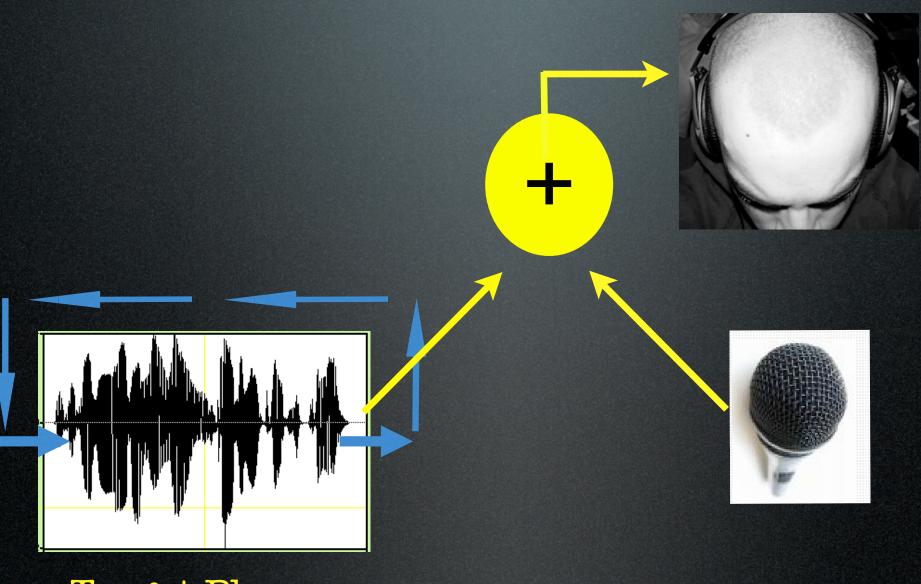
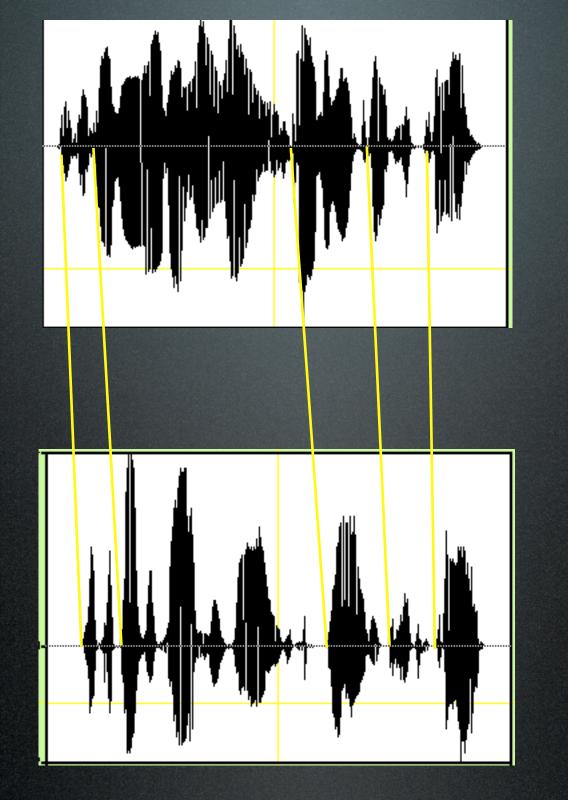
Repetitive Synchronous Imitation

A new tool for looking at timing

Repetitive Synchronous Imitation (RSI)



