It is a great honor to have been asked to contribute to the Festschrift for Dorothy Edgington. When I was contacted by the editors, my initial reaction was that they had the wrong person and told them so. My work is mostly on the syntax and the syntax-semantics interface, with some morphology occasionally thrown in. The editors claimed they did not have the wrong person. In the end, I hesitatingly accepted their rejection of my self-proclaimed irrelevance and started wondering what I could say that might be of interest to a philosophical audience -- of course, more specifically, what I could say about the grammar of conditionals, one of Edgington’s most famous topics, that might prove useful to philosophers. To have any chance of doing this successfully, I would first need to find out what exactly philosophers believe about conditionals and grammar and identify possible misconceptions in those beliefs - because after all, confirming correct beliefs may be less helpful and is definitely less fun. But doing this thoroughly is, of course, an impossible proposition. Even so, I have made an attempt to look for assumptions or explicitly stated beliefs about the grammatical form of conditionals. I will address some of those.

I. What’s in a name?

The first point is one of nomenclature and therefore not “deep”. In addition, my impression is that most, if not all, philosophers are well aware of it. Even so, I would still compulsively like to make it. Counterfactual conditionals are frequently referred to as “subjunctive” conditionals. I do not know where this terminology originated, but it is clear that the subjunctive is neither necessary, nor sufficient to create counterfactual conditionals.

1 I am grateful to Kai von Fintel, Roumi Pancheva, Bob Stalnaker, Vina Tsakali and Lee Walters for comments.
The first (and too easy to be interesting) argument for the position that the subjunctive is not necessary to create a counterfactual conditional is the fact that there are plenty of languages that do not have a subjunctive at all and still have counterfactual conditionals (e.g. Dutch). But even for languages that have a subjunctive, it can be shown that calling counterfactual conditionals “subjunctive conditionals” is on the wrong track. To show that the subjunctive is not necessary for a counterfactual conditional, we will go to French. To show that it is not sufficient, we will go to Icelandic.

French has a subjunctive, which appears under verbs of doubt, for example²:

1. A: Marie avait un parapluie rouge hier
   Marie   had a    umbrella   red      yesterday
   ‘Marie had a red umbrella yesterday’

   B: Je doute que Marie ait / *a / *ait
      I doubt that Marie have/SUBJ / have/PRS/IND / have/PST/IND

      un parapluie rouge hier
      a    umbrella    red    yesterday
      ‘I doubt that Marie had a red umbrella yesterday’

However, the subjunctive is not used in counterfactual conditionals:

2. Si Marie avait / *ait un parapluie rouge, il l’aurait/ *ait
   if Marie have/PST/IND /SUBJ a    umbrella    red   he it have/COND/
   have/SUBJ

      vu
      seen
      ‘If Marie had a red umbrella, he would have seen it’

² Abbreviations:
   PRS=present tense
   PST=past tense
   FUT=future
   IND=indicative mood
   SUBJ=subjunctive mood
   COND=conditional mood
³ The star ‘*’ indicates ungrammaticality.
As can be seen above, the subjunctive appears neither in the antecedent, nor in the consequent.

In other words, there are languages that have a subjunctive mood, but do not use it in counterfactual conditionals.

In Iatridou (2000) (see section 2), I argued that in French, as well as in a number of other languages, what is necessary in the morphological make-up of counterfactuals is Past tense (and in some languages, Imperfective Aspect) and the subjunctive appears only if the language has a paradigm for the past subjunctive. As far as I know, no counterexamples to this generalization have been brought forth. Modern French does not have a past subjunctive. Its subjunctive is unmarked for tense. Hence, it cannot appear in counterfactual conditionals. Previous stages of French, however, did have a subjunctive which varied for tense, that is, there was a past subjunctive, and in that stage of the language, the past subjunctive was required in a counterfactual conditional. Modern French, on the other hand, uses the indicative, as it has no past subjunctive.

