pronounce you man and wife.*

This taxonomy may be of interest from the point of view of the theory of action or social theory. But it isn’t clear that it would satisfy the linguistic desiderata above. I will offer an alternative, simpler taxonomy that’s better motivated linguistically and, I will argue, under the proper understanding of the character and role of the goals and intentions of interlocutors in a discourse interaction, permits one to predict, for a given utterance in a particular context, which type of Searlean function that utterance might serve.

Searle offers several parameters which distinguish his speech acts. But the most important is direction of fit, of which there are two values: Speech acts display **word to world** fit just in case they portray the world as being so-described. Speech acts display **world to word** fit in case they propose that interlocutors behave in such a fashion that the world comes to fit the description. Searle (1975:158) notes “Direction of fit is always a consequence of illocutionary point. It would be very elegant if we could build our taxonomy entirely around this distinction in direction of fit, but though it will figure largely in our taxonomy, I am unable to make it the entire basis of the distinctions.”

I’m going to argue that we can, and in fact should, do this. We can profitably distinguish speech acts in terms of this two-way distinction, with one natural elaboration:
• **assertion**: an act of proposing an addition to the interlocutors’ C(ommon)G(round) (Stalnaker 1979). If adopted, this addition would commit the interlocutors to accepting that (and behaving as if) the world fits the words. Note that this is a weaker commitment than belief, in keeping with Stalnaker’s (1979) characterization of the interlocutors’ Common Ground.

• **suggestion**: an act of proposing that interlocutors adopt intentions to act in specific ways. There are two types of speech act proposals reflecting an essential distinction in the types of goals interlocutors may propose in discourse:
  - **direction**: an act in which a speaker proposes to her addressee that he adopt a particular intention to act in the world. This is the sort of speech act typically performed with an imperative. It is a proposal to make the world fit the words.
  - **interrogation** or **question**: an act of proposing that the interlocutors collectively commit to collaborative inquiry, thus an act which would establish a direction for the discourse itself. It is a proposal that the interlocutors endeavor to discover the proper fit between world and words, thereby resolving the question.

In other words, on this view all speech acts propose to one’s interlocutor that they make some type of commitment, and the central distinction between them lies in whether the proposal involves a commitment to the world being truthfully portrayed by the content of the utterance (assertion), a commitment to adopt intentions to make the world change so as to conform to the way it is portrayed by the utterance (direction), or a proposal to find the correct fit between world and word among those alternatives associated with a question (interrogation). The distinction among the two types of suggestions is about whether the proposed intentions should be adopted by one of the interlocutors (typically the addressee) as a spur to action, or whether inquisitive intentions should be jointly adopted with a view to the direction of discourse.

This taxonomy cross-cuts Searle’s at several junctures. Some of his Directives would be interrogations on this view (for example asking); while others would be directions (ordering, inviting, advising, …); and some might be classed here as assertions (I hereby request that you close the window). Speech acts which fall under my category of assertions may be found in all five of his types. Besides the Directive just noted and the Assertives, these would include most Commissives (vowing, as in the example I’m going to Paris tomorrow), Expressives (I am sorry that I lied to you) and Declarations (including performatives like I hereby pronounce you man and wife, to be discussed below). So it is clear that the present account approaches the question of what a speech act is, and how we might distinguish different types of speech acts, from a different angle.

If we are to develop a linguistically satisfying account of speech acts and speech act types, we need to provide empirical evidence for the types of speech acts proposed and a theoretically interesting explanation of how they are differentiated and recognized by interlocutors. While most of the classical work on speech acts tended to focus on verb types, especially performative verbs, the linguistic evidence suggests that the foundation of such an account should instead be a theory of the semantics and pragmatics of clause types. In this connection, there are two observations about grammatical mood, which I take to reflect language universals. Here is the first:
Mood (grammatical universal): All known languages display three basic clause types, characterized as a distinction in grammatical mood:
  - Declarative
  - Interrogative
  - Imperative

As Sadock & Zwicky (1985:160) put it, one might find it “a surprising fact that most languages are similar in presenting three basic sentence types with similar functions and often strikingly similar forms. These are the declarative, interrogative, and imperative.” These moods may be realized quite differently from language to language or even in one and the same language. For example, interrogative mood may be reflected morphologically in some languages (e.g., Japanese verbal morphology), syntactically in others (English word order and extraction), or even prosodically (English utterance final phrase accent and boundary tone). But it is generally agreed that mood arises as a function of the compositional morpho-lexical and structural semantics of the clause. Moreover, as Sadock & Zwicky observe, there are a number of notable syntactic similarities in the imperative across languages, including both the fact that even in ergative languages the addressee is almost always the subject in imperative sentences, whether transitive or intransitive, and a strong tendency for subjects and subject-verb agreement to be suppressed in imperatives, even in languages which otherwise display an obligatory subject agreement feature on the main verb.

The grammatical mood universal is reflected cross-linguistically in a second universal, a robust generalization about the pragmatics of mood:

Mood (pragmatic universal): There is a strong correlation between choice of grammatical mood and intended type of move in a language game:
  - Declarative mood is typically used to make an assertion
  - Interrogative mood is typically used to pose a question
  - Imperative mood is typically used to issue a direction

We should be careful not to confuse this correlation with the semantic content of grammatical mood itself. One important reason is that each of these moods may be used in embedded clauses, which carry no illocutionary force themselves. Moreover, even in main clauses, one mood may be used to perform different types of acts, e.g. a declarative used to pose a question (looking at someone quizzically, I say you're not hungry, even without final prosodic rise) or issue an order (you WILL clean your plate!). Most formal semantic work on declarative and interrogative mood has taken them to conventionally indicate the semantic type of the resulting interpretation: a declarative denotes a proposition: type <s,t>, whereas an interrogative denotes a set of propositions: type <<s,t>,t> (intuitively, the set of alternative possible answers to the question). Recent work on the semantics of imperatives by Portner, Zanuttini and their colleagues (Portner 2007, 2016; Pak, Portner & Zanuttini 2008, 2015; Zanuttini, Pak & Portner 2012) has taken a similar tack, treating them as denoting a particular type of property: type <s,<e,t>> (indexed to

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See Portner (2018; Chapter 3) for an excellent discussion and overview of the literature on the relationship between clause types, sentence types, and sentence force, and how (and why) we need to differentiate these notions. I assume that grammatical mood is what distinguishes the three types of clauses of interest here, a distinction which may be syntactically and morphologically complex, as Portner discusses in detail.
the addressee via an abstract agreement feature). If this were correct, then we could conclude that mood determines semantic type, the type then correlated by default with type of move, as summarized in Table 1:

<table>
<thead>
<tr>
<th>Grammatical Mood</th>
<th>Semantic Type</th>
<th>Default Move</th>
</tr>
</thead>
<tbody>
<tr>
<td>Declarative</td>
<td>&lt;s,t&gt;</td>
<td>Assertion</td>
</tr>
<tr>
<td>Interrogative</td>
<td>&lt;&lt;s,t&gt;,t&gt;</td>
<td>Question</td>
</tr>
<tr>
<td>Imperative</td>
<td>&lt;s,&lt;e,t&gt;&gt;</td>
<td>Direction</td>
</tr>
</tbody>
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Table 1: Semantics and Pragmatics of Mood

A declarative clause may denote a proposition, but its use does not, of course, inevitably amount to an assertion. As noted above, such clauses may occur embedded, as in *John believed that his breakfast was ready*, where the complement clause is not asserted. In parallel fashion, though a semantic question is a set of propositions, it is important not to confuse that object with a pragmatic question, as we also see in embedded uses: *John wondered whether his breakfast was ready* reports on John’s consideration of a set of alternatives; it doesn’t pose the corresponding question for discussion in the discourse in which the utterance occurs. Though it is less common, it is now generally recognized that imperative clauses may occur embedded as well in several languages (Pak, Portner & Zanuttini 2008, 2015; Charlow 2010; Kaufmann & Poschmann 2013; Kaufmann 2014a; Stegovec & Kaufmann 2015). In such uses, as with the other mood-types, the imperative clause is not used to propose a direction to the addressee, but instead to report such an event of proposing.

Moves—assertions, questions, suggestions—are types of utterances; and utterances (Bar-Hillel 1971) are uses of a constituent in a context of utterance. Given the proposed conventional contents of the clause-types, we can see that their default use for the corresponding types of moves is functionally natural. This should be fairly obvious for the declaratives: Their semantic type is that of a proposition and what one asserts is a proposition. Similarly, interrogatives denote a set of propositions, and asking a question poses such a set of alternatives—the possible answers to the question—for consideration. We’ll say more about imperatives below. As a first pass, take the meaning of an imperative clause to be its realization conditions: it specifies what the world would be like if the targeted agent (typically the addressee) were to realize the property denoted. Then if the imperative is issued as a direction, it is a proposal that the addressee realize that property. If, as below, we take these three types of moves to be constitutive of the language game, then this suggests an explanation for the grammatical mood universal. Each language has some way of distinguishing the three basic semantic types because these are designed to serve those basic roles of an utterance in discourse. Of course, as Wittgenstein famously pointed out, just because a tool was designed for a particular use, that doesn’t mean that it cannot be used in

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3 The idea that there is a semantic type assigned to each clause and pragmatically correlated with a basic illocutionary force is not new. See Hausser (1980), Huntley (1984), Pendlebury (1986), Wilson & Sperber (1988), and Portner (2004) for other ways of developing it; and Portner (2018, Chapter 3, §3.1.3) for an excellent critical discussion of this literature. Of these, only Hausser and Portner take imperatives to denote properties, as here; and Hausser fails to offer an explanation for why this correlation should obtain, or how it works in discourse. Pendlebury and Wilson & Sperber are vague about the semantics of the different clause types. Only Portner offers an account of why the correlation obtains, in a version of the framework in §2 below.
other ways. Just so, these natural correlations between mood and speech act type are defeasible. I will argue that this defeasibility, too, is natural and readily understood, as a function of the intentional structure of the discourse in which a move takes place.

This natural correlation contrasts with the lack of regular correlation between the conventional content of utterances and the classical speech act types of Austin or Searle. Thus, it seems, those classical speech act theories have no account of the two universals pertaining to mood.

The proposal here relies heavily on preceding literature: I assume the account of assertions of Stalnaker (1979) and of questions of Roberts (1996/2012). I draw on Portner (2004, 2007, 2016) Schwager (2006)/Kaufmann (2012, 2014b) and Charlow (2011) for understanding important features of the semantics of imperative mood; the latter authors and Starr (2013) for an account of the relationship between the imperative and deontic modality; on Condoravdi & Lauer (2011) for their basic approach to performatives; and on Allen, Cohen, Perrault, et al. (as cited above) for basic ideas about the relationship between plans and speech act determination. I only provide enough detail about those accounts to flesh out and support the basic theory I am proposing here. What I offer is: (i) support for the mood-type correlation in Table I, crucially resolving the tension between those accounts of the semantics of the imperative which treat it as property denoting and those which treat it as denoting a modal proposition; and (ii) the use of an independently motivated theory of formal pragmatics to reveal how the observations from the previous literature fit together to provide an empirically motivated, elegant account of what a speech act is, how it’s canonically reflected in the conventional content of the constituent uttered, the default nature of the content-speech act correlation, and how we infer the intended speech act type for a given utterance as a function of its grammatical mood and the context of utterance.

In what follows, in §2 I offer a brief overview of an approach to discourse in which the evident goals and intentions of the interlocutors, as partly reflected in the Question Under Discussion (QUD) and the interlocutors’ evident domain goals, play a central role in structuring interlocutors’ interaction in discourse and, especially, in facilitating and constraining interpretation. Then in §3, I turn to the semantics of grammatical mood. The standard assumptions about declarative clauses (denoting propositions) and interrogative clauses (denoting sets of propositions) are quite generally accepted, with only minor variations between theories. So there I’ll focus on sketching a particular semantics of imperative mood, one which is well-supported empirically and is consistent with the proposed view of speech acts. Given these underpinnings, in §4, I discuss how they make possible a simple, non-stipulatory account of speech acts, explaining the universals about grammatical mood, while predicting that the observed correlations between mood (and semantic type) and move type can be overridden in context as a function of other pragmatic principles. In §4.3 we’ll discuss the theoretical pay-off of this view for the classic issue of how to account for performative speech acts. In §5, I present some conclusions.

