Instructions for Temporal Annotation of Scheduling Dialogs*

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Abstract

Human annotation of natural language facilitates standardized evaluation of natural language processing systems and supports automated feature extraction. This document consists of instructions for annotating the temporal information in scheduling dialogs, dialogs in which the participants schedule a meeting with one another. Task-oriented dialogs, such as these are, would arise in many useful applications, for instance, automated information providers and automated phone operators. Explicit instructions support good inter-rater reliability and serve as documentation for the classes being annotated.

1 Introduction

Research systems in computational linguistics are no longer assessed solely by appeals to researcher intuition on selected examples. Instead, system results usually are compared to independent interpretations of naturally occurring text. Therefore, the main purpose of this temporal coding task is to provide a benchmark for evaluating the performance of Artwork¹ on tracking the times discussed in scheduling dialogs. This includes the inference of missing or underspecified temporal information. To facilitate the evaluation, the temporal information is being recorded in a standardized format.

This coding can also serve as a starting point for obtaining a tagged corpus of temporal expressions in naturally occurring discourse. Such a corpus makes it easier to compare the performance of different research systems on the same problem. It also permits for statistical analysis, which might be useful for extracting temporal features.

Each dialog to be coded concerns two people trying to arrange for a meeting. For each utterance, you are to specify the time that is being referred to either explicitly or implicitly. This should only be based on an interpretation of the utterances that have already been encountered (the dialog context). That is, you should not revise answers in light of subsequent utterances.

Furthermore, you should interpret the text based on your common-sense intuitions regarding meetings, such as that they usually occur during normal working hours. However, in order to

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restrict the wide range of plausible inferences that can be applied, you need to limit such inferences to what can be *readily inferred* from the dialog. This vague notion will be discussed in detail later. For now, consider it as covering the obvious inferences. Surprisingly, these are often the most difficult to model via a computer.

See the guidelines section below for more information about these and other requirements. First, an example dialog will be discussed to show what is expected of you. Then, the coding representation is explained. You need to adhere to this format to ensure that the results are recorded in a common format. After the detailed list of guidelines, there is a section with additional coding advice. The appendix gives a complete example of a dialog coded based on these instructions.

2 Background

The following transcript illustrates the type of scheduling dialog you will be tagging. It is given in both the original Spanish and in the English translation. You do not need to refer to the Spanish version to perform this task; it is provided as background material for those who can read Spanish.²

- S1: (?Quihubo, Primo, qué pasó?)
- (1) What's up, Primo, what's happening?
- S2: (Nada, aquí nada más, ?cómo has estado?)
- (2) Not much, same old thing, how you been?
- S1: (Muy bien. Oye, necesito juntarme contigo. Necesitamos, este, discutir eh, uh, algo del proyecto. ?Cuándo tienes tiempo?)
- (3) Good. (4) Listen, I need to talk to you. (5) We need to, ahh, talk about, ahh, uh, something about the project. (6) When do you have time?
- S2: Hijola, pos, que dia estas pensando en...
- (7) Jeez, well, what day were you thinking about...
- S1: Pos si se puede mañana. Si se puede mañana. ?Tienes chance mañana?
- (8) Well tomorrow, if you can. (9) Tomorrow if you can. (10) Do you have a chance tomorrow?
- S2: (Pos depende en qué hora porque mira, para empezar como horita de las ocho a las diez, tengo una cita con el doctor y ya sabes como le entretiene a uno.)
- (11) Well, it depends on what time because, look, to begin with I have a doctor's appointment between eight and ten and you know the runaround they give you.
- S1: (Si)
- (12) Yeah.

²Subtle distinctions are occasionally lost in the translation, but this usually doesn't affect the temporal information.

The dialogs are divided into groups of consecutive utterances by the same speaker, which are called *turns*. Most of the turns have just one or two utterances, but a few have several, especially if the speaker makes a correction.

