Natural Language Processing

Assignment J1

The purposes of this assignment are to see how spoken language differs from written language; and to appreciate the role of NLP in speech understanding.

1. Select a short utterance, and cover it with small, 100ms regions. Play each one of the regions individually, starting from the last one. What sounds do you hear?

   <u>   </u> <u>   </u>   <u>   </u> <u>   </u> <u>   </u>   <u>   </u>

   last region   next-to-last region   . . .   first region

   Now merge the regions into 200ms regions and repeat the procedure:

   <u>   </u> <u>   </u> <u>   </u> <u>   </u>

   last region   next-to-last region   . . .   first region

   Now listen to the entire utterance: what was it?

   <u>   </u>

   What fraction of your guesses were correct? <u>   </u>

2. Listen to the entire conversation up to the 10 second point. What do you predict will be said next?

   <u>   </u>

   What actually was said next? <u>   </u>

   Do the same up to the 15 second point:

   Prediction: <u>   </u>

   Actual: <u>   </u>

   And up to the 20 second point:

   Prediction: <u>   </u>

   Actual: <u>   </u>

3. Now go back and label in detail every utterance in the first 20 seconds of the conversation.

4. What is the longest utterance you found?

_____

What is its syntactic structure?

Is it ungrammatical or otherwise hard to analyze? in what way?

5. In what places are there speech errors or other interesting or problematic phenomena?

location: _____, description:

location: _____, description:

location: _____, description:

Why do you think these occurred?

Show the TA your labeling of the 20 seconds of data, and hand in this worksheet.