2. Discourse Structure and Context of Utterance

The proposed view of speech acts has its place in a general theory of the nature of human linguistic interaction, i.e. of discourse, proposed independently in Carlson (1982), van Kuppevelt
(1996), Ginzburg (1996,2012) and Roberts (1996/2012); in these theories, a question or topic under discussion both drives and constrains the interpretation of individual utterances. In Roberts’ version, adopted here, discourse is a game in which the interlocutors conduct a collaborative inquiry about the way things are, on the basis of their common fund of information about that world, the Common Ground (CG). Following Stalnaker (1979), we don’t know which world we’re in, but the CG is the set of propositions which we all purportedly take to truthfully characterize it (though some may be false, whether we know it or not). A proposition is represented by the set of worlds in which it’s true. Hence, the intersection of the CG at a given point in discourse is the Context Set (CS), the set of candidate worlds for reality according to these interlocutors at that time.

Here are the basic assumptions of this view of discourse and of the context of utterance:

1. **Language is a game of collaborative inquiry structured by the recognized intentions of the interlocutors.**
   - A discourse is one round of this game.
2. Intentions involve commitments to goals. In the language game, players attend to two principal kinds of goals:
   - **Domain goals** and the associated plans to achieve them are the things the interlocutors are publicly committed to achieving in the world and the strategies they adopt to do so. These are relevant in the language game insofar as they may indirectly motivate and constrain the interlocutors’ linguistic interaction.
   - **Discourse goals** are a distinguished type of domain goal, those the interlocutors are jointly committed to achieving in the discourse itself. These are represented by questions, often implicitly posed, which guide the interlocutors’ inquiry. You can think of these as issues or topics under discussion. These, too, are organized, to reflect an underlying plan for achieving these goals, into *strategies of inquiry* (below).

One’s goals are generally partially ordered, both hierarchically, some feeding others (as in a complex plan), and by priority, some more important than others (especially among goals at the same level in the hierarchy, which might otherwise conflict). Hence the structure over goals may be quite complex.

3. **The main goal in any round of the game is to share information about the way things are, adding to the interlocutors’ Common Ground.**
4. There are three kinds of moves in a language game:
   a) **Interrogations** pose questions; they are set-up moves in the language game: If accepted by the interlocutors, a question establishes a discourse goal to which the interlocutors are cooperatively committed: resolving the accepted Question Under Discussion (QUD).
   b) **Assertions** offer partial answers to the QUD at the time of utterance; if accepted, they are payoff moves, in which the interlocutors come closer to achieving their immediate discourse goal of addressing the QUD.
   c) **Directions** propose domain goals to the addressee, and hence are set-up moves as well. If accepted, they are added to the addressee’s individual domain goals, with a consequent modification of her associated plans.
5. If discourse is to be maximally effective, it must be orderly. What serves to organize any game is the players’ immediate goals and intentions in playing the game. Typically,
interlocutors in a discourse are already committed to certain domain goals. If a group of collaborating agents are rational, then in keeping with general constraints on rational agency (Bratman 1987):

- the goals they adopt and the plans they form to achieve them, are consistent, and in particular,
- discourse goals (QUD) should subserve pre-existing or over-arching domain goals.

Hence, addition of information to the CG is not random and unconstrained, but is guided by the mutually agreed upon topics for discussion, these in turn constrained by recognized domain goals. Interlocutors choose a topic for discussion and stick with it, even complaining if others inappropriately change the subject: *What’s that got to do with the price of eggs?* As we might expect in a theory of linguistic pragmatics—of how context comes to bear on interpretation—the orderliness which characterizes felicitous discourse is surely in the interest (a) of more efficient information retrieval and storage, and (b) of the practical reasoning involved in intention recognition, and hence in meaning recognition:

**The intentional structure of discourse:**

The structure of a discourse interaction is designed to help retrieve the speaker’s intended meaning for a given utterance, in view of the goals of the interaction. This is what makes it reasonable to intend that one’s audience will recognize that one intends them to grasp a particular meaning (Grice 1957), even when it is underdetermined by the conventional content of what one says.

A rational agent’s intentions are ideally intrinsically bound up with her plans for action (Bratman 1987). Hence we have:

**Rational Cooperation in a Discourse D:** Make your utterance one which promotes your current intentions in D. (cf. Grice’s Cooperative Principle 1967, and its counterpart in Thomason 1990)

6. This orderliness is reflected in the crucial role of the QUD in interpretation. Thus, we can derive Grice’s (1967) maxim of Relation from the nature of the game and standard assumptions about rational agency:

**Relevance:** Since the QUD reflects the interlocutors’ goals at any point in a discourse, in order for an utterance to be rationally cooperative it must address the QUD.

An utterance *m* addresses a question *q* iff *m* either contextually entails a partial answer to *q* (*m* is an assertion) or is part of a strategy to answer *q* (*m* is a question) or suggests an action to the addressee which, if carried out, might help to resolve *q* (*m* is a suggestion).

7. Just as we develop plans to achieve our domain goals, to address complex questions, interlocutors usually develop strategies of inquiry, involving a series of related questions. These are sequences of moves designed to (at least partially) satisfy the aims established in a particular round of the game while obeying the game’s general constraints. To be a strategy of inquiry, such a sequence must display a hierarchical structure based on a set of questions partially ordered by entailment. The constitutive moves and the overall strategy are
constrained by Relevance and what it is to be a rational cooperative agent. Rhetorical relations between utterances (Mann & Thompson 1987, Asher & Lascarides 1994, 2003) pertain to features of such strategies (Roberts 2004).

8. The context of utterance in a language game can profitably be characterized as a scoreboard (Lewis 1979) tracking the distinguished bodies of information relevant for interpretation as these evolve under the rules of the game. A non-defective context is one in which the interlocutors share the same content in their individual representations of what’s on the scoreboard. Here is a somewhat simplified version of the scoreboard for a language game (see Roberts 1996, 2012b for more details), characterized as a tuple of bodies of information:

The scoreboard for a language game is a tuple, \(<I, G, M, <, CG, QUD>\), where:

- I is the set of interlocutors at t
- M is the set of moves made by interlocutors up to t, with distinguished sub-sets:
  - A \(\subseteq\) M, the set of assertions
  - Q \(\subseteq\) M, the set of questions
  - S \(\subseteq\) M, the set of suggestions
  - Acc \(\subseteq\) M, the set of accepted moves
- \(<\) is a total order on M, the order of utterance
- CG, the common ground, is the set of propositions treated as if true by all \(i \in I\) at t
- QUD \(\subseteq\) Q \(\cap\) Acc is the ordered set of questions under discussion at t, such that for all m \(\in\) M at t:
  a. for all q \(\in\) Q \(\cap\) Acc, q \(\in\) QUD(m) iff CG fails to entail an answer to q and q has not been determined to be practically unanswerable.
  b. QUD is (totally) ordered by \(<\).
  c. for all q, q' \(\in\) QUD, if q < q', then the complete answer to q' contextually entails a partial answer to q.

and in addition:

- d. for all Q \(\in\) QUD there is a g \(\in\) Gcom (see just below) such that g is the goal of answering Q, and
- e. for all Q \(\in\) QUD, it is not the case that CG entails an answer to Q

G is a set of sets of goals and priorities in effect at t, such that

- for all i \(\in\) I, there is a (possibly empty) Gi which is the set of i's publically evident prioritized desiderata, including those goals which i is publicly committed at t to trying to achieve; and
- G = \{ Gi | i \(\in\) I \}.

Moreover:

- for all i \(\in\) I, for all g \(\in\) Gi, g is a conditional goal, representing the intention to achieve the target goal should certain conditions be realized in the actual world.

and we can define:

- Gcom = \{ g | \forall i \(\in\) I: g \(\in\) Gi \}, the set of the interlocutors' common desiderata at t.
- GQ = \{ g \(\in\) Gcom | there is some Q \(\in\) QUD and g is the goal of answering Q \}.

For all i \(\in\) I, if i is a sincere, competent and cooperative interlocutor in D, we can use GQ to characterize two kinds of publicly evident desiderata and goals held by i (at time t):

- **Discourse Goals of i** = GQ
- **Domain Goals of i** = Gi \(\setminus\) GQ
- Gcom \(\setminus\) GQ: the set of common Domain Goals of all the interlocutors
There are three main types of moves tracked on the scoreboard, A, Q and S, corresponding with the three main types of speech acts from §1, the latter characterized below in terms of their contribution to the score. We track all moves, even those that are not accepted, because interlocutors do respond to and discuss moves, even when rejected (e.g., see Ginzburg 2012 for extensive illustration), and can characterize them in terms of their order (what you just said. . . ). Similarly, there are three main bodies of information on the scoreboard, CG, QUD and G, and these are the loci of the main changes to the scoreboard when moves in A, Q and S are accepted. CG is the standard Stalnakerian Common Ground (a set of sets of possible worlds). The QUD is as defined in Roberts (1996/2012), a push-down store where each question on the stack must be a (contextual) sub-question of the one below it, so that a complete answer to the new question will contextually entail a partial answer to the question(s) below it. G includes a set of goals and priorities for each interlocutor. Each goal is conditional, to be realized by the agent in question only in case certain conditions obtain; one might model this as an ordered pair \(<c,t>\), \(c\) the set of circumstances in which the realization is called for (the applicable circumstances), \(t\) the target property to be realized by the agent in those circumstances. Alternatively, one could model such a goal as Kratzerian conditional necessity, necessity making explicit the commitment of the agent whose goal this is, the applicable conditions serving to restrict its domain, and the realization by the agent of the target property as prejacent. I take it that like other elements of the scoreboard, G is not a set of linguistic expressions, but a body of information; so it isn’t crucial here to determine the exact form of such conditional goals. The idea is that we only aim to achieve a given goal (intending to realize a corresponding property) under certain conditions, not come what may; this plays an important role in the semantics of imperatives in Roberts (2015), sketched in §3 below.

Since the CG includes all that the interlocutors take to be true, it includes information about the discourse scoreboard as well. The point of the more articulated scoreboard is not to replace the CG so much as to clarify the different types of information that interlocutors crucially track in discourse and the different roles these types of information play in the evolution of felicitous discourse.

Clause (d) of the definition of the QUD ensures that each of the questions under discussion, as agreed upon by the interlocutors, corresponds to a shared goal, that of answering that question, so that all of the questions in QUD are reflected in GQ. Hence, any rational, cooperative interlocutor should address the QUD (unless more important goals, as reflected in priorities over G, interfere). Then we formally define RELEVANCE:

Given QUD \(q\), a move \(m\) is **RELEVANT** iff \(m\) addresses \(q\).

The role of a given utterance in the speaker’s plans can be inferred using the assumption of relevance to the QUD at the time of utterance, and in this way, the intended interpretation can be inferred, especially if we understand that the QUD suberves the larger domain goals of the interlocutors. As we know from Grice (1957), meaning recognition depends on intention recognition.\(^4\)

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\(^4\) See Roberts 2012b for discussion of the realization of this insight via G in the QUD framework.
Part of the information available in the interlocutors’ scoreboard is an indication, for each interlocutor $i$, of the set $G_i$ of $i$’s evident goals. But in a rational agent, goals do not exist in a vacuum. Rather, they are the targets which drive and constrain behavior; and that behavior is strategic—organized so as to maximize the realization of the agent’s goals. Further, because we typically have many goals, some of them difficult to reconcile, they must be prioritized. So the strategies we adopt to achieve them must take into account those priorities, as well as the circumstances in which the agent finds herself at potential realization times. Finally, goals themselves may be conditional, in the sense that we may adopt a goal which is to be realized just in case certain conditions obtain in the circumstances in which we find ourselves. This is all reflected in the features of $G_i$ for interlocutor $i$, via the conditional nature of goals and other relations over $G$, such as subservience and prioritization. Since both the circumstances and even our goals may change (be realized, abandoned, etc.) and one may change one’s priorities, the character and organization of one’s plans are complex and non-monotonic. Thus $G_i$ is merely the tip of a complex, dynamic planning structure, always mediated by the agent’s awareness of circumstances and the determination of priorities, as evident to all interlocutors (see Charlow 2011 for excellent discussion).

The three principal kinds of moves in a discourse game, for which the above is the scoreboard, can now be characterized formally as follows, where for constituent $\kappa \mid \kappa^D$ is the interpretation of $\kappa$ in discourse context $D$, and the diacritics $\cdot$, $?$, and $!$ stand for declarative, interrogative, and imperative mood, respectively.

**Assertion:** (following Stalnaker 1979)
If an assertion of $\alpha$ is accepted by the interlocutors in a discourse $D$, $\mid \alpha \mid^D$ is added to CG.