In French counterfactuals, the antecedent is in the indicative mood, and the consequent is in what grammars refer to as “le conditionnel” (“Conditional Mood”). However, the latter seems to be nothing more than the combination of past+future that we find in other languages, like English. In English, the past and the future element will combine to form would in the consequent:

i. English counterfactual consequent: Future+Past Verb; e.g. if he came, she would leave

In Greek, we have the same past+future combination in the consequent that we find in English but with one difference: in Greek, the future is the uninflectable particle tha, so the Past cannot go on the future marker, as it does in English. Instead, it goes directly on the verb:

ii. Greek counterfactual consequent: Future Verb+Past; e.g.
   an erchotan, tha efevge
   if come/PST FUT leave/PST
   ‘if s/he came, s/he would leave’

Now imagine a language that is just like English and Greek in that the counterfactual consequent contains Past+Future, but differs from English and Greek in that both the future and the past are morphemes that can go on the verb (i.e. “bound” morphemes unlike freestanding items like will and tha). This language looks exactly like French:
In French we found an argument that the subjunctive is not necessary to form counterfactual conditionals. If we look at Icelandic\(^5\), we will see that the subjunctive is not sufficient to make a conditional counterfactual. Icelandic has a past subjunctive and, as predicted by the generalization in the previous paragraph, uses past subjunctive to form counterfactual conditionals. However, there is also an environment where the subjunctive appears in a conditional without this being a counterfactual. Let me first introduce some general background to the phenomenon at large.

In certain languages, English among them, in certain conditionals, the verb can appear in the position where if appears, namely, just before the subject:

3a. If I had known that you were sick, I would have visited you  
   b. Had I known that you were sick, I would have visited you

That the verb had appears in the position of if can be seen from the fact that it necessarily precedes the subject. Many linguists talk about the verb “moving” to the position of the lexical item if but for present purposes, I will use the term “conditional inversion”. “Inversion” refers to the fact that the positions of the verb and the subject “invert”, that is, they exchange places. Inversion can also be seen in matrix questions in English, where the verbs has and is precede the subject, while they follow it in an assertion):

4a. Has he left already? (compare to He has left already)  
   b. What is she singing? (compare to She is singing the Marseillaise)

iii. French counterfactual consequent: Verb+Future+Past; e.g.
   Si il venait elle partirait
   ‘if he come/PST, she leave/FUT/PST
   ‘if he came, she would leave’

We are therefore not justified in calling the verb form in the French counterfactual consequent a special mood (“le conditionnel”). The particular form of the verb follows exactly from French being a language like English and Greek, in terms of the semantic needs of the consequent, but differing from them only in the morphological fact that the future is a bound morpheme as well.

\(^5\) Or for that matter, older stages of French.
The term “conditional” in “conditional inversion” obviously refers to the fact that the inversion we are dealing with occurs in conditional sentences. In many languages, English among them, conditional inversion happens only in counterfactual conditionals, not in non-counterfactual ones. Contrast (3) to (5):

5a. If he is sick, I will visit him  
b. *Is he sick, I will visit him

In other languages, Icelandic among them, inversion can also happen in non-counterfactual conditionals. In non-counterfactual conditionals, when conditional inversion does not happen, the verb is in the present indicative, as one would expect (contrast 6a to 6c). But when there is conditional inversion, the verb is necessarily in the present subjunctive (6b versus 6d):

6a. Ef hann hefur farið, kem ég  
   if he has/PRES/IND gone, come I  
   ‘If he has left, I will come’

b. Hafi hann farið, kem ég  
   has/PRES/SUBJ he gone I come  
   ‘if he has left, I will come’

c. *Ef hann hafi farið...  
   if he has/PRES/SUBJ gone

d. *Hefur hann farið...  
   has/PRES/IND he gone

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6 To my knowledge, inversion in non-counterfactual conditionals appears in a proper subset of the languages that have inversion in counterfactual conditionals. That is, I do not know of a language that has inversion in non-counterfactual conditionals but does not have it in counterfactual conditionals.

7 Data from Iatridou and Embick 1994.

8 The only inversion that matters for us is the one in the antecedent. The inversion in the consequent is irrelevant for our purposes as Icelandic is a “Generalized Verb Second language” and any constituent that is sentence-initial (like the conditional antecedent in our case) must be followed immediately by the verb.
It is unclear what the difference in meaning is between (6a) and (6b), or even if there is any to begin with\(^9\). However, it is completely certain that (6b) is not a counterfactual conditional\(^{10}\).

In other words, what we see here is that the subjunctive in a conditional is not sufficient to make it a counterfactual.

