HW10: Coreference and Discourse

Hand in at: `http://www.cs.utah.edu/~hal/handin.pl?course=cmsc723`. Remember that only PDF submissions are accepted. We encourage using LaTeX to produce your writeups. See `hw00.tex` for an example of how to do so. You can make a `.pdf` out of the `.tex` by running "`pdflatex hw00.tex`".

1. Consider the text below. Mark all named entities, pronouns, and common nouns that are coreferent. Subscript them to indicate which are coreferent with which others.

   > John went to the window and watched his daughter Sally play. He got hungry and made himself a sandwich. While he was making the sandwich, Sally skinned her knee.

2. For each of the coreference decisions you made in the previous example, what sort of linguistic or world knowledge did you use?

3. Take the abstract from the argumentative zoning paper, reproduced below. Label each sentence according to their detailed annotation schema. For each sentence, write down one or two features of that sentence that led you to your decision, preferably ones that you think a machine could compute.

   > In this paper we present a rhetorically defined ananotation scheme which is part of our corpus-based method for the summarisation of scientific articles.
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   > The annotation scheme consists of seven non-hierarchical labels which model prototypical academic argumentation and expected intentional 'moves'.
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   > In a large-scale experiments with three expert coders, we found the scheme stable and reproducible.
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   > We have built a resource consisting of 80 papers annotated by the scheme, and we show that this kind of resource can be used to train a system to automate the annotation work.