**Interrogation:** (Roberts 1996)
If a question posed by $?\alpha$ is accepted by the interlocutors in a discourse $D$, then $\mid ?\alpha \mid^D$, a set of propositions, is added to the QUD.
A question is removed from QUD iff either its answer is entailed by CG or it is determined to be unanswerable.

**Direction:** $^5$ (cf. related proposals in Roberts 2004, Portner 2007)
If a proposed direction $!\!_i \!P$ is accepted by the addressee $i$ in a discourse $D$, then $G_i$ and $i$’s associated evident plans are revised to include the realization, under the applicable circumstances, of $!\!_i \!P$.
$G_i$ is revised to remove the realization of $!\!_i \!P$ once it or the larger goals it subserves are no longer potentially applicable (e.g., it has been realized, or else it is determined that it cannot be practically realized).

The conceptual foundations of this approach to pragmatics are Gricean. And the implications for pragmatic theory are wide-ranging. One reason for this is that the way the three kinds of moves are modeled in the QUD framework is designed to dovetail with the independently motivated

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$^5$ This characterization of Direction is incomplete, since it does not cover what Kaufmann (2012) calls Expressive uses of imperatives, like Be well! See Roberts (2015) for modification of this pragmatics to cover those uses.
compositional content, realized in a formal semantics, of utterances with declarative, interrogative, and imperative mood, as I’ll illustrate with the imperative in the next section. Thus, there is a natural formal congruence between conventional content and the default pragmatic function given by the rules above. In the matter of speech acts, the semantic types of the three types of clause are the right sorts of objects to play the roles of the constitutive moves in the language game as characterized above. Thus, the formal pragmatic framework not only coordinates smoothly with compositional semantics, but is compatible with the formal logics commonly used to model inference in discourse, including erotetic logics like the inquisitive semantics of Groenendijk and his associates (for introductions, see Groenendijk & Roelofsen 2009, Ciardelli et al. 2013, and Cross & Roelofsen 2015).

There are some additional consequences of this view of pragmatics for speech act theory. Making a given type of speech act entails that the speaker incurs certain commitments. For example,

- **All moves carry a commitment to RELEVANCE.** This goes well beyond information sharing *simpliciter*, and so marks a difference from Stalnaker’s (1979) account of assertion. But unlike Sperber & Wilson’s (1986) notion of Relevance, this one is inherently relational, a function of goals and intentions, and hence arguably closer to Grice’s original notion.6
- **Assertions have a doxastic flavor:** making an assertion involves a commitment to believing (purporting to believe) that the proposition asserted is true and based on adequate evidence.
- **Directions pertain to priorities,** as reflected in the interlocutors’ goals: These are often deontic (pertaining to permission and obligation), or under certain circumstances buletic (pertaining to wishes). If suggested to an addressee, they propose the adoption of desiderata and/or goals, with a consequent adjustment of the addressee’s plans. These goals are conditional, intentions to realize some property or other should the relevant conditions obtain. If accepted by an addressee, then she is (conditionally) committed to those goals—she ought or she should or she must do what’s necessary to accomplish them, under the appropriate conditions, and under standard semantic accounts of the meanings of those modals.

These commitments, which follow from the nature of the game, amount to what Searle called *sincerity conditions on the performance of these acts, arising from the function of their canonical roles in the language game*. For speakers, assertions are associated with a commitment to truth, questions with a sincere commitment to inquiry, directions with a sincere belief that the realization of the proposed act by an addressee would further certain aims. Of course, this doesn’t entail that speakers actually have the relevant intentions. But making a speech act does incur commitments: it puts the speaker and/or addressee under obligation, and as we shall see:

(a) This has consequences for our understanding of the way that imperatives interact with deontic modality, and hence for what the class that Searle called *Directives* has in common with my class of Directions.

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6 Sperber & Wilson’s (1986 and subsequent work) Relevance is purely quantitative—defined in terms of maximum inferential pay-off for minimum cognitive effort. This notion is not relativized to goals or other contextual desiderata, unlike the notion defined above. Grice (1967), on the other hand, repeatedly talks about “the purposes of the conversation”, which I take to correlate to the goals and plans in G in the present theory.
(b) It provides the foundation of an explanatory account of performatives—Searle’s Declaratives—and of performativity.

Moreover, the three basic speech act types, and the associated commitments to sincerity, relevance and other reflexes of Gricean cooperation are together **essentially constitutive of what it is to play the language game**. These acts are basic to the nature of the game. To display competence in the game is to be able to understand and use these three types of moves under the associated constraints on cooperativity and rationality. To grasp the use of these moves and their conditions and effects is to understand the language game. Thus, to the extent that understanding the structure of discourse in this way proves useful in explaining how we interpret the things speakers say, this argues that the proposed three-way distinction reveals a great deal about the way in which we share meaning in the Gricean sense. If so, then this is an illuminating taxonomy: It helps to explain the mechanisms by which we grasp a speaker’s intended non-natural meaning.

Of course, in many languages grammatical mood is realized morphologically, e.g. with verbal affixes or particles. Once we have a paradigm, nothing prevents language users from extending it in various language-particular ways, to include other morphological moods. So, for example, in English and many other languages we also have exclamatives: *What a lovely day it is!, How odd that was!* But so far as I know this clause-type is not universally realized across languages.

3. **Clausal mood and the semantics and pragmatics of the imperative**

As noted above, the correlation between declarative and interrogative mood, on the one hand, and the semantic type of proposition or question, on the other, is well accepted, as is the default correlation between clauses in these moods (with their associated types) and what it is to be an assertion or a question in discourse. But the formal work on the imperative is more recent and as yet controversial, so that will be my illustrative focus here. I will offer a brief sketch of a new semantics and pragmatics for the imperative, with only a few illustrations to show how it works for the core cases. A full justification and comparison of this account with others in the literature can be found in Roberts (2015), along with detailed applications to a broader range of uses of the imperative, and to the more general mood that Zanuttini et al. (2012) call the *jussive*.7

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7 This term is used slightly differently by different authors. In Zanuttini et al. (2012) and that group’s related work, it is used to refer to the mood in a class of Korean clauses that include the imperatives, promissives and exhortatives. When the subject of such a clause is 2nd person, it receives an imperative interpretation; with 1st person it is understood to be promissive—to commit to speaker to realizing the property denoted; with 1st person plural subjects, it has an exhortative interpretation, urging the group to make this commitment. Wheelock (LaFleur 2011) uses the term *jussive* to refer to a mood in Latin which occurs in subjunctive main clauses to express a command or exhortation, e.g. “let us study this lesson carefully” (Chapter 28) or in subordinate clauses which denote indirect reports of “what someone has ordered, commanded, urged, persuaded, begged, etc.” (Chapter 36). The Summer Institute of Linguistics Glossary of Linguistic Terms ([http://www-01.sil.org/linguistics/GlossaryOfLinguisticTerms/WhatIsJussiveMood.htm](http://www-01.sil.org/linguistics/GlossaryOfLinguisticTerms/WhatIsJussiveMood.htm)) defines jussive mood as “a directive mood that signals a speaker’s command, permission, or agreement that the proposition expressed by his or her utterance be brought about”. The general idea seems to be that jussive in such languages may have an imperative sense if the understood subject is 2nd person, but unlike imperative mood may also take 1st person subjects to yield a promissive or exhortative interpretation, as in Zanuttini et al.’s (2012) use.
A **clause** is any sentential constituent with mood, even though clauses with different moods have different semantic types and differ in important syntactic features. Hence, a clause is not necessarily a constituent that denotes a proposition (e.g. an interrogative clause denotes a set of propositions), though it may denote a “complete thought” in the old-fashioned sense (e.g. there’s nothing intuitively elliptical about a question). Nor need all clauses have overt subject constituents in the syntax. One can take imperative clauses to lack a syntactic subject, but they do typically carry subject-agreement features, and always have a semantico-pragmatic subject, the entity (usually the addressee) which serves as target for the directed property denoted by the clause. So they are not simple VPs, but sentential.

There are two main types of proposals for the semantics of the imperative in the recent literature: The first type, exemplified by Wilson & Sperber (1988), Han (2000), Schwager (2006)/Kaufmann (2012), and Condoravdi & Lauer (2012), takes an imperative clause to denote a proposition with a built-in modal component. This is closely related to the proposal in Charlow (2014), who takes an imperative to denote a property of a plan, always carrying the force of necessity. The most subtle and detailed formal realization of this general approach is that of Kaufmann (2012), who **focuses on the modal** component of the meaning of an imperative clause. Here, modality is modeled on the approach due to Kratzer (1977,1981,etc.), relativized to contextually-given parameters, the modal base and ordering source. These functions together yield a modal accessibility relation which determines the set of worlds over which the modal is to range in order to determine the truth conditions for the proposition in which it occurs; if the modal’s force is that of necessity, it will have to be true in all the accessible worlds, if possibility, true in at least some of them. For Kaufmann, the modal base and ordering source capture the “relevant criteria” for the directive, characterizing the types of worlds in which the proposed action is to be implemented. Because of this flexible parameterization, the account can capture attested features of a wide range of uses of imperatives, both matrix and embedded; directive and desiderative, and including “weaker” uses of the imperative, such as suggestions and depictives, as well as “stronger” commands. The deontic character of the modal base and ordering source for an imperative explains the attested relationship between directives and deontic assertions. For example, the following are synonymous on this account, though they have different presuppositions for felicitous use:

(1) Go to school!
(2) You should go to school!

Kaufmann’s Kratzerian account naturally explains the common occurrence of conditional imperatives and gives them an intuitively plausible semantics. Kratzer treats conditionals as modal statements (which may have a merely implicit necessity modal in the main clause) with the *if*-clause serving as part of the restriction on the modal operator; technically, the proposition denoted by the *if*-clause is added to the propositions contextually retrieved by the modal base, and their intersection, further constrained by the ordering source, serves as the set of worlds over which the modal operator ranges. We see this in (3) and the corresponding modal conditional (4):

(3) If you have trouble updating your software, delete the current copy and re-install.
(4) If you have trouble updating your software, you must delete the current copy and re-install.
The instructions in (3) include criteria for their application: in case of trouble with one’s software. The deletion and reinstallation are only suggested if the addressee has trouble updating.

Kaufmann’s account also readily extends to embedded imperatives. Some languages, such as Slovenian (Stegovec & & Kaufmann 2015) have a wide range of uses of embedded imperatives. But even English has embedded imperatives, though their occurrence is more limited; e.g. in this language the understood target of the embedded imperative must be the actual addressee: John said eat his share of the chicken. He won’t get home til late. This is an important argument against including the illocutionary force of the imperative in its semantics, pace Han (2000), since such clauses do not display illocutionary force.

But there are problems with the modal proposition approach. One is that it fails to satisfactorily explain the lack of truth conditions associated with imperatives or why they cannot be used to make assertions. If someone tells me to wash my car, I can neither judge that true nor false. Since one can certainly make such a judgment about You should wash your car, this argues that the imperative and the deontic modal assertion are not synonymous. Kaufmann appeals to various pragmatic aspects of their meaning in order to explain this difference; for example, she argues that they cannot be used to make assertions because they are performative, and (supposedly) performatives cannot be used to make assertions. But ultimately it is a rather unsatisfactory feature of this type of account. Questions don’t have truth conditions, and their semantic type explains why. We feel that the type of imperatives should offer the same kind of explanation.

Another problem, observed by Gärtner (2015), is that imperatives do not take sentential adverbials that are acceptable with declaratives. We cannot felicitously say (5), though its modal counterpart (6) is felicitous.

| (5) | #Unfortunately, marry him! |
| (6) | Unfortunately, you must marry him. |
| (7) | Unfortunately, I now pronounce you man and wife. |

Finally, this account by itself doesn’t offer an adequate pragmatics of the canonical use of imperatives to issue directions; I refer the reader to Roberts (2015) for a critique in that vein.