Since the subjunctive is neither necessary nor sufficient for counterfactual conditionals, the term “subjunctive conditionals” is inappropriately used for

\(^9\) The only difference that Iatridou and Embick 1994 found between inverted and non-inverted antecedents is that the former cannot be focused. This holds for Icelandic inverted non-counterfactuals as well (thanks to Johannes Johnsson for the data):

i. Aðeins ef Jón kemur, mun ég fara
   only if John comes will I go
   ‘Only if John comes, will I go’

ii. Aðeins komi Jón, mun ég fara
    *only comes John, will I go

iii. A: Undir hvaða kringumstæðum munt þú koma?
    Under what conditions will you come?

   B: Ef Jón fer
      if John leaves

   B’: *Fari Jón
      *leaves John

\(^{10}\) Putting aside the question of whether the subjunctive necessarily turns a conditional into a counterfactual (it doesn’t), Bjorkman 2010 argues that there is a close relationship between subjunctive and conditional inversion crosslinguistically (not just in Icelandic) and that this can also be seen in English, where were is a residue of the subjunctive, which used to be much more productive in earlier stages of the language:

i. If he were/was absent, the chair would have been offended
ii. Were/*was he absent, the chair would have been offended

As for the difference between the two expansions in (i), I have found that it is mostly, if not entirely generational. Older speakers prefer were, younger ones was. It seems that this little residue of the subjunctive of the verb BE is leaving the language.
counterfactual conditionals. And as a correlate, the term “indicative conditionals” is inappropriate for non-counterfactual conditionals, as there are plenty of languages where counterfactual conditionals are in the indicative mood: those that do not have a past subjunctive, and those that do not have a subjunctive at all.

II. If it is not the subjunctive, then what is it?

If it is not the subjunctive that marks a conditional as counterfactual, then how do we know if a particular conditional is counterfactual or non-counterfactual? It is clearly something about the look of the sentence.

There are languages that have a specialized counterfactual (CF) marker. One such language is Hungarian, where the CF differs from the non-CF conditional in the addition of the marker ‘nV’ (Aniko Csirmaz, p.c.):

7. ha holnap el-indul, a jövő hétre oda-ér
   if tomorrow away-leave the following week.onto there-reach
   ‘If he leaves tomorrow, he will get there next week’

8. ha holnap el-indulna, a jövő hétre oda-érne
   if tomorrow away-leave.CF the following week.onto there-reach.CF
   ‘If he left tomorrow, he would get there next week’

However, there are also languages where there is no such thing as a specialized CF marker but whose speakers still clearly know that they are dealing with a counterfactual conditional. How is this possible? In Iatridou (2000), I attempted to explore this question and found that CFness is morphologically marked by elements that are pooled from other parts of the grammar, that is, by elements that have uses/meanings other than CFness.

11 ‘V’ stands for vowel here. The specific choice of vowel depends on the vowel of the preceding syllable.
12I will be referring to CF-marked conditionals like (8) with the traditional grammarian’s term Future Less Vivid (FLV). Even though these mark the worlds of the conditional antecedent as unlikely to come about, rather than the more commonly associated meaning with CFs, in many languages they receive the same marking as what are more traditionally called CFs and so I will group them with CFs when relevant.
Specifically, there is a past tense morpheme that is not interpreted temporally and in many of these languages there is, in addition, an imperfective morpheme that is not interpreted as an imperfective, but I will not focus on the latter in the current context. I called these morphemes “fake past” and “fake imperfective” but one should not read much into the choice of this term. I merely meant that the meaning of this morpheme in CF constructions is not what it is outside of CF constructions. Let me illustrate.

Consider the pair of sentences in (9), which clearly show that the adverb ‘right now’ is incompatible with past tense:

9a. She had a car last year
   b. *She had a car right now

However, in a conditional, the combination now+past tense is just fine, yielding a Present Counterfactual (PrsCF). In other words, the situation described does not hold\(^\text{13}\) at the time of utterance:

10. If she had a car right now, she would be happy

Similarly, the adverb tomorrow is not compatible with past tense but in a conditional, this combination yields a Future Less Vivid (FLV; see fn 11):

11a. He left yesterday
   b. *He left tomorrow
   c. If he left tomorrow, he would get there next week

In addition, the presence of a fake past can be detected in sentences that contain a temporally interpreted past morpheme as well, i.e. there is a “fake” past in addition to a “real” past, that is, a past tense morpheme that is interpreted temporally (on the fairly common assumption that English pluperfect can be described as containing 2 instances of past tense). This combination yields a Past Counterfactual (PstCF), which indicates that the situation described does not hold at a time before the time of utterance:

