An Edinburgh Speech Production Facility

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3.1 Sensor Positions
Sensors were attached behind the ears, to the bridge of the nose, to the upper jaw, lower jaw, upper lip, lower lip, tongue front, tongue mid and tongue back.

3.2 Speech Styles

Monologue
Story reading (Comma Gets a Cure, McCaulloch, Somerville & Honnold, 2000). Williams linguistic sets, spontaneous story telling, diachronic tasks
Dialogue
Shadowing
One participant tells a familiar story, the other shadows.

3.4 Data Preview

Figure 7. From a 'Spot the difference' dialogue. Although the speaker could have held his tongue dorsum in position for /k/ in 'kind' following the vowel code in 'kinds', tongue dorsum movement traces suggest his tongue dorsum has moved downward during the hesitation pause. Lip movement traces suggest he has closed his mouth and opened it again during this interval.

Figure 8. From a 'Spot the difference' dialogue. Speaker B events to have begun movement towards /h/ (of 'shop') during the [k] closure of 'lamb' (see the bottom grey dotted lines), before Speaker A interrupts. The duration between the onset of A's speech and the end of [k] is ca. 100 ms, possibly the time it takes B to process that A is talking and to terminate his speech.

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