Target Phrase



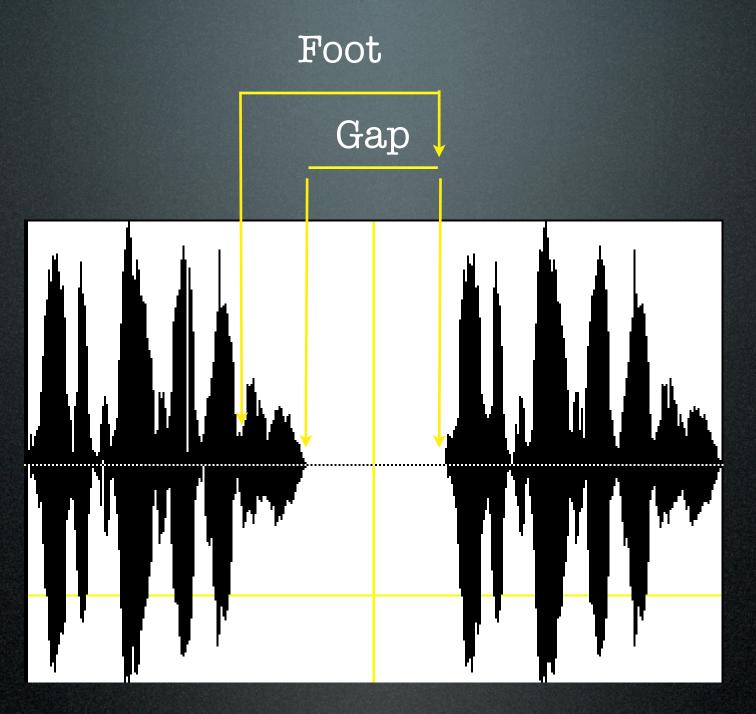
Origins of RSI

- Language teaching: Swedish prosody to L2 learners
- Developed by Gabor Harrar, at the Finnish Institute in Stockholm University
- Particularly effective at teaching pitch accent

Oh boy, oh boy, a new toy!

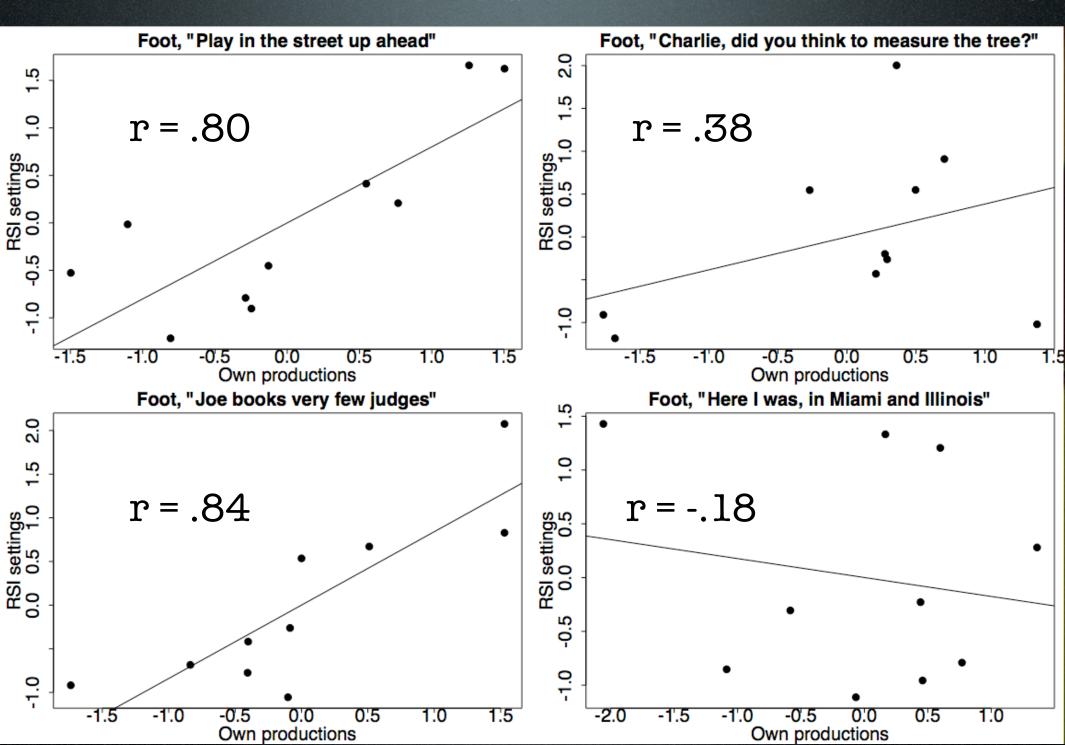
Rhythmic Expectation

- Allow subjects to set the silent interval between phrases
- Ss instructed to choose an interval they would like if they had to speak along with the target
- Compare the intervals they choose with those generated by free production



Joe books very few judges

Correlations between own productions and RSI settings



Initial observations

- Correlations, where present, reflect temporal expectation
- Expectations are high when a single syntactic unit is repeated (Not just a mean value)
- Expectations are less evident when the repeating unit is composite
- Foot+silence is a better indicator of expectation than silence alone

Other Potential Uses?

* Considerably more effective than mimicry

* Timing (rate, proportional timing changes)

* Intonation and Tone modification

What are the limits to intentional voice modulation?

CHAINS: CHaracterising INdividual Speakers

- 3 Corpora: each with parallel speaking conditions:
 - Reading alone
 - Reading with altered speech
 - Speakers modify speech towards a known target
 - Q: what remains invariant despite intentional modification?

3 Corpora

- Regular read speech +
 - Synchronous Speech
 - Mimicry
 - Repetitive Synchronous Imitation

Minor

Major

For Discussion

What might one do with this tool????