In this dialog, the first two turns are typical greetings that the speakers exchange. No temporal information has been conveyed. Next, speaker 1 introduces the need to have a meeting and then asks the other person to indicate availability. In reply, speaker 2 asks for a clarification. Although there is mention of "when" and "what day", these are not specific times, so they are not represented. Therefore, the entries for the first seven utterances would indicate no temporal information:

#	Start	WeekDay	Month	Date	Hour	Time of Day
	End	WeekDay	Month	Date	Hour	Time of Day
1		null	null	null	null	null
		null	null	null	null	null
2		null	null	null	null	null
		null	null	null	null	null
3		null	null	null	null	null
		null	null	null	null	null
4		null	null	null	null	null
		null	null	null	null	null
5		null	null	null	null	null
		null	null	null	null	null
6		null	null	null	null	null
		null	null	null	null	null
7	7 n		null	null	null	null
		null	null	null	null	null

This shows that time is being represented by intervals rather than by points, as there are starting and ending entries for all fields.³ The interval-based approach is commonly used in natural language processing, since it is closer to the way people usually express time periods. The example also shows that all the fields are explicitly filled in: in cases where no information is known, the special entry "null" is used. This is designed to eliminate errors due to coder omissions.

Starting with utterance (8), specific times are being discussed. Speaker 1 suggests "tomorrow" for a potential meeting. Since the dialog date is Tuesday, May 11th, 1993, we know that the time in question is Wednesday, May 12th. The next two utterances reiterate this request, so the times will be the same:

³An alternative representation would be to encode the start and end points separately along with the relation between the points. For instance, the entry for (8) would be split into two entries with a *precedes* relation between the two.

#	Start	WeekDay	Month	Date	Hour	Time of Day
	End	WeekDay	Month	Date	Hour	Time of Day
8		Wednesday	May	12	null	null
		Wednesday	May	12	null	null
9		Wednesday	May	12	null	null
		Wednesday	May	12	null	null
10		Wednesday	May	12	null	null
		Wednesday	May	12	null	null

It might seem odd that both the starting and ending times are the same. Doesn't this mean the interval has no length? No, since the hour and time of day fields are left unspecified. The representation indicates that the period in question starts some time on May 12th and ends some time on the same day. However, there are cases when the interval length will be zero. For instance, (10') "But remember the office closes tomorrow at 3pm" would be represented as

10'	Wednesday	May	12	3:00	afternoon
	Wednesday	May	12	3:00	afternoon

In response to the suggested date of Wednesday, May 12th, the other person gives a constraint that the meeting can't occur between eight and ten due to a doctor's appointment. Note that there is no mention of the meeting date, but this is readily inferred from the dialog context. Finally, the last utterance conveys no temporal information.

11	Wednesday	May	12	8:00	morning
	Wednesday	May	12	10:00	morning
12	null	null	null	null	null
	null	null	null	null	null

As indicated in the table, we also inferred that the time for (11) is in the morning. Although it might seem obvious that it must be in the morning, you have to be careful when you make this type of judgement. In this case, you'd be surprised if the appointment were in the evening (especially since it's a doctor's appointment). Thus, when in doubt about a time, determine whether it would surprise you if it weren't the case. Just leave the field as 'null', otherwise.

3 Code Format

For each distinct time mentioned in the dialog, please fill out the following information, using 'null' to indicate information that cannot be inferred and commas to separate fields. A template will be provided to help ensure that the correct format is applied.

```
[Label, SWeekDay, SMonth, SDate, SHourSpec, STimeOfDay, EWeekDay, EMonth, EDate, EHourSpec, ETimeOfDay]
```

The S prefixes fields for the starting time and the E prefixes those for the ending time. Each of the components in this structure is given in the following format, where the qualifiers are optional:

Field	Description
Label	Numeric label of the utterance (e.g., '1', '19a')
	Use '1_alt1', etc. for alternatives (see below)
WeekDay	sunday, monday,, saturday
Month	january, february,, december
Date	1, 2, 3,, 31
HourSpec	10, 12:15
	Omit the AM or PM indicator,
	since that is covered by the Time of Day field.
TimeOfDay	morning, afternoon, evening,
	breakfast, lunch, dinner,
	all-day
	Since meetings could last an entire day, be careful not
	to assume it will just be in the morning or afternoon.