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8 Matt Moss (p.c.) notes the acceptability of the following:

| (i) | [to a friend who’s considering not taking his meds:] Obviously, take them! |

I agree with his judgment. Ernst (2000) classifies obviously as an evidential (epistemic modal) speaker-oriented adverb, whereas unfortunately in (5)-(7) is an evalulative speaker-oriented adverb. I find his other evidential adverbs to be acceptable with imperatives, as well: clearly, plainly can acceptably replace obviously in (i). Other evalutives (luckily, oddly, significantly, unbelievably) and Ernst’s discourse oriented adverbs (frankly, honestly) are, for me, as unacceptable as unfortunately. Hence, Gärtner’s generalization seems a bit too broad. Nevertheless, all the evaluatives and discourse oriented adverbs are acceptable with deontic modal statements (the counterparts of (6)), leaving a distinction between imperatives and modal declaratives which cannot be explained on the modal proposition approach to clauses in the imperative mood.
The second prominent contemporary approach to imperative mood, exemplified by Portner (2004, 2007), Roberts (2004), and Starr (2013), takes an imperative clause to denote a property indexed (typically) to the addressee; these accounts typically focus on the pragmatics of direction. For example, in Portner (2007) if an imperative is proffered as a direction and accepted, the indexed property it denotes is added to the addressee’s To-Do list. He then offers a pragmatic explanation of the evident relationship between imperatives and deontic assertions, so that while on this account (1) above is not synonymous with (2), its use and acceptance entail it. Roughly, as noted in the previous section, all content on the scoreboard is reflected in the CG, so that (a) any publicly evident goals and intentions of the addressee count as commitments to act (if possible) to realize them, and (b) such commitments are reflected in the CG, in this case as deontic propositions. Portner (2007) works this idea out in formal detail; see also Portner (this volume).

But there are problems with this approach, as well. Briefly, because there is no modality in the semantics of the imperative clause itself, unlike in Kaufmann’s imperative propositions, there is no way to relativize interpretation to the flexible Kratzerian modal parameters, the modal base and ordering source, and so it is difficult to explain the full range of imperative flavors. Portner is aware of this issue, and addresses it by introducing multiple To-Do lists, with slightly different flavors, but this doesn’t seem entirely satisfactory. Given the broad variety of ways in which different modal bases and ordering sources can come to bear, how many To-Do lists would we need for a given interlocutor, and how should those be related? Furthermore, without a modal base there is no way to naturally capture the semantics of conditional imperatives like (3).

In Roberts (2015) I propose an alternative which attempts to reconcile these two general approaches and preserve the best in each, without building illocutionary force into the semantics of the imperative mood, by making an imperative clause denote an indexically targeted property (in English, always anchored to the addressee) which carries conditional presuppositions retrieved by a modal base and ordering source. Like Portner’s account, the denotation of an imperative is a property. But this account does not use a To-Do list. Instead, when such a property is proffered as a move in the language game—used to make a speech act—that use proposes a modification of the indexically targeted agent $x_i$’s goals, plans and priorities $G_i$.

Recall that $G_i$ consists of a set of $x_i$’s evident goals and priorities. A goal in this set is represented by a property that $x_i$ is conditionally committed to realizing; and these goals are organized by relations over goals indicating subservience, organization into plans, and priorities. We can keep the advantages of Kaufmann’s modal account by using Kratzer’s modal parameters, the modal base and ordering source, to relativize the denotation of the indexically targeted property-denotation. Those parameters effectively make the goal conditional: the modal base and ordering source determine the applicable circumstances for the conditional goal—those in which the agent is to attempt to realize the targeted property. Adding a new goal, corresponding to the targeted property denoted by an imperative indexed to addressee $x_i$, involves not only adding that to the set $G_i$, but in some cases relating that goal via subservience, etc., to others in $G_i$. Recall also that the CG tracks all changes to shared information on the scoreboard. So if the imperative is accepted and $G_i$ updated as proposed, then, as in Portner’s proposal, this addition is automatically reflected in a deontic proposition in the CG—that $x_i$ is committed (and so ‘ought

9 See also Bolinger (1977), a precursor.
to’) realize that goal, under the applicable circumstances, thereby explaining the correlation between imperatives and deontic modal statements.

Something slightly more abstract works for all the remaining imperative (and jussive) systems I’m familiar with, but with different constraints on resolution of the contextual parameters (e.g. for anchoring the indexical) from language to language.¹⁰

Formally,¹¹ take !f,g[SVP], to be the logical form of an English imperative clause, and take it to be uttered in context K (the scoreboard, including information about the interlocutors, their CG, QUD, evident plans and goals, etc.), indexed to the addressee xi, and relativized to modal base f and ordering source g. As in Kratzer, f takes a world w and time t (the circumstances of issuance) as argument to yield a set of propositions, each a set of worlds; their intersection ∩f(<w,t>), the set of worlds in which all those propositions are true, is then further constrained by g. Technically, g(<w,t>) also yields a set of propositions—reflecting some relevant ideals (e.g. the wishes of either the speaker or addressee)—and g(<w,t>) orders the worlds in ∩f(<w,t>) according to how close they come to realizing all those ideal propositions. Then the worlds of interest are those in ∩f(<w,t>) that are most ideal under g. Hence, these parameters work here exactly as they do in Kaufmann’s modal theory.

We define the applicable circumstances for a directed property, relative to f, g, and the world and time of issuance <w,t> as a set of circumstances (world/time pairs):

\[
\text{Applic}_{f,g}(<w,t>) = \{ <w',t'> | w' = w \& t \leq t' \& <w',t'> \in \cap f(<w,t>) \& \\
\forall <w'',t''> \in \cap f(<w,t>) : <w',t'> \leq g(<w,t>) <w'',t''> \}
\]

Paraphrasing, the applicable circumstances relative to f, g at a given circumstance <w,t> are those circumstances in the actual world w which are non-past with respect to the issuance time and are most g(<w,t>)-ideal among those where all the propositions in f(<w,t>) are true.¹²

Then given felicity (satisfaction of its presuppositions), an imperative’s proffered content is its realization conditions, what would have to be the case for the proposed goal to be realized:

**CONVENTIONAL CONTENT of English !f,g[SVP]:**
Given context K and circumstance of evaluation <w,t>:

**Presupposed content:**
- xi = addressee(K),
- f is a circumstantial modal base
- g is an ordering source reflecting xi’s goals, plans and priorities in <w,t>

**Proffered content:** (type <s,<e,t>>)

¹⁰ As noted above, for simplicity here I ignore Kaufmann’s Expressive imperatives, but address them in Roberts (2015) with a slight modification of the pragmatics for imperatives.

¹¹ All formal definitions below are paraphrased, so if you trust those you can ignore the formal definitions.

¹² Given the pragmatic role of a Direction, to add to the target’s goals, and the fact that goals are of their nature future-oriented, this stipulation may be unnecessary. But it remains to be seen how this plays out in embedded imperatives across languages, so I add this condition here for clarity. Similarly, it may be that the applicable circumstances are those in which the addressee ‘soon after’ realizes the prejacent. I ignore that here.
\( \lambda <w',t'> \lambda x \in \{x_i\} \cdot \text{Applic}_{cg}(<w',t'>) \subseteq ([x \in \text{VP}]^c)^{13} \)

The use of the imperative presupposes a targeted addressee, modal base and ordering source. The circumstance of evaluation \(<w,t>\) will be the circumstance of issuance; in matrix clauses, this will be the speech time/world \(<w^*,t^*>\), and in embedded clauses, it will be the eventuality reported in the matrix. The presupposed modal base \(f\) and ordering source \(g\) determine the applicable conditions in the actual non-past in which the prejacent is to be realized.

An imperative is **conditional** under the proposed semantics in that the applicable conditions for which the property is defined are determined by the contextually given parameters \(f\) and \(g\) for a modal base and ordering source. \(f\) and \(g\) are the usual Kratzerian parameters used for modal operators, the modal base here presupposed to be circumstantial and \(g\) to reflect the target’s goals, plans and priorities. As in Kratzer, a modifying \(if\)-clause adds its proposition to the modal base determined by \(f\).\(^{14}\) Then as in Kaufmann (2012), the identities and relationship of the issuer and the addressee \(x_i\), and the character of \(f\) and \(g\) all play a central role in determining the ultimate flavor of any direction issued with this clause—command, suggestion, etc. On this semantics, this comes about in the determination of the non-past applicable circumstances, \(\text{Applic(<w,t>)}\), those in which, should the imperative clause be used to issue a direction, the direction is intended to be realized. One might say that the semantics is modal, not only because of the use of \(f\) and \(g\), but also because the proffered content involves a relation between sets of circumstances, effectively necessity. But unlike in Kaufmann’s account, there is no (modal) proposition expressed by an imperative clause; its proffered content is a property.

In some contexts there may be but one set of applicable circumstances; e.g., if someone whose plane has been cancelled asks ‘what do I do now?’, one might answer ‘rent a car’, and in that case the current situation is the single applicable circumstance and it does obtain. Or, as in a recipe or directions, this may be a general instruction, intended whenever circumstances conform to the described scenario.

Recall from the previous section that the default use of a matrix imperative clause, the natural use in view of its directed semantics, is to issue a direction to the target agent:

**Direction:**

If a proposed direction \(!_iP\) is accepted by the addressee \(i\) in a discourse \(D\), then revise \(G_i\), and \(i\)’s associated evident plans to include the realization, in the applicable circumstances, of \(!_iP\).

\(G_i\) is revised to remove the realization of \(!_iP\) once it or the larger goals it subserves are no longer potentially applicable (e.g., it has been realized, or else it is determined that it cannot be practically realized).

So the semantics of mood merely determines the semantic type of the clause in which it occurs, and it is the pragmatics of sincere use that makes it an update. Addressee \(x_i\)’s acceptance of a direction leads to integrating the targeted property into \(G_i\), which means that \(x_i\)’s plans are

\(^{13}\) \([x \in \text{VP}]^c\) is the sense of \([x \in \text{VP}].\) the set of worlds where \(x\) has the property denoted by \(\text{VP}\).

\(^{14}\) I ignore here the so-called biscuit conditionals of Austin (1970).
revised to prioritize realizing VP should the relevant conditions of applicability obtain. Then, should \( x_i \) find herself in one of the circumstances in \( \text{Applic}(<w,t>) \), she (ideally) implements a plan to realize VP. But anytime one adopts a goal, whether as a consequence of a Directive or in the course of elaborating a group plan, etc., the resulting update of \( G_a \) for a given agent \( a \) may itself be quite complex. First, addition of a new goal to which the agent is committed also typically includes elaboration of a plan to achieve that goal, which plan itself may be complex and interact with other goals and with preconditions on achieving the plan. And just like belief revision in the CG, revision of a set of goals, plans and intentions \( G_a \) requires that \( a \) consider any pre-existing commitments that would conflict with the addition of the new goal (and the plans to achieve it), determine the relative priority of conflicting goals, and revise and re-order accordingly, which may require dropping some pre-existing goals or at least giving them lower priority. All of these revisions take into account \( a \)’s relationship to the speaker who proffered the Directive, \( a \)’s goals and commitments with respect to that speaker, etc. For example, relativizing the realization conditions to the target agent’s other goals, plans and priorities via \( g \), gives us a way of capturing the differences between, e.g., a command and a suggestion. The latter are typically intended by the issuer to suggest to the target how to proceed in the applicable circumstances if the proposed action is consistent with the target’s other priorities. A command, on the other hand, assumes that obeying the issuing authority is high priority, even obligatory, and that this would be reflected in the agent \( a \)’s \( G_a \). But, again like belief revision in the CG, this is a practical matter, not part of what it is per se to proffer or accept a directive.

Then we might say that the proffered directive is ‘given your current goals and plans, then if and when the applicable circumstances obtain and the proposed action is consistent with those goals and plans, you should realize the prejacent property’. As this makes clear, then, the pragmatics of issuing a Directive amount to making a proposal to update the ordering source \( g \); since \( g \) reflects (at least in part) the target \( a \)’s \( G_a \), proffering the imperative amounts to proposal for update of \( G_a \). Charlow (2011,2014) would make the semantics of the imperative clause itself be an update function on \( G \) (not his term, but the substance of his proposal). I note that Charlow’s semantics for an indicative clause makes it denote an update function on (his counterpart of) the CG, while an interrogative clause is an update on the QUD, so that his update semantics for the imperative is consistent with a general view of how the illocutionary force associated with grammatical mood is encoded semantically. But that is not the view reflected here, where illocutionary force is not semantic. So while related, these accounts propose quite different semantics.

As we saw in the scoreboard above, goals and the plans they motivate are themselves conditional, contingent on conditions of applicability; and a given agent’s goals are complexly organized. Accordingly, the goals of an interlocutor are not a simple To-Do list. A change in one’s goals is reflected in a change in one’s plans and priorities, and constitutes a commitment reflected in the CG. We have many conditional goals—intentions to realize some property or other should the relevant conditions obtain. We see this in instructions like (3) above. This does not imply that it’s ideal to delete and re-install one’s software. But in case one has trouble—under the applicable conditions—these instructions tell us that that is the best way to proceed. Similarly, with a recipe or directions, some are designed to be realized at some appropriate time in the future, when other conditions are right:

(8) When the egg whites are stiff from beating, fold in the sugar.
When you see the red firehouse on the left, turn right at the next corner.