12 a. He was descended from Napoleon
   b. *He had been descended from Napoleon

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\(^{13}\) I am putting aside the important question of whether counterfactuality is an implicature, a presupposition, or an entailment.
c. If he had been descended from Napoleon he would have been shorter

It seems that in all these cases, the fake past morpheme is somehow involved in making the sentences be CF. The actual temporal interpretation of the conditional is what it would have been without this fake past. Specifically, the conditional in (10) is interpreted as a PrsCF because without the fake past, its temporal interpretation would be about the present:

13. “If she had a car right now” – fake past = if she has a car right now

The conditional in (11c) is interpreted as an FLV because without the fake past, its temporal interpretation would be about the future:

14, “If he left” – fake past = if he leaves

Finally, the conditional in (12c) is a PstCF because without the fake past, its temporal interpretation would be about the past:

15. “If he had been descended from Napoleon” – fake past = If he was descended from Napoleon

In other words, counterfactual conditionals receive the temporal interpretation of the corresponding conditionals without the morphological mark of CFness14.

In (2000) I suggested one way how this might be done. I proposed a meaning for the past tense morpheme that is neither that of temporal past, nor that of CFness. This basic meaning turns into that of temporal Past or CFness after the addition of elements from the environment15.

14 This may have bearings on a debate that I understand exists in philosophical circles, namely whether counterfactuals are very different from non-counterfactual conditionals, including in basic properties. The default conclusion from the discussion in the main text would be that counterfactuals are just like non-counterfactuals, with the addition of a CF-marker. My understanding is that Edgington (1995) explores the possibility that counterfactuals are past tense indicatives.

15 Under this proposal, there is no “fake past”, obviously. This adjective was used descriptively to refer to non-Past uses of the “Past” morpheme. In my (2000) proposal, there is no morpheme which unambiguously means “Past”. That is, the basic meaning of
Since then there have been other proposals in the literature about how fake tense does what it does. The reader can consult the original paper for details, as well as subsequent work by others (e.g. Ana Arregui, Michela Ippolito) that aim to improve on that proposal.

III. The mark of then

Even a cursory perusal of the literature, shows that conditionals are referred to interchangeably as if $p$, $q$ and if $p$, then $q$. However, the switch from one form to the other is not innocent. In this section we will see differences between them that make this point\textsuperscript{16}.

For many cases, the effect of then seems negligible:

16a. If Pete runs for President, the Republicans will lose
   b. If Pete runs for President, then the Republicans will lose

But for several other cases, then seems impossible:

17a. If I may be frank (*then) you are not looking good today
   b. If John is dead or alive (*then) Bill will find him
   c. If he were the last man on earth (*then) she wouldn’t marry him
   d. Even if you give me a million dollars (*then) I will not sell you my piano

The difference between (16b) versus the sentences in (17), is that the latter all intend to assert the consequent. (17a) is a “relevance conditional”\textsuperscript{17}, a type of conditional in which the if-clause does not contain the conditions in which the consequent is true but in which it is relevant. In (17b) the if-clause is such that it exhausts all possibilities, hence the consequent is asserted. In (17c), the if-clause is chosen in such a way as to make a conversational move in which the consequent is asserted. Similarly for (17d).

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\textsuperscript{16} The discussion is based on Iatridou 1994. See Hegarty 1996 for an improvement.

\textsuperscript{17} Also sometimes known by the name “biscuit conditionals”.

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A rough approximation, in other words, of the contribution of *then* is that it brings with it a presupposition:

18a. Statement: if p, then q  
   b. Assertion: if p, q  
   c. Presupposition: there are some ~p cases that are ~q

It is obvious that the sentences in (17) violate the presupposition in (18c), as they leave no room for the existence of ~p & ~q cases.

On the other hand, this is not the case for (16b), where the presence of *then* contributes something like (18), cast within possible-world talk:

19. In some possible worlds epistemically accessible to me in which Pete does not run for President, the Republicans win.

When we force the acceptability of *then*, we force the existence of [~p, ~q] cases. For example, what would otherwise have been a relevance conditional, becomes something that Mary Poppins might have said, who was able to turn a situation of one being hungry into a situation in which a sandwich magically appears in the fridge:

20. If you get hungry then there will be a sandwich in the fridge. 

And in (21), we are forced to consider cases that do not fall under “rainy” or “sunny”. That is “rainy” and “sunny” together should not exhaust all possible weather conditions, if we want *then* to be acceptable:

21. If it is rainy or sunny then I will visit you (but if it is foggy, I will not)

Without *then*, (21) could have been taken to convey that I will visit you no matter what. But with *then* we are forced to take ~p possibilities into account. This is not possible at all in some cases, like (17b), where the existence of ~p cannot be accommodated.