Qualifiers	Description
before, after, during,	Mainly for use with TimeOfDay ('before lunch'),
early, mid, late	but could also be used with other fields ('after the fifth').

Figure 1: Possible Values for the Components of the Temporal Representation

```
([Qualifiers] TimeComponent)
```

Example (1) shows the exact format that is required. Possible values for the components fields are listed in figure 1.

- (1) "I'm free late in the afternoon on Monday the 19th until Wednesday"
 - [1, (monday), (august), (19), (null), (late, afternoon), (wednesday), (august), (21), (null), (null)]

A few examples will be given just to illustrate the desired format. The rationale for the content of the representation is covered in the next section. First of all, since qualifiers can apply to any field, the value for each component is actually a list of items. These lists are enclosed in parentheses to eliminate confusion. The whole structure is then enclosed in square brackets.

- (3) s2: "Yes but only early in the morning"
 [3, (wednesday), (september), (4), (null), (early, morning), (wednesday), (september), (4), (null), (early, morning)]

```
(4) s1: "Oh, then how about after the fifth?"
[4, (null), (september), (after, 5), (null), (null), (null), (null), (null)]
```

4 Coding Guidelines

Please keep in mind the following guidelines for specifying the times. The examples given assume the dialog date is Monday 19 August 1996. The calendar for this period follows:

August 1996

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

In what follows, the labeling convention for these examples uses a number followed by an optional letter suffix (e.g., '1a'). The number is based on the example number, rather than the utterance number. The letter is used when there is more than one utterance for the same example. Since there might be several examples together, this might be a little confusing. However, two utterances will be related only if the labels use the same example number as a prefix. For instance, in the following, utterances (5b) and (6a) would be unrelated.

- (5a) s1: "Good morning, Peter."
- (5b) s2: "Good morning, and how are you, Mary?"
- (6a) s1: "What day is best for you?"
- (6b) s2: "None really, since my schedule's quite full."

The guidelines follow.

- 1. Fill in missing temporal information based on what can be readily inferred from the context of the dialog. Avoid relying too much on common-sense assumptions such as about the most likely times for meetings. Unfortunately, there are no clear boundaries. Instead, you must use your intuition about what seem to be reasonable assumptions.
 - (7a) s1: "Let's meet tomorrow morning".
 - (7b) s2: "OK, how about 8 o'clock"
 - ok [7a, (tuesday), (august), (20), (null), (morning), (tuesday), (august), (20), (null), (null)] [7b, (tuesday), (august), (20), (8), (morning), (tuesday), (august), (20), (null), (null))]

```
(8a)
                 "We need to discuss the project soon."
          s1:
                "Well, let's meet Thursday after lunch."
(8b)
          s2:
ok
          [8a,
                (null), (null), (null), (null), (null),
                (null), (null), (null), (null), (null)]
          [8b,
                (thursday), (august), (22), (null), (after, lunch),
                (thursday), (august), (22), (null), (null)]
(9a)
                    "Let's meet Friday afternoon".
             s1:
             s2:
                    "OK, how about 3pm".
(9b)
not ok
                    (friday), (august), (23), (null), (afternoon),
             9a
                    (friday), (august), (23), (null), (null)]
             [9b,
                    (friday), (august), (23), (3), (afternoon),
                    (friday), (august), (23), (null), (afternoon)]
```

The representation for (9b) suggests the meeting ends in the afternoon (presumably since people usually don't stay late on Fridays). Thus it is a case of extrapolating too much from the dialog. Note that 'evening' would also be inappropriate, since the meeting might very well be short. Therefore, it's better to be noncommittal and use 'null'.

