

## 1 Part 2 sentence

The sentence we chose for part 2 of the laboratory was (in Portuguese): "O Benfica marcou um gol.".

The translation to English becomes: "Benfica scored a goal.".

### 1.1 Neutral

For the neutral pronunciation of the sentence the input into the synthesizer was: "Benfica scored a goal." . Has expected ,apart from the foreign word "Benfica", it resulted in a perfect pronunciation of the sentence.

### 1.2 Emotions

When trying to replicate the emotions of happiness and sadness, we tried to end the sentence with exclamation points or ellipsis marks instead of full stops. The pronunciation didn't change with any punctuation change. We weren't able to mimic the emotions like we did with the Praat tool. This happens since the G2P system isolates words outside of the context of sentences therefore reducing the impact of punctuation.

### 1.3 Interrogative

For the interrogative pronunciation, at first, we only changed the full stop to a interrogation point. Although the pronunciation changed, it was not the interrogative pronunciation expected. This interrogative pronunciation only came to be after correcting the sentence grammatically, since, in English, the verb comes before the subject in questions. After changing the input to: "Has Benfica scored a goal?" the result was excellent sounding like a normal question.

## 2 Errors

After trying out several different inputs we noticed that the sentence: "I am trying to say voice." failed in the pronunciation of the last 2 words "say" and "voice". This last 2 words sound almost like "save us" instead of "say voice". The Cleaned Text output for this sentence was: AY1 AE1 M T R AY1 IH0 NG T UW1 S EY1 V OY1 S .

In fact the word "voice" seemed to cause problems many times with it's pronunciation in a variety of sentences especially if it came after the phoneme "i".