Finally, we can see the effect of *then* when the antecedent is a presupposition of the consequent. In such a case, the ~p cases that are crucial to the presupposition brought in by *then*, will make the consequent suffer from presupposition failure. Consider the following sentences:
22a. If [Peter smiles at her], Kathy likes it
   b. If Peter cooks [something], he gives half of it to Kathy

As they are, the sentences in (22) are fine but once we introduce *then* they become variably\(^{18}\) odd, because if Peter does not smile or cook something, the pronoun *it* in the consequent will suffer from existential presupposition failure.

In short, *if* \(p, q\) cannot be used interchangeably with *if* \(p, \text{ then } q\).\(^{19}\)

IV. There is no magic in *if*

The item “*if*” is often used as short for “conditionals”. However, the presence of the item *if* is not necessary to have a conditional interpretation. For one, we can have what we called above “inversion”, where the verb appears in the position of *if*:

23a. If I had known you were sick I would have visited you
   b. Had I known you were sick I would have visited you

Even though in English, conditional inversion is restricted to counterfactuals, in other languages, it can also take place in non-counterfactuals. Above we saw Icelandic being such a language. German is as well:

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\(^{18}\) I say “variably” because my impression is that speakers need a little more time to compute the oddity that results from inserting *then* in (22) compared to (17). I suspect that parsing the correct reference of the pronoun might take a bit, but this is only an intuition. For example, Roumi Pancheva (p.c.) suggests that in (22b) there may be a parsing strategy in which the anaphora might be some form of modal subordination – “the thing that he would have cooked”.

\(^{19}\) *then* is also impossible in *only if* conditionals:
   i. Only if it rains will we stay inside
   ii. *Only if it rains then we will stay inside
   iii. *Only if it rains then will we stay inside

At first blush, the presupposition in (8c) would predict that *then* should be perfect with *only if* \(p, q\) as in the latter ALL \(~p\) cases are \(~q\) cases. However, discussing these will take us too deeply into syntax, which does not seem appropriate in the current context. For more details on the effect of *then* on *only if* \(p, q\) please see Iatridou 1994.
While inversion can happen in a number of environments, including questions, as we saw in (4), inversion of a tensed\(^{20}\) verb in an adjunct can **only** receive a conditional interpretation (Iatridou and Embick 1993). This generalization holds crosslinguistically; at least no counterexamples have been reported so far. In other words, a sentence like (23b) can never, for example, mean “Because I had known, …” and (24b) can never mean “Because Hans comes, Susan will leave”. This means that (23b) is just as much “necessarily” a conditional as (23a) and (24b) is just as much necessarily a conditional as (24a) is, even though *if* is missing in both (23b) and (24b). And by ‘necessarily’ I mean that the grammatical form of all four sentences only permits a conditional interpretation. If (23b) and (24b) do not contain *if*, yet receive a conditional interpretation, why then do we consider that *if* is the hallmark of conditionality? It clearly is not\(^{21}\).

\(^{20}\) It is crucial that the verb be tensed for a conditional interpretation. If we have inversion with a participle for example, the meaning is completely different. Consider Italian:

i. avendo Gianni finito il giornale, iniziò a leggere il libro
   having Gianni finished the newspaper, started to read the book
   ‘Gianni having finished the newspaper, he started reading the book’

\(^{21}\) I would dare venture the following guess, in fact: it may well be the case that the verb can move to the position of *if* and kick it out so to speak, exactly because *if* has no meaning of its own. Items like *because* or *although* can never be replaced by a verb because they do have a meaning of their own, which would not be recoverable under deletion. But if *if* does not contribute conditionality, how do we know to interpret sentences like (23a,b) and (24a,b) as conditionals? The answer may lie in the tense and aspect composition of the verbs, as well the construction as a whole. As we will see shortly, there is good reason to believe that all we need from the syntax to access a conditional interpretation is information of which clause to interpret as the restrictor and which as the scope of a quantifier over worlds.
The absence of if in the above sentence is the result of conditional inversion. There are quite a few grammatical constraints on conditional inversion and inversion in general and syntacticians have successfully explored and explained many of them. For example:

25a. If I knew the answer, I would tell you  
   b. *Knew I the answer, I would tell you

26a. He knew the answer  
   b. Did he know the answer?  
   c. *Knew he the answer?  
   d. *Did I know the answer, I would tell you

27a. Had he not seen the truck?  
   b. Hadn’t he seen the truck?  
   c. Had he not seen the truck, he would have been killed  
   d. *Hadn’t he seen the truck, he would have been killed

This is not the appropriate place to delve deeper into the syntax of inversion; the interested philosopher is encouraged to look up his or her friendly neighborhood syntactician and ask about “T-to-C movement”. The syntactician will understand this term and will know what to say.

