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If you choose the first algorithm, which was developed for individual utterances, you may choose utterances that are not sequential. You might also want to look at the original Allen & Perrault article. If you choose an algorithm that attempts to deal with discourse (i.e., the remaining algorithms), then the utterances should all be part of a single segment or a pair of contiguous segments. The first utterance should be clause-length, but subsequent utterances may be of elliptical phrases (e.g., just a noun phrase).

Some cautions and additional constraints:

1. The Bretier and Sadek algorithm is only for the logically sophisticated and brave.

2. The Walker and Whittaker analysis refers to planning but does not directly use it. If you choose to use this algorithm, you will need to connect your conclusions to planning in some way.

3. Regardless of which algorithm you choose, you must choose utterances that seriously use or challenge the algorithm. Choosing utterances that allow "cheap shot" analyses will not be considered a serious completion of this assignment.

Include the following:

- Your whole dialogue with the utterances to which you have applied the algorithm or formalism clearly indicated.

- A step-by-step simulation of the algorithm or analysis applied to the sample.
• A critique of the algorithm or analysis (approximately 5 pages in length). This critique is an *important part of the assignment*; it should include discussion of questions like the following: How well does the algorithm apply to the utterances in your dialogue? If it does not do well, can you locate the source of the problem? Can you fix it (i.e., provide a modified algorithm)? In doing this part of the assignment, take caution #3 seriously.

If after attempting to find an appropriate segment of your dialogue to analyze, you come to the conclusion that your monologue is more appropriate for this kind of analysis, contact Prof. Grosz. You must make this determination *before* Tuesday March 7.
In this assignment you will choose a segment of your dialogue sample and apply a plan recognition algorithm to it. You may use any one of the following plan recognition or discourse segmentation algorithms:

1. the speech-act based algorithm described on pp. 738-742 of the Jurafsky and Martin reading;

2. the discourse-augmented speech act algorithm described in the optional Litman and Allen reading;

3. the Lochbaum SharedPlans-based algorithm;

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