When the goal proposed by an imperative is added to Gi, the applicable conditions given by f and g restrict the set of applicable circumstances, and the resulting interpretation is effectively conditional in Kratzer’s sense. But in the present account, we can say more. I take the use of f and g with an imperative to represent, respectively, information available in the interlocutors’ CG and the goals, plans and priorities of one or more interlocutor xi (the issuer of a command, the target of a helpful suggestion, etc.), Gi. That is to say, the interpretation of an imperative both draws on and leads to changes in these parameters of the context of utterance.

We see this in how the account of imperatives as proposals to adopt a conditional goal not only yields a natural account of overtly conditional imperatives like (3), but explains yet further facts about how context affects the interpretation of imperatives, as illustrated in (10):

(10) A and B are strategizing about how their gang is going to rob a bank:

\[
\begin{align*}
\text{(i) } & \text{A: Suppose the police arrive while we’re cleaning out the vault.} \\
\text{(ii) } & \text{B: We’ll elude them by escaping over the roof.} \\
\text{(iii) } & \text{A: What if our short-circuiting software fails and the alarm goes off?} \\
\text{(iv) } & \text{B: Grab the cash in the drawers and run!} \\
\text{(v) } & \text{A: Suppose the guard gets untied.} \\
\text{(vi) } & \text{Should I shoot him?}
\end{align*}
\]

In (10) the interlocutors are negotiating a plan. Besides directly planning how to achieve their goals, they consider various possible obstacles and contingencies and speculate about alternative ways of proceeding if/when they arise. So there are branching possibilities. In each branch, they consider ‘what to do’ as if acting out the plan. Earlier B might have said then tie up the guard, etc., just as-if they were in an actual situation in which that action was appropriate, modulo the anaphoric then. In this extended irrealis context, all proffered content is relativized to the hypothetical scenario being entertained, and as in modal subordination generally (Roberts 1989), the relativization has implications for the resolution of anaphora and other presuppositions. In (10i) A proposes consideration of one possible contingency; since this is a planning discourse, this raises the practical question of what to do in that circumstance. In (ii), B offers a plan to address that contingency; notably, the Reference Time for (ii) is clearly the immediate aftermath of the event described in (i), and them is resolved to the police. In (iii) A directly poses a question about how to plan for yet another possible contingency, and in (iv) B suggests what to do in that hypothetical circumstance, with the same relativization of Reference Time, and also domain restriction of the cash and the drawers to those in the bank. In (v), A proposes consideration of yet another contingency, and then in (vi) asks whether she should adopt a particular provisional plan in that case, shooting the arbitrary guard under discussion, thereby resolving him and, once again, the Reference Time—she’s asking whether she should shoot the guard at that point in time. Note that the imperative in (iv) is a conditional suggestion: ‘if the alarm goes off, grab the cash and run’. The modal should in (vi) takes the background scenario in the bank plus (v) as part of its modal base, and as its ordering source the understood goals and
priorities both immediate (get the money) and longer-term (get away, avoid the worst potential legal consequences, stay alive), yielding a conditional interpretation of the question: ‘should I shoot the guard if he gets untied’. And just so, the imperative in (iv) takes (iii) as one of the premises for its modal base, and the same general priorities for the ordering source. In all these cases, relevance to the question under discussion (as part of the practical strategy being developed) and the interlocutors’ understood joint and individual goals in G play a direct role in restricting the applicable circumstances to yield the natural interpretation.

Deontic modality generally is a reflex of such complex planning structures, and the goals, circumstances and priorities which drive and constrain them. The proposed goal (for the subject) associated with a deontic proposition Modal-\( p \) is the realization of the prejacent \( p \)—making the world fit the word; and the circumstances in which the realization of the goal is applicable are those given by a combination of a modal base \( f \) and ordering source \( g \), the latter reflecting some agent’s relevant priorities (e.g., speaker’s or addressee’s, God’s rules or the law, and/or the relevant permissions and obligations of the issuer or the target \( x_i \)). And not all an agent’s ideals and goals are straightforwardly modified as a consequence of acceptance of a deontic modal proposition targeted to that agent, so that, e.g., the adoption of a goal corresponding to a bouletic permission modal may be conditional on whether the permitted action pleases the target.

Imperatives, as characterized in the semantics above, are deontic in just this way. Via \( f \) and \( g \), with the same range of factors bearing on their selection as in the deontic modal statements, we derive the observed wide range of flavors of the imperative. And just as the requirement that a modal proposition be Relevant to the QUD at the time of utterance helps to resolve the intended \( f \) and \( g \), as we saw in (10v-vi) a competent cooperative speaker will intend that her Directives be Relevant to the QUD at the time of utterance, and expect her addressee to expect that as well, as in (10iii) and (iv), as well as in the over-arching set of decision problems (‘what to do’) being explored strategically in (10). Hence, Relevance to the QUD and other contextual factors is crucial for the recognition of the particular intended speech act intended by the speaker—here, differentiating among the different types of Directive in Searle’s taxonomy: asking, ordering, requesting, inviting, advising, begging, and more besides.

Thus, like the theory of Kaufmann (2012), the account of the imperative here has the flexibility to account for a far wider range of uses than that of Portner (2007), but without predicting that the resulting interpretation is propositional.

Note, finally, that \( !_{f,g[SVP]} \) is indexical in that it is targeted to one of the interlocutors—typically, as above in English, the addressee. In Korean (see Pak et al. 2008,2015) the target might instead be the speaker (for a promissive), or the joint interlocutors (for a desiderative), so that we replace the first presupposition, \( x_i = \text{addressee}(K) \), with: \( x_i \in \{\text{addressee}(K), \text{speaker}(K)\} \). Just as we find shifting indexicals in some languages when embedded under certain attitude predicates, in Korean the target of an embedded imperative under a verb of telling may be the third person addressee in a reported issuance event, as we see in:

\[
\begin{align*}
(11) & \quad \text{ku salam-i inho-eykey [swuni-lul towacwu-la]-ko malhayss-ta.} \\
& \quad \text{that person-NOM inho-DAT [swuni-ACC help-IMP]-COMP said-DC} \\
& \quad \text{‘He told Inho to help Swuni.’ (Pak et al. 2008:170)}
\end{align*}
\]
Here the third person addressee Swuni is the target of the embedded imperative clause headed by to\textit{wacwu}. An imperative is directed in that its extension is only defined for the targeted agent \(x_i\) in the applicable circumstances. So, as argued in Roberts (2015), the semantics proposed for English imperatives above can readily be generalized to address the variety of imperatives found across languages.

Summarizing, the semantic denotation of an imperative clause is not a proposition, but a property. But it is a very special property, one which gives the realization conditions for the clause, indexically targeted to the addressee. These semantics involve no illocutionary force operators, and hence are suitable for embedded uses. It is only in the use of an imperative to make a speech act that it comes to propose a goal to the target, through the pragmatics of directions.

Assuming this analysis, then given the correlation standardly assumed between the other clausal moods and semantic types, we get the three-way distinction noted above:

- **Declarative:** proposition, type \(<s,t>\)
- **Interrogative:** question, type \(<<s,t>,t>\)
- **Imperative:** property, type \(<s,<e,t>>\)

4. **Speech acts as moves in the language game**

Against the background of the pragmatic framework in §2 and the characterization of the semantics of the three universal types of sentential mood filled out with the discussion of the imperative in §3, in §4.1 I argue that the Searlean speech act performed by a given utterance can be predicted as a function of (a) the semantics of the constituent uttered, (b) the specific context of utterance, and (c) general principles for discourse evolution and for plan recognition. Though space precludes an exhaustive survey of all the types of classical speech acts, the examples considered, building on insights from earlier work on planning theory and speech acts, are designed to show how the resources offered should generally suffice. In §4.2 I briefly consider again the default correlation between sentential mood and speech act type, and use the discussion up to that point to support the contention, reflected in the Force Linking Principle of Portner (2004) and Zanuttini et al. (2012), that this correlation, though quite robust, is merely pragmatic, not part of the conventional content of the sentences uttered. And in §4.3 I briefly consider a view of performatives due to Condoravdi & Lauer (2011), defending it from criticisms by Searle, in light of the general framework proposed here.

4.1 **Speech Act recovery as intention-recognition**

How do we recognize a particular type of speech act when we encounter it? We have just considered how the different types of Directives expressed by an imperative may be contextually differentiated. Here we consider a broader variety.
Consider utterance U by speaker S to hearer H, pertaining to act A. This utterance can be characterized as a Request or a Promise only if it satisfies these criteria, drawn from Searle (1975):

**Directive (Request):**
- Preparatory Condition: H is able to perform A.
- Sincerity Condition: S wants H to do A.
- Propositional Content Condition: S predicates a future act A of H.
- Essential Condition: U counts as an attempt by S to get H to do A.

**Commissive (Promise):**
- Preparatory Conditions: S is able to perform A.
- Sincerity Condition: S intends to do A.
- Propositional Content Condition: S predicates a future act A of S.
- Essential Condition: U counts as the undertaking by S of an obligation to do A.

In the work of Austin and Searle, the development of such inventories tends to be lexically driven, the speech act typologies reflecting the acts we canonically perform in uttering an indicative with a verb like *request* or *promise*. But as definitions of act types, these conditions stand alone.

Now consider:

(12)  
Joan:  
   a) I want you to get a checkup.  
   b) Please get a check-up!  
   c) Will you please get a check up?  
   
Bart: OK. I’ll make an appointment with Dr. Josephson for my annual physical.

Would any of these possible utterances by Joan constitute making a request of Bart? (12a) clearly does. Use of *want* instead of counterfactual *wish* (Heim 1992) implicates that so far as Joan knows Bart is able to get a check up, satisfying the Preparatory Condition of a Request. The Sincerity Condition is explicitly satisfied—*I want*. And the infinitival pertains to a future action on the part of the object, here the addressee, satisfying the Propositional Content Condition. Does (12a) count as an attempt by Joan to get Bart to get a check up? That depends on their relationship. If she is his wife, mother, sweetheart or close friend, one might assume that what she wants matters to Bart, who wants to please her; if she is his boss, he is *required* to please her by doing what she wants insofar as reasonable. In any such case, Bart is motivated to adopt any reasonable obligation Joan suggests, and they both know this. Thus telling him what she wants him to do constitutes an attempt by Joan to get Bart to get a check up. Satisfying all these criteria, Joan’s (12a) is a request. Of course, here only the Sincerity Condition and the Propositional Content Condition are explicitly satisfied by Joan’s utterance itself, the Preparatory Condition and Essential Condition being contextually inferable, i.e. pragmatically implicated. So the classical theory would say that Joan’s (a) is only an indirect request. But it is quite clear in the context of utterance that this *is* the speech act performed. If it is also an assertion about Joan’s desires, so be it.
(12b) is a direct request: By virtue of the fact that the imperative is directed to Bart, Joan proposes that he add the future realization of this property to his goals, thereby satisfying the Propositional Content Condition and the Essential Condition. Proposing that an addressee add a goal to their plans is only reasonable (and thus cooperative) if the speaker believes that the addressee is capable of realizing that goal, so in directing Bart to get a check-up, we can assume that the Preparatory Condition of a Request is satisfied so far as Joan knows. As for Sincerity, I think that proposing that someone do something, absent evidence that this is something the target himself wants, can typically be counted as direct evidence that one wants him to do it (under the applicable conditions); but here please makes that explicit. So we only have to figure out whether we think Joan means what she says in order to determine whether the Sincerity Condition is satisfied. But presumably that’s the case more often than not with speech acts—one always has to gauge the sincerity of one’s interlocutors (as opposed to, say, a sarcastic delivery). In the absence of evidence to the contrary, we take it that she does.

Asking if the addressee will do something as in (12c) implies that so far as the inquirer knows he is capable of doing so (Preparatory Condition)—otherwise, why ask?—and the future will satisfies the Propositional Content Condition. Please plays the same role in this question as in the imperative, satisfying the Sincerity condition. But even more, it marks the question as an indirect request, since just like want it conveys that the speaker hopes for a positive commitment to this action; then as in (12a) and (12b), the Essential Condition is satisfied by virtue of this evident desire on the part of Joan plus the same kind of contextual knowledge about Joan and Bart’s relationship that played a role in the other examples. So, as in (a), (c) is an indirect Request, but its status in that regard is perfectly clear from the context. Further, though please helped to make the Sincerity Condition clear in these examples, if Bart knows Joan well the request would be clear without it.