There are also semantic and pragmatic effects of conditional inversion. An inverted antecedent cannot be focused (see also fn. 7). This generalization holds for all the languages in which it has been tested. For example, it cannot be a fragment answer:

28. A: When/under what conditions would Mary have come?  
   B: If she had been offered many artichokes  
   B’:*Had she been offered many artichokes

Nor can it be focused by only:

29a. Only if you had given me a million dollars would I have sold you my piano

22 Data here are from Iatridou and Embick 1993. See also Horn 2000 and Biezma 2011.
b. *Only had you given me a million dollars would I have sold you my piano

Nor can it be focused in sentences called “clefts”:

30a. It is if Walter had come that Susan would have left  
   b. *It is had Walter come that Susan would have left

So we learn two basic things from inverted conditionals: The item *if is not necessary to form a conditional and furthermore, different morphosyntactic expressions of conditionality come with their own slew of interpretive properties. Grammatical form matters, in other words. But they are still all conditionals.

In footnote 20, I suggested that maybe the reason that *if can be absent in conditionals is that it does not contribute to the interpretation of the sentence. One might wonder why, if *if has no meaning, why it is there to begin with. In syntax, there are conditions on the wellformedness of sentences as such. In fact, syntax is full of them. Often, these conditions take the form of the need for words that do not contribute to the semantics. One easy to spot example is the appearance of dummy verb do in non-subject questions:

31a. What did you eat?  
   b. *What you ate?  
   c. When did he leave?  
   d. *When he left?

but

32. Who ate the tiramisu?

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23 One could also make the quick and easy argument that *if is not sufficient either, as this item appears in embedded questions as well (not just in English, in many other languages as well):
   i. I do not know if he will be able to get here on time

This argument is a bit too easy, though, because the historical origins of this homophony are unclear.
The item *if* is called a complementizer. Complementizers are words that introduce clauses. The item *that* is a complementizer in the following example:

33. He thinks **that** she never calls him

Stowell (1981) found that in English, among other languages, complementizers may be optional when the clause they introduce is the object of a verb, as in (33), but they are required when the clause they introduce is not the object of a verb. That is, the complementizer in (33) can go missing:

34. He thinks she never calls him

But the complementizer cannot go missing when the clause is in subject position:

35a. that she never calls him bother him  
   b. *she never calls him bothers him

Similarly, a conditional antecedent is a clause and specifically, a clause that is not in the object position of a verb. It is what is called an “adjunct”. Therefore, its complementizer cannot go missing:

36a. We will go to the movies if it rains  
   b. *We will go to the movies it rains

If this path of thinking is correct, the presence of *if* is dictated by syntactic reasons and not because it makes a particular semantic contribution.

I will conclude this section by mentioning that some languages may not even have an item like *if*. By this mean that they do not have a morpheme that marks an adjunct clause as an antecedent of a conditional as such, yet, they have no problem expressing conditionals. This may be the case for Turkish, in fact, as I argued in Iatridou 2013.

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24 In the case of inversion, the verb moves to the position of the complementizer, as we said. So even though the lexical item *if* is missing, the complementizer position is filled.
V. And, there is no special status to if $p, q$

In the previous section I showed that one does not need *if* to make a conditional. In this section I will show that one does not need *if* $p, q$ either. That is, *if* $p, q$ is a particular syntactic form that leads to a conditional semantics. It is wrong to consider *conditionality* coextensive with the form *if* $p, q$.