2. Only consider the previous utterances when interpreting the time of an utterance. So don't read ahead if you are unsure of the time. Likewise, don't revise previous answers. There might be transcription errors in the dialogs, which were recorded from actual conversations. Even if a later utterance reveals an error in an earlier one, do **not** go back and revise it.

Note that you may not be able to determine what all of the times are—sometimes speakers are too vague for a definitive time to be determined. Fill in a time when you are reasonably certain what the speakers mean.

3. Consider weeks as just workweeks. Therefore, omit weekends unless the dialog suggests otherwise.

```
(10) s1: "I am free all this week"
(10, (monday), (august), (19), (null), (null)
(friday), (august), (23), (null), (null))
```

When specifiers, such as first or last, apply to partial workweeks, the interpretation can be quite subjective. A rule of thumb is to consider only those with more than two working days.

```
(11) s1: "I was in Portland the first week of August" (11, (monday), (august), (5), (null), (null) (friday), (august), (9), (null), (null))
```

This shows that the period discussed is the interval from Monday the fifth to Friday the ninth, treated as a single unit. (The partial workweek Aug 1-2 is skipped.)

4. Be as specific as possible about the time for a meeting or for the speaker's availability. For instance, if a day of the week is specified relative to some week, just code the time for the day (not the entire week), as illustrated in (12a).

```
"Let's meet Friday next week"
(12a)
          s1:
                   "I can only meet next month"
(12b)
          s2:
(12c)
          s1:
                   "OK, then how about the first week"
                  (friday), (august), (30), (null), (null),
          (12a.
                  (friday), (august), (30), (null), (null))
                  (sunday), (september), (1), (null), (null),
          (12b,
                  (monday), (september), (30), (null), (null))
                  (monday), (september), (2), (null), (null),
          (12c,
                  (friday), (september), (6), (null), (null))
```

- (12b) shows that months should be interpreted as ranges from the first of the month to the last. Weeks are handled similarly except that weekends are not included.
- 5. If no end time is mentioned, then code the end time using as much of the start time as possible. For instance, if the start time mentions the day and the exact starting time in hours and minutes, use the day in the end time as well, but omit the HourSpec:
 - (13) s1: "Let's meet Thursday at 9am"

 (13, (thursday), (august), (22), (9), (morning), (thursday), (august), (22), (null), (null))
- 6. Don't just encode the time as literally given. Instead, encode it based on an interpretation giving the most information regarding the meeting or other scheduling event. For example, information on an entire meeting is more informative than just information on its start or end.

```
(14a) s1: "The meeting has to be Friday at 8am."
(14b) s2: "OK, just so it ends at 10am."

(14a, (friday), (august), (23), (8), (morning), (friday), (august), (23), (null), (null))

(14b, (friday), (august), (23), (8), (morning), (friday), (august), (23), (10), (morning))
```

Taken literally, (14a) would be represented as a point. But since meetings take time, the ending hour is left unspecified. Similarly, the encoding for (14b) provides more information about the meeting than what a literal interpretation of "at 10am" would provide.

7. Interpret simple events as instantaneous unless such events are usually considered as part of an extended event. As above, the encoding should indicate the time most relevant for the scheduling domain.

```
(15a)
          s1:
                  "Let's meet tomorrow afternoon at 3pm"
                  "Would we then adjourn at 5pm?"
(15b)
          s2:
                  "Yes, I'll remind you at 1pm."
(15c)
          s1:
          (15a,
                  (tuesday), (august), (20), (3), (afternoon),
                  (tuesday), (august), (20), (null), (null))
          (15b,
                  (tuesday), (august), (20), (3), (afternoon),
                  (tuesday), (august), (20), (5), (afternoon))
                  (tuesday), (august), (20), (1), (afternoon),
          (15c,
                  (tuesday), (august), (20), (1), (afternoon))
```

It is natural to consider (15a) as referring to a point in time, since you might interpret "meet" as "encounter", an instantaneous occurrence or simple event. But since we're concerned primarily with the scheduling domain, you should generally interpret "meet" as "hold meeting", a prolonged occurrence or complex event. Similarly, (15b) might be taken to refer to an instantaneous occurrence, just considering the adjournment itself. But it also should be represented as an interval, because the simple adjournment event is part of the complex meeting event (the focus of the domain). However, (15c) is represented by a point, since reminders are generally independent simple events.