Then immediately following one of these utterances by Joan, I would argue that Bart’s full response counts as a Promise to endeavor to see Dr. Josephson, fulfilling the conditions on that speech act type in this context of utterance. OK is a reply indicating agreement on the part of the speaker, Bart, with what the addressee, Joan, proposes, here understood by both to be a direct or indirect Request. The Preparatory Conditions and Propositional Content Condition on Promises are satisfied by Bart’s reply in virtue of its being a positive, agreeable response to what counted as a felicitous (direct or indirect) Request: since those conditions were satisfied for Joan’s utterance, they’re entailed by the Common Ground at the time of Bart’s. If Bart is understood to be making a sincere response and follow-up assertion, this satisfies both the Sincerity Condition and the Essential Condition: First, agreeing with a Request by saying OK in itself commits Bart to agreeing to accept Joan’s proposal. Then in order to be relevant, his immediate follow up will be understood to indicate how he intends to fill that request. Sincerely asserting that one will do something, as an indication of a plan to fulfill an accepted goal, publicly commits one to intending to do it. Bart’s failing to make the appointment would clearly disappoint Joan (given the satisfied Sincerity Condition of her request), and thus due to his motivation to please her, his OK plus this assertion about how he will do what she requests constitutes his undertaking an obligation towards Joan. So even though if it were uttered out of the blue I’ll make an appointment with Dr. Josephson for my annual physical might not be understood as a promise (it could be just a strange kind of prediction, uttered in a trance by a medium forstelling his own
future behavior), all of Searle’s conditions are satisfied in this context of utterance, the Sincerity Condition directly.

Of course, one might say that in Bart’s reply will is ambiguous, with one reading wherein it is simple future (the medium’s trance), the other indicating an inclination on the part of the subject Bart (the promise). But given a general Kratzerian account of how modal auxiliaries are understood in context, the question is how we know which modal base and ordering source for will the speaker intends, and in the absence of an if-clause this is purely a matter of context. The same kind of abductive inference is required to resolve the intended domain restriction for the modal as we use in determining whether the Searlean conditions are satisfied generally.

This conception of the speech acts performed in (12) might not conform to standard Speech Act theory analyses. But I want to underline how what matters on the analysis I’ve given is not the words uttered, but the meaning of an utterance and its implications in context. Searle’s characterizations of the speech acts of Requesting and Promising and the more general description of the various features of a speech act developed by Searle & Vanderveken (1985), make these out to just be things one does in saying something or other. The conditions jointly define what it is to do that sort of thing. Though Searle and various others have attempted to root illocutionary force in particular conventional features of what is said, there has never been a consensus that this is successful. Searle, Austin before him, and speech act theorists generally have tended to focus on acts associated with the use and meanings of particular verbs which, when used in an indicative sentence, might constitute an act of the relevant sort. But if you just take their characterizations seriously, without assuming any necessary correlation between the conventional content of what is said (e.g. the use of particular verbs) and the presuppositions and implications of what is said in context, we find that there are many ways of committing a certain type of speech act, not all involving utterance of the canonically correlated verbs. If all the conditions on a particular speech act type are apparently satisfied, then the utterance counts as an instance of that type of speech act. That is to say, on the present approach there’s nothing deep about the distinction between direct and indirect speech acts.

Generally, Searle takes it that a speaker performs an illocutionary act only if he intends that the hearer recognize his intention to perform that act. As Perrault & Allen (1980) point out, this is a Gricean condition. The sketch I have given here is intended to show how the realization of Gricean Relevance in the intentionally structured theory from §2, given transparent assumptions about the relationships between the interlocutors as reflected in the CG, make it reasonable for the speaker to intend and the addressee to recognize what they say in context as particular illocutionary acts, without necessarily using the performatives or other verbs that inspired these speech act characterizations to begin with.

This general approach to speech act recognition derives from the work on speech acts in Planning Theory, work that was formally implemented by a number of researchers working in

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15 On Searle & Vanderveken (1985), see the nice summary in Green (2015:19-20) and the overview of some of the relevant literature in Green (2015, §4).
16 See Charlow (2011) for extended discussion of the topic of indirect speech acts, generally compatible with the view promoted here.
computational linguistics in the 1980s and 1990s. All emphasize the role of practical reasoning: how we construct and implement joint plans and recognize the plans underlying the speech acts of our interlocutors. The basic thesis was that speech act type could be derived from conventional content plus the perceived goals and intentions of the interlocutors. E.g. Cohen & Levesque (1990) offer a theory of speech acts based on:

- an account of propositional attitudes like belief, knowledge, intention
- a theory of action and its relation to the attitudes, describing those conditions necessary to engage in action and those resulting from it
- a description of the effects of locutionary acts on the mental state of the participants
- definitions of the performance of illocutionary acts as “the performance of any action…under appropriate circumstances, by a speaker holding certain intentions”

The particular realization of the Planning Theory approach proposed here, in the framework for pragmatic analysis utilizing the notion of context sketched in §2, has another important payoff, already mentioned above. It affords the same kind of account as that pioneered by Portner (2004, 2007) of the attested entailment relationships between imperatives and declaratives with deontic modality, without imputing modal propositional content to the imperative per se.

Though, on the account in §3, directions contain no modal operator per se, any directions issued using imperatives lead, indirectly but regularly, to modifications of the CG in the context of utterance, as Portner and others have proposed. But here this needn’t be stipulated, and instead follows directly from the nature of the language game and its scoreboard (§2) and the essentially deontic (though non-propositional) semantics of the imperative (§3). The adoption of the goal associated with a direction is not an isolated matter, but requires revision of the target agent’s complex structure of plans, with the understood f and g in the interpretation of the imperative reflecting relevant contingencies and priorities in those plans. Since the state of G on the scoreboard is always reflected in CG as deontic propositions about the relevant agent(s) goals, etc., the primary pragmatic effect of acceptance of a direction—update of Gi for the target xi—regularly leads to the update of CG with corresponding deontic propositions.

Consider some of Portner’s examples, illustrating a range of deontic flavors for paired imperatives and modal propositions:

(13) a. Sit down right now! (order)
    b. Noah should sit down right now (given that he’s been ordered to do so).
(14) a. Have a piece of fruit! (invitation)
    b. Noah should have a piece of fruit (given that he’s hungry).
(15) a. Talk to your advisor more often! (suggestion)
    b. Noah should talk to his advisor more often (given that he wants to finish).

Because of the commitments involved in adopting a goal (see, e.g., Bratman 1987), when an imperative is accepted (as it must be in the case of an order issued by a legitimate authority), this

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publicly commits the addressee to intend to achieve that goal. Since all information on the scoreboard is reflected in the CG, knowledge of such commitments is encoded in propositions in CG to the effect that the addressee has those goals.

A proposition about goals is a modal proposition. Consider the proposition that agent \( x \) intends to bring it about that \( \varphi \) is true. This is a complex type of propositional attitude, a teleological attitude towards \( \varphi \) on the part of \( x \). In terms of a Hintikka-style (1969) treatment of the attitudes, if the proposition that \( x \) bears this attitude toward \( \varphi \) is true in world \( w \) at time \( t \), it means that all worlds \( x \)-teleologically accessible from \( w \) at \( t \) are worlds in which \( \varphi \) is true at some time \( t' \) s.t. \( t \leq t' \). Hence, an agent’s goals are reflected in teleological modal accessibility relations.

Typically a direction whose acceptance is appropriately reflected in the CG (and corresponding Context Set CS) may have an additional deontic flavor. For instance, if a Directive is issued (via utterance of an imperative) by a speaker who has authority over the addressee, this amounts to an order or demand, as in (13a). In that case, the addressee may have no choice but to accept the goal so proposed, and in addition, the corresponding proposition in the CG will not only be teleological, but also a very high priority—something the agent must do, according to the authoritative speaker. If Noah accepts the invitation of a friend in (14a), thus intending to eat a piece of fruit, the deontic in (14b) may be understood to range over worlds in which Noah is hungry (and presumably wants something healthy to eat), characterizing as ideal those in which he eats a piece of fruit. Without any authority of the speaker of (14a) over Noah, this will be a much less binding obligation than that in (13a), and accordingly (14b) may be true without Noah necessarily striving to realize his goal. We might say that for social reasons, the realization of (13a) has to be a higher priority for Noah than the realization of (14a). Thus, a variety of social circumstances (pecking order, etc.) and relations between the interlocutors will color the accessibility relations imposed on the CS as a consequence of acceptance of a Directive.

In the framework in §2, such propositions about goals for agent \( x \) restrict the worlds in the Context Set (CS, the worlds compatible with the CG) to those such that the \( x \)-teleological modal accessibility relation maps them to worlds in which \( x \) has achieved that goal at some future time. So all \( x \)’s goals as reflected in \( G_x \) on the scoreboard will be reflected in various kinds of teleological propositions in the CG. But this same type of teleological relationship between \( x \) and \( x \)’s ideal intentions is entailed by statements involving deontic modals like should in (13b), (14b) and (15b), on the standard Kratzerian account: In these examples, the speaker asserts a proposition which entails that the real world is one in which Noah ideally has certain goals—sitting down, eating fruit, talking with his advisor—and, if accepted, this assertion restricts the worlds in the CS to those which the Noah-teleological modal accessibility relation maps to worlds in all of which Noah has achieved the relevant goals at some future time. Accordingly, the resulting CG after (13a), (14a) or (15a) has been addressed to, and accepted by Noah, will entail the truth of their (b) counterparts. No stipulation is required.

On the other hand, it is a pragmatic consequence of (i) the meaning of the modal and (ii) the authenticity of the deontic authority appealed to, that the subject of (13b) is under obligation to perform the action in question. Thus You should sit down right now!, spoken to Noah by his father, when accepted by Noah has the same effect on the discourse scoreboard, and in particular on the publicly evident goals for Noah, as if his father had issued a direct command to perform
the act. Accordingly, corresponding to such modal propositions in the CG, there arise appropriately conditioned goals in $G_{\text{Noah}}$.\(^{18}\)

Moreover, the relationship just sketched follows naturally on the present account, where goals and plans are taken to be a central factor in the organization and direction of discourse. In contrast:

\[
\text{I do not see any way to account for this close connection between imperatives and modals within a classical speech act theory, since the effect of a directive act is not given a linguistically relevant representation.} \quad \text{[Portner, 2016, p.26]}
\]

Finally, in the QUD framework in §2, a Directive response to a QUD may have a particular deontic flavor as a consequence of the meaning of the question itself. To see this, first consider the following three contexts for the use of the direction \textit{Take a taxi}.

(16) [Joan is tired and has a lot of bags to carry home after a long day shopping. Her usual way home would be via the subway, but her girlfriend says sympathetically:] Take a taxi.

(17) [The boss is angry and irritated with an employee Joan who has been late to work several times lately because her car keeps breaking down. She claims he can’t afford to get a new car, but the boss gives her a withering look and says:] Take a taxi.

(18) [Joan had to work late and her husband is worried about her traveling home late at night on the subway alone. Talking to her on the phone before she leaves the office, she insists she’ll be just fine, but he says:] Take a taxi!

The speakers in (16)-(18) are all proposing to the addressee Joan that she adopt the goal of taking a taxi to the relevant location. But they have different power relationships to Joan in these three scenarios, the speakers themselves have different motives for proposing this goal, and in each case Joan herself would be understood to have different motives for possibly adopting it. As a consequence, we understand these speech acts in different ways. In (16) presumably the friend’s goal is to help Joan but she may have no particular desire for Joan to adopt this plan, and Joan’s motives to adopt the proffered advice may be relatively weak, so this constitutes a suggestion or advice. In (17), the boss’s goal is to force the employee to get to work on time, and Joan, subject to his authority, wants to keep her job, so this constitutes an order. In (18), we might take the husband’s goal is to be to protect Joan, and Joan herself might be afraid. Depending on the husband’s tone of voice and the general relationship between them, we might take this to either be a plea (begging), a request (there’s something in it for the husband too), or even an order.

But now consider cases where the Directive is issued in response to a question by Joan:

(17’) Seeing the boss’ anger, Joan asks: What must I do?

(18’) In response to her husband’s concern about her safety on the subway, Joan says: Honey I have to get home. What can I do?