We actually have conditionals with forms that are even farther removed from the old and familiar *if* $p, q$ than the sentences with inversion like the ones we have seen so far. For example, take a look at this conjunction (Culicover and Jackendoff 1999):

37a. She looks at him and he shies away in fear\(^{25}\)
   b. = if she looks at him, he shies away in fear

Moreover, the two conjuncts do not even have to be propositions. The first conjunct can be a nominal or an imperative:

38a. One more mistake and you are fired
   b. = if you make one more mistake, you will be fired

39a. Ignore your homework and you will fail
   b. = if you ignore your homework you will fail

Lest the reader doubt that “Ignore your homework” is, in fact, an imperative (because after all English morphology is quite poor and that form could be just about anything) we can go to languages where the imperative is explicitly marked as such, and we will see that we are definitely dealing with an imperative\(^{26}\):

\(^{25}\) Culicover and Jackendoff show that certain tense and aspect combinations are required for a conditional interpretation of (37a) and that those also hold for (37b):
   i. She has looked at him and he has shied away in fear ($\neq$ conditional)
   ii. If she has looked at him, he has shied away in fear (only epistemic)

\(^{26}\) See Kaufmann (2011) and von Fintel and Iatridou (2012) and references therein for more on this use of the imperative.
40. agnoise ta mathimata su ke tha kopis (Greek)
    ignore/IMPER the lessons yours and FUT cut
    ‘Ignore your lessons and you will fail’

The sentences in (37a, 38a, 39a and 40) clearly receive a conditional
interpretation. Therefore, why should we not call them conditionals? The
only reason why somebody might not do that is because s/he thinks that
“conditional” is the name for a particular morpho-syntactic form, namely the
one that has an adjunct clause introduced by if, which is also the syntactic
form chosen for the paraphrases in (37b) and (37b). But I find it hard to
believe that when philosophers talk about ‘conditionals’ that they think they
are referring to a particular syntactic construction. I assume they think they
are referring to a particular interpretation. But if that is the case, (37a, 38a,
39a and 40) have to be included in this class as well.

Again, we see that if or the syntax associated with it does not have a
privileged status when it comes to conditionality. And like before, we can
also see that the choice of grammatical form determines possible interpretive
choices. For example, conjunctions of this sort cannot yield epistemic
conditionals (41), and counterfactuals are restricted (42a,b):

41. His light is on and he is at home
    \[\neq \text{If his light is on, he is at home}\]

42a. One more mistake and he would have been fired
    b. *She had looked at him and he would have shied away in fear
    \[\neq \text{If she had looked at him, he would have shied away in fear}\]

And conjunctions like the one in (39a), that is, with an imperative first
conjunct have certain restrictions on the predicates involved (Bolinger
1967):

43a. Own a piece of property in this town and you get taxed mercilessly
    =If you own a piece of property in this town, you get taxed
    mercilessly

44a. Own this property and I’ll buy it from you
    \[\neq \text{If you own this property, I will buy it from you}\]
In short, we have the same bifurcated conclusion: Any sentence form that receives a conditional interpretation has to be classified as a conditional and studied as such. But grammatical form matters, as not all forms that receive a conditional interpretation have the same type of restrictions. There are quite a few more syntactic constructions that these two points can be made with, but I will mention only one more. The following sentence has been argued to receive a conditional interpretation (Stump 1985) but its form is obviously very different from if $p$, $q$:

45a. Standing on a chair$^{27}$, he will be able to reach the ceiling  
   b. = If he stands on a chair, he will be able to reach the ceiling

Sentence (44a) clearly receives a conditional interpretation but if we change the predicate slightly, the meaning immediately shifts:

46a. Having long arms, he will be able to reach the ceiling  
   b. $\neq$ If he has long arms he will be able to reach the ceiling  
   c. = Because he has long arms, he can reach the ceiling

I hope the general point has come across by now: if we study only conditionals that have the syntactic form if $p$, $q$ we narrow our vision considerably. We need to study a variety of different grammatical forms that receive a conditional interpretation. This way we will also be able to understand why and how and which possible meanings group together for each grammatical expression of conditionality.

To be honest, the mistake of identifying the interpretive category “conditional” with the syntactic construction if $p$, $q$ is also committed by linguists. Culicover and Jackendoff 1999 explore sentences like (37) and claim that they have identified what they call a “syntax-semantics mismatch”. They argue that this particular type of and is indeed syntactically a coordination (conjunction) but in the semantics, the sentence receives a conditional interpretation and this is a case of “subordination” according to them. This would be a problem because there is a common belief in generative grammar according to which semantic interpretation is fed by a level of syntactic representation, called “Logical Form” or LF. The surface

$^{27}$ Note that this is not a case of conditional inversion. There is no subject and the verb is not tensed. It is participle.
string, that is, the sentence that we pronounce, corresponds to an LF via a series of syntactic operations. Cases like (37) are a problem, according to Culicover and Jackendoff, because there are no syntactic transformations that will change a coordination into a subordination. This much is indeed true, there are no syntactic operations that we know of that will transform a structure of coordination into a structure of subordination. But do we need such an operation?