Note that the distinction between instantaneous and prolonged occurrences (or simple versus complex event) is easier to see in other domains:

(16a) is represented as an interval since walking a dog is a complex event. (16b), in contrast, is represented by a point, since a dog-bite event usually is (relatively) instantaneous.

8. Consider the "big picture" when deciding on event interpretations. This guideline is implicit in the previous two, but it is important enough to emphasize separately. Since the same event can be looked at from different viewpoints (the event aspect), there might be confusion

on what to encode. In (17) below, the entire event is being referred to, whereas in (17'), just the start. Again, you should consider the temporal references at the level of the entire meeting event, instead of at the level of the viewpoint. Thus, (17) and (17') are represented in the same way.

```
(17) s1: "Let's meet in the afternoon"
(17, (null), (null), (null), (null), (afternoon)
(null), (null), (null), (null), (null))
```

Some people may read sentences such as (17) as meaning that the entire meeting must be held in the afternoon. For consistency of tagging, however, please encode these (and similar) examples as specified in this document.

9. Treat discrete times individually. Please, label each alternative (in the disjunction) with the suffix '_alt1', '_alt2', etc., as illustrated. Similarly, label each "required" time (in a conjunction) with '_and1', '_and2', etc.

```
(18) s1: "I can meet Wednesday or Friday"
(18_alt1, (wednesday), (august), (21), (null), (null),
(wednesday), (august), (21), (null), (null))
(18_alt2, (friday), (august), (23), (null), (null),
(friday), (august), (23), (null), (null))
```

```
(19) s1: "I can meet Tuesday and Thursday"
(19_and1, (tuesday), (august), (21), (null), (null),
(tuesday), (august), (21), (null), (null))
(19_and2, (thursday), (august), (22), (null), (null),
(thursday), (august), (22), (null), (null))
```

10. Treat time ranges as a unit represented by one interval. That is, use a single descriptor instead of a series of alternatives.

```
(20) s1: "I will be away the 22nd through the 26th" (20, (thursday), (august), (22), (null), (null), (monday), (august), (26), (null), (null))
```

11. When in doubt about an assumption you are making, ask yourself whether you would be surprised it if weren't the case.

```
(21) s1: "Let's meet at two"
(21, (null), (null), (null), (2), (afternoon)
(null), (null), (null), (null), (null))
```

The meeting of (21) is assumed to be in the afternoon, since you would probably be surprised if the meeting were instead at 2am. (You might object that you wouldn't be surprised at a 2am clandestine meeting, but remember to assume normal working hours and activities.)

```
(22) s1: "Let's meet at eight"
(22, (null), (null), (null), (8), (null))
(null), (null), (null), (null), (null))
```

Here you probably wouldn't be surprised if the meeting was at 8pm, so coding the meeting as in the morning might be assuming too much (unless, of course, something in the prior context suggests that the morning is intended).

- 12. Fill in fields that can be determined from other fields or from the dialog date. For instance, resolve dates to days of the week and use the current month when no other month could reasonably apply. Likewise, resolve temporal adverbs and phrases (e.g., "tomorrow", "in two days") to absolute dates based on the dialog date.
 - (23) s1: "Today is the nineteenth right?"
 (23, (monday), (august), (19), (null), (null)
 (monday), (august), (19), (null), (null))
 - (24) s1: "Are you free tomorrow morning?"
 (24, (tuesday), (august), (20), (null), (morning)
 (tuesday), (august), (20), (null), (null))
- 13. When trying to decide how much common-sense reasoning you can apply to the interpretation, consider how "specific" the times are that have been mentioned. In regards to time, it is generally safer to make assumptions going from the specific to the general. So it is safe to assume a meeting that starts at 1pm ends on the same day. But it is risky to assume that a meeting on a Monday won't start before 9am.