In these cases, the force of the interlocutors’ reply is understood partly as a function of the nature of the modal in the question. Deontic must implicitly recognizes the boss’ authority over Joan. But can in (18) is circumstantial: This is a question of what Joan’s practical options are, and no authority is implied.

In all these cases, the evident goals and intentions of the interlocutors, as well as their common knowledge, including knowledge of their power relationships, play a role in the calculation of the intended effect of the speech act. But when there is a QUD, it plays an over-riding role: Even though the situations are the same, if Joan asked her husband the question What must I do?, she’d be acknowledging her husband’s Biblical authority over her, and his answer would be understood as an order. Following such a question, the only way to avoid taking (18) as an order if the husband explicitly denied that authority, as with presupposition rejection generally—Honey, you can do whatever you want, but I suggest that you take a taxi. This illustrates the special force of the QUD in interpretation, in this case in speech act determination.

In sum, as in the Planning based accounts, speech act recovery is intention-recognition, involving abductive inference to the best explanation, in view of the score and the nature of the game. And in the framework in §2, the nature of the context of utterance puts strong constraints on the type of speech act which it would be felicitous to make with a given utterance.

Note that, as reflected in the theory of Cohen & Levesque (1985) sketched above, the classical Planning-based approach wasn’t entirely satisfactory. This is partly because it failed to note any regular relationship between conventional form and speech act type. Morgan (1990:189ff) remarks on this problem: What is the bridge between the conventional truth conditional content of an utterance and the kinds of beliefs, desires and intentions which Perrault and his colleagues take to be basic features of how speech acts arise? And, extending this observation, why should we expect to find the universally attested three types of clausal mood and their correlation to specific speech act types? The missing component in these accounts is the canonical relationship between grammatical mood and illocutionary force, via semantic type. This is remedied in the present account by making the default force of an utterance—assertion, direction or question—to be given by its grammatical mood, as discussed in the following section, and by the standard pragmatics of these three kinds of speech acts, as spelled out formally in §2.

4.2 The default correlation between mood and speech act type

Recall from §2 above, the default correlation between sentence form and speech act type:

<table>
<thead>
<tr>
<th>Mood</th>
<th>Speech Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>declarative</td>
<td>assertion</td>
</tr>
<tr>
<td>interrogative</td>
<td>interrogation/question</td>
</tr>
<tr>
<td>jussive/imperative</td>
<td>direction</td>
</tr>
</tbody>
</table>

One central issue has been evident in speech act theory from the outset, as reflected in Searle’s (1975) taxonomy, from §1 above. Portner (2016) calls this the conventionalization question.
Generally, how do particular utterances of questions come to be associated with the force they are attested to have? Here is how he poses the question for imperatives:

**The conventionalization question:** How do imperative sentences come to be associated with directive sentential force? In particular, what are the linguistic principles that associate certain grammatical representations, namely those which we identify as imperatives, with directive force, rather than with some other force, or no force at all?" (Portner 2016)

Zanuttini et al. (2012), Kaufmann & Poschmann (2013), and Portner (2016) offer several reasons to take the correlation to be pragmatic rather than semantic. Among them, Portner notes:

- There are distinct means of formally marking clausal mood even within a single language:
  “The syntactic diversity of imperative sentences within languages like Greek and Italian shows that there is no simple correlation between grammatical form and the imperative speech act type. This fact poses a problem for speech act theory’s approach to the conventionalization question. As pointed out by Zanuttini and Portner (2003), it seems that it is not possible to identify any discrete piece of the morphosyntactic representation with the force marker.”

- The same morphological form may be used in different moods.
  “Kaufmann & Poschmann (2013) present evidence that colloquial German allows wh-interrogatives with imperative morphology and the associated directive meaning. They point out that this combination of the interrogative and imperative meaning is difficult to account for on the view that sentences are typed through the presence of an operator which assigns them their illocutionary force.”

In addition to these complex many-one correlations between mood and speech act type, in both directions, there are other reasons to take the correlation to be merely pragmatic—a function of the rules of the game, and not grammatical—determined by the semantics of the moods. One, noted above, is that embedded uses are not speech acts, have no independent illocutionary force; insofar as the semantics proposed above gives the correct contribution to truth conditions in these embedded uses, then it seems preferable to leave illocutionary force out of the compositional semantics.

But what counts as a move in a discourse game of the sort sketched here? This is a question posed clearly in Murray & Starr (2016), and I can only briefly address it here. I argued above that what potentially carries illocutionary force is an utterance, not a sentence alone. Recall that following Bar-Hillel (1971), an utterance is the ordered pair of a constituent (under an analysis, hence with its compositional semantics) and a context of utterance; call the first element of such a pair the uttered constituent. But what constraints are there on what kinds of utterance may serve as speech acts, as moves in the sense explored here? At first blush, it seems that only utterances whose uttered constituent is a main clause potentially carry illocutionary force. But this would ignore non-sentential utterances—cases where the utterance of a non-clausal constituent counts as, e.g., the answer to a question. And are subordinate clauses ever treated as moves in themselves, as speech acts? There is a tradition, recently represented by the work of Krifka (2014), in which they may be. If not, why not?
I think this is not a syntactic matter, *per se*, and hence not a matter for simple compositional semantics, but a question about what potentially constitutes a complete speech act. I would argue that the answer lies in the constraints imposed by compositionality, as well as its limits:

A **complete speech act** is one such that the proffered content of the uttered constituent is coherent and compositionally maximal, and has the type of denotation (either on its own or with contextually implicit modification) which can serve as one of the standard types of discourse move.

What someone says is semantically **coherent** if all of the functions denoted in what’s said are saturated with appropriate argument(s). An uttered constituent is **compositionally maximal** if it doesn’t serve as part of a larger semantically composed constituent.

If you have two clausal contents side-by-side, with no connectives, there's nothing to make them cohere; neither is a functor taking the other as argument. In that case, we can say that each is compositionally maximal, and (given that each is the right type to be asserted) hence potentially serves as a speech act in itself, so long as the speaker’s delivery suggests that that is what she intends. If a fragment cannot be understood to implicitly (in the context of utterance) have the content of a standard move (for which, see Ginzburg 2012, *inter alia*), then its utterance doesn't count as a complete speech act. Not all complete speech acts have explicit content denoting propositions or questions or directed properties (again, see Ginzburg); but any of the latter denotata, *if maximal* (e.g., *not argument to a higher functor*), *so that the entire utterance is altogether coherent* (all its functors saturated) may constitute a complete speech act.

This characterization fails to admit of embedded speech acts because by themselves embedded constituents are not compositionally maximal (since they serve as arguments to the main clause verb, conjunction, etc.). Also, since there are no clear examples where a single constituent plays a role in two distinct speech acts simultaneously, if an embedded constituent by itself constitutes a speech act, then the whole utterance in which it occurs could not be understood as a speech act, since without the embedded constituent it is incoherent (the argument of one of its functors unsaturated).

Further, the proposed definition of what it is to be a complete speech act is not semantic, since nothing about the utterance-internal semantics tells us "this is a complete speech act". A proposition-denoting declarative clause can serve as argument to a modifier or embedding predicate, a question-denoting interrogative ditto; a directed property-denoting imperative can serve as main clause in a conditional. Nothing semantic ever says "this is it!". The only purported exceptions that I know of from the literature are (a) so-called "speaker-oriented adverbials" and (b) evidentials. Ultimately, careful consideration of those two purported exceptions are crucial to my case. Potts (2005) has argued that the speaker-oriented adverbials are Conventional Implicatures, and so do not bear directly on the proffered content of the utterance. Evidentials are a more complex case, and still quite controversial; see Murray & Starr (2016) for extended discussion and additional references. This issue goes well beyond the purview of the current paper, but it should be noted that it has a direct bearing on the proposed account of speech acts.
Finally, the fact that features of speech acts can be derived from features of the language game, as illustrated in the previous section, and so needn’t be stipulated in the semantics of the moods themselves, argues that the principled separation of semantics from illocutionary force, the latter a function of pragmatics, results in a more explanatory account of speech acts.

Portner (2004) and Zanuttini et al. (2012) argue in detail for a picture along similar lines, where root sentences have non-illocutionary, compositionally derived semantic objects as their semantic values, and the linkage between sentence type and force is determined by basic theses of pragmatic theory. Semantic type explains the correlation with force, inspiring the present proposal. They assume that declaratives denote propositions and that imperatives denote properties formed by abstracting over the subject; they take a To-do List to be a set of properties, in contrast to the common ground, which is a set of propositions. Given this, a basic principle answers the conventionalization question:

**Force Linking Principle** (Portner 2004, Zanuttini et al. 2011)

a. Given a root sentence S whose denotation $[[S]]$ is a proposition, add $[[S]]$ to the common ground.

b. Given a root sentence S whose denotation $[[S]]$ is a property, add $[[S]]$ to the addressee’s To-do List.

We might add a third clause:

c. Given a root sentence S whose denotation $[[S]]$ is a set of propositions, add $[[S]]$ to the QUD stack.

The Force Linking Principle is realized in the present framework by the default correlations between mood and speech act type in §2. Though the mood-force correlation is not part of the conventional grammar on this account, it is canonical in the following sense: The correlation noted in the Force Linking Principle is natural. The semantic types of the root sentences lend themselves naturally to the tasks they canonically serve. The *canonical part*, the rule government, lies in the rules of the game, and in the requirement that the moves in question have the right content to contribute to the scoreboard as such a move should.

Mandy Simons (p.c.) suggests that we think of the Force Linking Principles as *conventions of use* in the sense of Morgan (1978): norms associated with particular forms, for reasons based in general pragmatic considerations. Because the norm is associated with a particular form, it need not be “calculated” on each occasion of use. But because a norm has this pragmatic foundation, it can also be over-ridden when other general pragmatic considerations or other linguistic conventions indicate a different intended interpretation. In any case, a convention of use isn’t a *grammatical rule.*
4.3 Performatives

A central motivation for speech act theory was Austin’s observations about performatives, a special class of speech acts which are self-verifying, in the sense that their very performance accomplishes a conventionally associated perlocutionary act:

- *I now pronounce you man and wife.*
- *You’re fired!*
- *I promise that I’ll fix dinner next Sunday.*
- *You’re hereby ordered to report to jury duty.*

These are all included in Searle’s (1989) Declarations.

There have been many attempts over the years to provide accounts of the performatives which reduce them to some form of assertion (Lemmon 1962, Hedenius 1963, Bach & Harnish 1979, Ginet 1979, Bierwisch 1980, Leech 1983, among others). These are accounts in which, as Searle (1989) puts it “it is just a semantic fact about certain verbs that they have performative occurrences”. In other words, their conventional semantic contents guarantee that when a speaker makes a felicitous assertion using one of these verbs as head in a first person present tense root declarative sentence, the result is automatically true. Most of these accounts, including the Planning Theory views discussed in §4.1, have not been entirely satisfactory in the terms established by Austinian Speech Act theory as developed by Searle.

Searle (1989:539) takes the following to be among the central features of performatives, and hence as establishing desiderata for an adequate theory of explicit performative speech acts:

1. Performative utterances are performances of the act named by the main verb (or other performative expression) in the sentence.
2. Performative utterances are self-guaranteeing in the sense that the speaker cannot be lying, insincere, or mistaken about the type of act being performed.
3. Performative utterances achieve features (1) and (2) in virtue of the literal meaning of the sentence uttered.

We might take (2) to mean that explicit performatives’ content gets added to the CG automatically (Jary 2007), unlike assertions, which are conditioned on the acceptance of the addressee. (3) argues that there should be a uniform lexical meaning of the main verb across performative and reportative uses.

Searle takes performatives to involve in their essential meaning a speaker’s intention corresponding to their sincerity condition. E.g. in the case of a promise (1989:545):

> in what does [a statement’s] being a promise consist? Given that the preparatory and other conditions are satisfied, its being a promise consists in its being intended as a promise.

Hence, to satisfy (2), an adequate account of performatives has to guarantee that this aspect of the meaning of a performative is automatically added to the CG. Searle then argues that
assertoric accounts of performatives are inadequate because they cannot guarantee that the speaker has the requisite intention (1989:546):

Such an assertion [as proposed in those accounts] does indeed commit the speaker to the existence of the intention, but the commitment to having the intention doesn’t guarantee the actual presence of the intention.

Further, Condoravdi & Lauer (2011:2) point out that if we take the speaker’s having the relevant intention to be required for the utterance to constitute a promise, then

It should be immediately clear that inference-based accounts cannot meet [(1)-(3)]. If the occurrence of the performative effect depends on the hearer drawing an inference, then such sentences could not be self-verifying, for the hearer may well fail to draw the inference.