When Culicover and Jackendoff claim that we are dealing with a case of a coordination that turns into subordination, what they in effect say is that a syntax of coordination turns into the syntax of if \( p, q \), which indeed is a case of syntactic subordination. That is, they compare the syntax of coordination to the syntax of if \( p, q \). And indeed, this is an impossible syntactic derivation. But the syntax of if \( p, q \) is not the same as “semantic subordination” or “conditional semantics”. It is just one of the syntactic structures that can receive a conditional interpretation. In order to prove a syntax-semantics mismatch, they would need to give a semantics for conditionals for the semantic side of the “mismatch”. Instead, they give syntactic structures for both sides of the mismatch. This is because they wrongly identify the essence of conditional semantics with the syntactic structure if \( p, q \). But one should not. The syntactic structure if \( p, q \) is one of several syntactic structures that can yield conditional semantics, as we saw. And it is not the case that those other syntactic constructions should first turn into the syntactic construction if \( p, q \) before they receive a conditional interpretation. Why would they need to?

To prove a mismatch, one would need to first assume a certain semantics of conditionals, and show that it cannot be derived compositionally from a certain syntax. But they do not assume any conditional semantics. As mentioned above, they identify a particular syntactic construction with a conditional semantics.

So let us assume Kratzer’s semantics for conditionals, which is currently the most popular theory in the linguistic community, where one clause restricts a modal/quantifier over worlds (the antecedent) and another clause is the scope, a predicate of those worlds (the consequent). What we need from the syntax is an indication as to which clause is the restrictor and which clause is the predicate. One such indication can be seen in the syntax of if \( p, q \): the adjunct (whether it has the item if or not) is the restrictor. But why should that be the only possible flag? We have another indication with and, as we
saw in (37), in that the first conjunct cannot appear second, with the conditional interpretation being maintained.

47a. She looks at him and he shies away in fear

   b. ≠ He shies away in fear and she looks at him

Note that if-clauses can appear at the end of the sentence, since we already have a sufficient flag for which clause is the antecedent. We do not rely on word order to decide which clause is the antecedent and which the consequent:

48 a. If she looks at him, he shies away in fear

   b. = He shies away in fear if she looks at him

And we should also contrast (52) with (54), a garden variety conjunction, where the two clauses can be switched without effect on the meaning:

49a. London is the capital of England and Paris is the capital of France

   b. = Paris is the capital of France and London is the capital of England.

The inability to postpose the first conjunct in (52) may be exactly because we would then lose the grammatical clue as to which clause is the antecedent.

In short, coordinations like (37) and if p, q structures contain the same amount of information that a conditional semantics needs, at least for the identification of the restrictor and scope of the modal. There is no one privileged syntactic structure of a conditional semantics that all the other ones would have to turn into.

At this point, I would like to preempt a possible thought in the reader’s mind, which if it is there, is the result of a bias and has no grounds. The reader might think “All that is fine and well but the form if p, q is really what conditionals are and coordinations like (43) are marginal structures”
There is no basis for such a belief, however. Coordinations of this sort are crosslinguistically extremely wide-spread. They contain all the syntactic information one would want for a conditional semantics and are immediately and very easily identified as such by speakers. They, and other constructions like the ones we mentioned, are conditionals just as much as those of the \( if \ p, q \) form.

**VI. Conclusion**

In honor of Dorothy Edgington, I have tried to provide a gentle introduction to a grammarian’s view of conditionals for philosophers. I zigzagged through an assortment of grammatical properties of conditionals, with one of my main goals having been to show that grammatical form matters and moreover, that we should not consider “conditionals” coextensive with the syntactic form \( if \ p, q \), as in *If it rains, we will go to the movies*. The syntactic construction \( if \ p, q \) is merely one of several syntactic paths that lead to a conditional semantics. I hope this point is relevant because I assume that when philosophers talk about ‘conditionals’, they are talking about a particular *interpretation*, not a particular syntactic form. Overly narrowing conditional semantics to only one syntactic construction makes it harder to identify where each of the elements of meaning originates.

References


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