Similarly, consider the range of possibilities and the likelihood of the alternatives. If someone says "at 3 o'clock", the choices are 3am and 3pm, with the former being unlikely. However, if someone says "after 3pm", there are many choices (e.g., 3:01pm, 3:02pm, ..., 11:59pm), with those starting at multiples of 30 minutes being more likely (e.g., 3:30pm, 4pm, ..., 7pm). Thus, it would be safer to leave the corresponding entry null. This is how example (25) is handled.

```
(25) s1: "After the twenty fifth"
(25, (null), (august), (after, 25), (null), (null)
(null), (null), (null), (null))
```

Although the 31st might be considered a good ending time, there are other good possibilities (e.g., Thursday 8 September, which is two weeks afterwards). Note the special handling of "after", in which the day of the week is not resolved and where the qualifier goes with the day.

14. Since there is not a separate field for coding duration, omit the information when it cannot be coded using a pair of starting/ending fields.

```
(26) s1: "I can meet Thursday for three hours" (26, (thursday), (august), (22), (null), (null), (thursday), (august), (22), (null), (null))
```

```
(26') s1: "I can meet Thursday at 1pm for three hours" (26', (thursday), (august), (22), (1), (afternoon), (thursday), (august), (22), (4), (afternoon))
```

15. Be careful in coding the entries. Please double-check your answers. When filling out the form, you might have accidentally copied over a value from a previous entry.