But Condoravdi & Lauer’s (2011) assertoric theory of performatives seems to me to successfully address these issues. They give detailed formal semantic analyses of three performatives, claim, promise and order. For each, in keeping with desideratum (c), they begin by giving the lexical semantics for the predicate based on its meaning in non-performative uses, with third person subjects and non-present tense. On the basis of this analysis, they then explain how its use with first person subject and present tense satisfies desideratum (b), whereby in making the assertion the speaker makes the assertion true, leading to its automatic addition to the Common Ground. With respect to criterion (a), they agree that this should obtain, but argue that Searle has misunderstood what it is to be a promise or a claim or an order. For example, a promise does not require that the speaker intends to keep his promise, but only that he is committed to doing so. Thus, they call into question Searle’s Sincerity Condition on promises, discussed in §4.1 above.

Here is how one might understand their rebuttal (though this is not how they present it):
Consider Jason Stanley’s (2013) complaint about Fox News’ misrepresentation of their commitment to presenting a Fair and Balanced view of public affairs: Trust is crucial to the maintenance of the social compact underlying the language game. Fair enough. It’s trust that leads us to assume that a speaker is observing Gricean Quality, hence to be inclined to add the propositions they assert to the CG. Without this trust, we cannot achieve the goals of the game, to make progress in joint understanding. Similarly, it’s trust that leads us to expect that someone who has made an explicit promise intends to keep it. But though distrust can generally lead us to refuse to add an assertion to the CG, it doesn’t prevent us from adding a promise when it’s explicitly made, even if we think the speaker does not intend to keep his promise. This is because the act of asserting that one promises just is what a promise is: It’s about incurring an explicit commitment to act, and it is that commitment which is all that is required for it to be a promise. Thus, in this case the assertion is self-verifying, so is added to the CG despite one’s lack of confidence in the speaker’s intentions to meet her commitments. And there will be consequences if she fails to do so.

This account is consistent with the non-performative use of promise. Consider:

(19) He promised to come, but none of us believed he really meant it.
This sounds true and non-contradictory. If the fellow didn’t come, we can say he broke his promise, though nobody expected he’d come.

Hence Condoravdi & Lauer “circumvent [Searle’s first problem for assertoric accounts] by requiring only that the speaker be committed to having a belief or an intention (in our terms, an effective preference). On our view, *what matters for speech acts, or at least the truth conditions of performative verbs, is public facts*” [CR’s emphasis]. I concur.

About the automatic update of the Common Ground, they argue that no hearer inferences are required to derive the self-verifying nature of performatives. In the language game sketched in §2, the fact that an assertion happened always automatically enters the CG, even if that assertion is not accepted. But with the performatives, by virtue of the meanings of the predicates in question and certain social facts, the utterance is a witness for its own truth, i.e. “the content of the assertion is entailed by the fact that the assertion happened, and so this content will become part of the common ground automatically.” In my terms, the meaning of the performative predicate plus the way the game works together guarantee an update that entails the truth of the performative utterance.

More generally, successful felicitous speech acts don’t guarantee speaker intentions, only speaker public commitments.

Consider the related issue for the common ground: As Stalnaker (1979) argued, the common ground isn’t really a joint doxastic state—the set of propositions that the interlocutors believe and reflexively believe that each other believe—but instead is the set of propositions that they jointly purport to believe. Thereby they incur certain commitments, and these have consequences in the language game, and beyond. But we all know that it is likely that the common ground CG is nonveridical in certain respects; someone may have lied, and certainly some of our beliefs are false. Similarly, for any interlocutor $i$, the representation of their goals on the scoreboard in $G_i$ isn’t the set of goals that that agent intends to (attempt to) achieve, but instead those that it is publicly apparent that she is committed to achieving. The same can be said for the QUD: These represent the discourse goals that the interlocutors are committed to addressing. And here again, there are consequences in the language game for such commitments: One can be called to task for not sticking to the subject, and whatever one does say will be taken to be relevant to the QUD unless it is explicitly noted that it is an aside (i.e. irrelevant from the point of view of that question). But that’s all that’s required for the game to work as it does. To require sincere intentions is more than is needed or is attested by our colloquial understanding of verbs like assert or ask or order, as in the example (19) above.

Condoravdi & Lauer give a similar account of the other performatives they consider, and I think it generalizes quite nicely. Also, they note that their account, unlike the speech act story, can explain the interaction of performative predicates with the progressive, which cannot be used performatively even in the present tense. If performatives are accomplishments, then the progressive form doesn’t commit the speaker to the existence of an accomplishment (progressive doesn’t entail the culmination of the described event); but only the accomplishment entails the commitment.
One more point: Searle claims that Performatives have both directions of fit, word-to-world and world-to-word. The performatives considered in this section have word-to-world fit, on the present account, by virtue of the fact that they are assertions. But as we saw in §4.1, a performative Promise also has world-to-word fit, in the same way that a deontic assertion you must do P can put the addressee under an obligation to act if the interlocutors are in an appropriate power relationship. In the case of the Promise, this world-to-word fit is a pragmatic consequence of (a) the meaning of the predicate in question, (b) the nature of the act denoted by that predicate, and (c) the commitments incurred in making an assertion, since the utterance itself is witness to the truth of the proposition expressed. In virtue of the fact that meaning of the assertion is clear, and that the goals on the scoreboard are introduced whenever they are publicly evident, then this goal is automatically added to those of the speaker. Similar explanations can be given for other performatives that have deontic consequences. Hence, the only uptake required for such speech acts is that they be understood. Any other uptake—a belief in their justice or truth, commitments to achieving goals—is not necessary for the agent to incur the relevant commitments.

5. Conclusion

A central focus of classical speech act theory is on the kinds of speech acts made with particular verbal predicates, with special attention to those typically used to make performative speech acts with first person subjects. Instead, on the present view, the core conventional distinction that bears on speech act type is clausal mood—declarative, interrogative, imperative, each determining the semantic type of the clause in which it occurs: a proposition, set of propositions or property, respectively. In turn, these semantic types are canonically correlated with particular speech act types—assertion, question, direction—though unlike semantic type, the correlation between mood and illocutionary force is pragmatic and hence can be contextually over-ridden. I.e., on the account of speech acts proposed above, though sentences are conventionally marked with clausal mood, what carries illocutionary force is not a sentence, but an utterance.

The resulting account is simple and non-stipulative. The formal characterization of the notion of context of utterance as the scoreboard in a language game is independently motivated, and has been shown over the past twenty years to support illuminating accounts of a wide variety of pragmatic phenomena. Against this theoretical backdrop, the three basic illocutionary forces constitute the three basic types of moves in a language game, resulting in three basic types of update of the scoreboard. Making a move using one of these basic types is a speech act. All other speech act types discussed in the literature, including those in Searle’s taxonomy in §1, are more specific instances of those three types, their differences pragmatically implicated in particular contexts of use. The bridge between conventional content and illocutionary force is a pragmatic, default correlation, Portner’s (2004) Force Linking Principle, between the grammatical mood of the utterance and illocutionary force.

The proposed semantics of grammatical mood, determining the semantic type of the utterance in which it occurs, is empirically well-founded, arguably yielding the correct semantic types for

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19 See the evolving bibliography at [http://www.ling.ohio-state.edu/~croberts/QUDbib/](http://www.ling.ohio-state.edu/~croberts/QUDbib/) for a sample of this work.
embedded as well as matrix clauses. This is illustrated in §3 with a natural, elegant account of the semantics of imperative clauses which has these empirically superior features:

- An imperative clause is not propositional, so we avoid Kaufmann’s incorrect predictions in this regard. Its semantic type is that of a property.
- Imperative mood presupposes a Kratzerian modal base $f$ and ordering source $g$, which permit us to capture the deontic, conditional character of imperatives but without modal operators per se. This permits us to retain what’s best in Kaufmann, including the wide variety of flavors found in directions issued with imperative clauses.
- The imperative interacts pragmatically, both in the essential effect of its default use as a move in the game (as a direction) and in the way that $f, g$ are selected, with the independently motivated, complexly structured record of the interlocutors’ evident goals $G$, in a fashion that’s natural given the nature of the language game and discourse scoreboard. Thereby:
  - The account avoids Portner’s problems with the too-simple To-Do list(s).
  - It affords a natural implementation of Portner’s (2007) characterization of imperative-deontic relations. This turns out to be a specific instance of the way that indirect speech acts are generated, through regular pragmatic effects rooted in plan recognition and update in a context structured by intentions. So again, no stipulation is required.

A similar account of the illocutionary force of interrogatives as questions is given in Roberts (1996), and all this is consistent with Stalnaker’s (1979) account of declaratives as Assertions.

This account is not only empirically superior, it is explanatory, offering a functionally motivated explanation for the linguistic universals noted in §1: these three basic speech act types are universal because they serve as the three main types of moves in a language game. Each directly contributes to one of the three central repositories of information on the discourse scoreboard: assertions to the common ground (CG), imperatives to the interlocutors’ evidence goals and plans (G), and questions to the distinguished set of goals that drive and constrain felicitous utterances and their interpretations (QUD). Since we assume that the nature of the game, as reflected in this model of the context of utterance, is not language-specific but reflects what it is to engage in discourse, it is not surprising that (a) the three clause types occur across languages, universally correlated with the semantic types argued for here, and (b) the pragmatic correlation between semantic type and illocutionary force obtains across languages as well.

Moreover, this view of illocutionary force affords an account of how contextual factors evident to the interlocutors (as reflected in the scoreboard, and in particular in CG, G and QUD) regularly determine both

- what counts as a felicitous speech act in a given context, thereby constraining the speaker’s production in that context, and
- how the particular illocutionary force of an utterance is to be understood, thereby guiding interpretation.

It does this by implementing insights into speech act determination and indirect speech acts from the earlier work in Planning Theory and Charlow (2011). We can derive the kinds of speech acts which the Austin/Searle theory takes to be basic, without stipulation or the implication that there is some finite list of speech act types. Not only do speech acts contribute to the scoreboard, but we understand what someone means by an utterance —what speech act they intend to make—as a function of the interlocutors’ evident information (CG), goals and plans (G) and the question under discussion (QUD). In an imperative or modal assertion or a question, CG contributes
directly to the determination of the modal base \( f \), while \( G \) contributes to the ordering source \( g \); and in any case the resulting interpretation must be relevant to the resolution of the QUD. Speech acts needn’t be direct or fully explicit, so long as the context makes clear only one contribution that would satisfy all the constraints contextually imposed. But this particular implementation of the pragmatic derivation of illocutionary force addresses Morgan’s (1990) problem for the earlier work, by offering a bridge between the conventional truth conditional content of an utterance and the kinds of illocutionary force an utterance can be taken to have—the default Force Linking Principle of Portner (2004).

Finally, the proposed theory is consistent with a natural account of performatives as self-verifying assertions, meeting Searle’s (1989) objections to such accounts.

I don’t mean to suggest that Searle’s speech act types are without interest. He isn’t taxonomizing verb types, of course, but types of act (which can be performed with these verbs). Thus, the resulting taxonomy may be of interest in its own right in a theory of action, and especially in a theory of status functions and their role in social institutions (as he discussed in Searle 2013). However, it arguably isn’t motivated by linguistic pragmatics \textit{per se}. With an adequate theory of the latter, I have argued, we can explain how particular “performative” verbs, in their basic meaning, give rise to acts of the relevant sorts when used with a first person subject and present tense. More generally, we can derive Searle’s speech act types from the simpler taxonomy I propose, in combination with the conventional content of the utterances involved, the nature of the acts in question, and contextual information in the discourses in which they are used.

Most of the present account of speech acts, as acknowledged above, derives from prior work on the linguistic semantics of clause types, and on the role of plans and intention recognition in the determination of the speech act intended by an utterance in a given context. The contribution here is to use the discourse framework in §2 and a particular account of the semantics of imperatives in §3 to make clear how multiple factors simultaneously come to bear on speech act recognition: conventional content, including clausal mood and the corresponding semantic type, background information and presuppositions (CG), the interlocutors’ evident goals and plans (G) and the question under discussion (QUD). On this model, interpretation is like solving a simultaneous equation with multiple variables. The scoreboard tracks the contextual factors that enter in, and in turn its update \textit{in all those dimensions} is the target of speech acts. All these factors are independently motivated by other pragmatic phenomena, but they play exactly the role we need for speech act retrieval.

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