Appendix: Complete Example of Coding a Scheduling Dialog

```
;; Dialog Date: 5 March 1993
                                                                                                        [11, [null], [null],
                     Mar 1993
             S M Tu W Th F S
1 2 3 4 5 6
                                                                                                        % (12 s1 a ver)
             7 8 9 10 11 12 13
                                                                                                       //
[12, [null], [null], [null], [null], [null], [null], [null], [null], [null], [null],
            21 22 23 24 25 26 27
            28 29 30 31
    ::
                                                                                                        % (13 s1 a ver)
% [Label, SWeekDay, SMonth, SDay, SHourSpec, STimeOfDay,
% EWeekDay, EMonth, EDay, EHourEpec, ETimeOfDay]
                                                                                                       [13, [null], [null], [null], [null], [null], [null], [null], [null], [null], [null],
Ε
                                                                                                        % (14 s1 a ver)
     (1 s1 +beg-sim+ me oye +end-sim+)
(listen to me)
                                                                                                       [14, [null], [null], [null], [null], [null], [null], [null], [null], [null], [null],
[1, [null], [null],
                                                                                                        % (15 s1 hoy lo tengo libre de hecho +end-sim+)
                                                                                                               (today i have free then in fact)
    (2 s2 +beg-sim+ hola +end-sim+)
                                                                                                       [15, [friday], [march], [5], [null], [null], [friday], [march], [5], [null], [null]],
[2, [null], [null], [null], [null], [null],
      [null], [null], [null], [null], [null],
                                                                                                           (16 s2 +beg-sim+ +end-sim+ oye)
     (3 s2 hola pepe)
                                                                                                        [16, [null], [null],
[3, [null], [null],
                                                                                                        % (17 s2 cinco)
                                                                                                              (five)
     (4 s1 hola)
       (hello)
                                                                                                        [17, [null], [null],
"
[4, [null], [null], [null], [null], [null],
                                                                                                        % (18 s2 cinco de marzo no)
% (fifth of march right)
      [null], [null], [null], [null], [null]],
     (5 s1 que1 tal)
                                                                                                        [18, [friday], [march], [5], [null], [null], [friday], [march], [5], [null], [null]],
       (what+s up)
[5, [null], [null], [null], [null], [null],
                                                                                                             (19 s1 si1)
      [null], [null], [null], [null], [null]],
                                                                                                               (yes)
     (6 s2 quieres hacer una reunio1n para la segunda semana de marzo)
                                                                                                        [19, [null], [null],
       (do you want to schedule a meeting for the second week of march)
[6, [monday], [march], [8], [null], [null], [friday], [march], [12], [null], [null]],
                                                                                                             (20 s2 yo tambie1n)
                                                                                                               (me too)
% (7 s1 bueno)
                                                                                                        [20, [null], [null], [null], [null], [null], [null], [null], [null], [null], [null],
       (ok *or* well *or* good)
[7, [null], [null],
                                                                                                             (21 s1 todo el di1a)
% (8 s1 vale)
                                                                                                        "[21, [friday], [march], [5], [null], ['all-day'],
                                                                                                               [friday], [march], [5], [null], ['all-day']],
[8, [null], [null],
                                                                                                             (22 s2 todo el di1a)
                                                                                                               (all day)
% (9 s1 si no hay ma1s remedio)
                                                                                                        [22, [friday], [march], [5], [null], ['all-day'], [friday], [march], [5], [null], ['all-day']],
[9, [null], [null], [null], [null], [null],
      [null], [null], [null], [null], [null]],
                                                                                                               (well look)
% (10 s1 pues vamos +beg-sim+ a por alla1 ver)
                                                                                                        [23, [null], [null],
       (well we will meet there)
[10, [null], [null],
                                                                                                              (24 s1 +beg-sim+ ahora)
                                                                                                               (now)
% (11 s1 mira)
```

```
[24, [null], [null], [null], [null], [null], [null], [null], [null], [null], [null],
                                                                                                               % (38 s2 nos vemos)
% treated as disfluency
                                                                                                                       (see you)
      (25 s1 +end-sim+ ahora son)
                                                                                                               [38, [null], [null],
     (now is ???)
[25, [null], [null],
                                                                                                                     (39 s1 hasta luego)
                                                                                                                       (bye)
% treated as disfluency
                                                                                                               [39, [null], [null],
% (26 s1 ahora son las once y diez)
       (now it is eleven ten)
                                                                                                                     (40 s2 hasta luego)
[26, [friday], [march], [5], ['11:10'], [null], [friday], [march], [5], ['11:10'], [null]],
                                                                                                                       (bye)
                                                                                                               [40, [null], [null], [null], [null], [null], [null], [null], [null], [null], [null],
% (27 s1 que1 tal < a > a las doce)
% (how about twelve)
                                                                                                                     (41 s1 adio1s)
[27, [friday], [march], [5], ['12:00'], [afternoon], [friday], [march], [5], [null], [null]],
                                                                                                                       (good-bye)
                                                                                                               [41, [null], [null], [null], [null], [null], [null], [null], [null], [null], [null]]
% (28 s1 doce a dos)
       (twelve to two *or* the twelfth to the seconf *or* the twelfth at two)
[28, [friday], [march], [5], ['12:00'], [afternoon], [friday], [march], [5], ['2:00'], [afternoon]],
% (29 s2 +beg-sim+ pero)
[29, [null], [null],
% (30 s2 +end-sim+ mejor despuels < de > de almorzar)
        (better after eating lunch)
"[30, [friday], [march], [5], [null], [after, lunch], [friday], [march], [5], [null], [null]],
% (31 s1 vale)
       (ok)
[31, [null], [null],
% (32 s1 pues a la una)
% (well at one)
[32, [friday], [march], [5], ['1:00'], [afternoon], [friday], [march], [5], [null], [null],
% (33 s2 vale)
       (ok)
[33, [null], [null],
% (34 s1 de una a tres)
% (from one to three)
[34, [friday], [march], [5], ['1:00'], [afternoon], [friday], [march], [5], ['3:00'], [afternoon]],
% (35 s2 vale)
[35, [null], [null],
% (36 s1 perfecto)
      (perfect)
[36, [null], [null],
% (37 s1 mira que1 fa1cil)
       (look how easy)
[37, [null], [null], [null], [null], [null],
        [null], [null], [null], [null], [null]],
```