24.941J / 6.543J / 9.587J / HST.727J The Lexicon and Its Features
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THE LEXICON AND ITS FEATURES
6.976-9.912-24.921 FALL 2004

Professor Kenneth N. Stevens

Lecture 4 Continued   *09/30/04*

MODEL OF LEXICAL ACCESS

PRIMITIVE BLOCK DIAGRAM OF SPEECH PRODUCTION MODEL

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        ┌────────────────────────┐
        │     Phonological        │
        │    Representations       │
        └────────────────────────┘
                    │
                    ▼
        ┌────────────────────────┐
        │     Planning Stage       │
        └────────────────────────┘
                    │
                    ◄────────────  Discrete
                    │              representation
                    ▼
        ┌────────────────────────┐
        │   Gesture Calculations   │
        └────────────────────────┘
                    │
                    ◄────────────  Continuous gestures
                    ▼
        ┌────────────────────────┐
        │     Vocal Apparatus      │
        └────────────────────────┘
                    │
           Sound ▼ Output
```
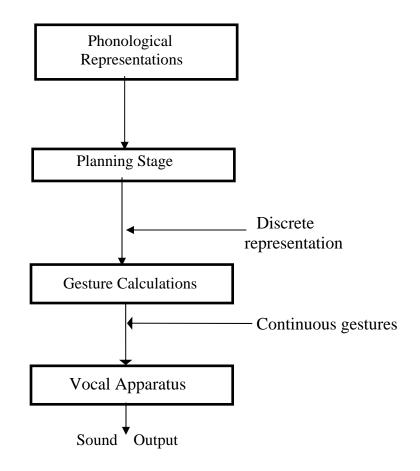
Figure 2. A Planning Stage is added to the basic components in Figure 1.

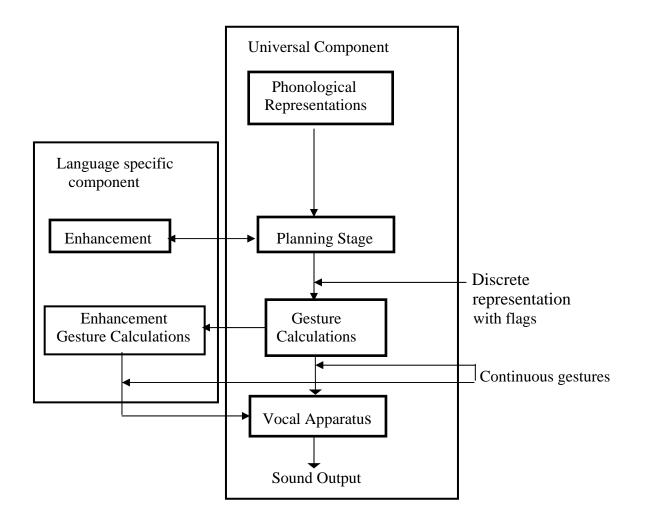## ADDING ENHANCEMENT GESTURES

Figure 4. Enhancement and enhancement gesture calculations are added to Figure 2. The Enhancement component augments Planning Stage representations by flagging relevant features. Enhancement gestures are calculated for these flagged features.
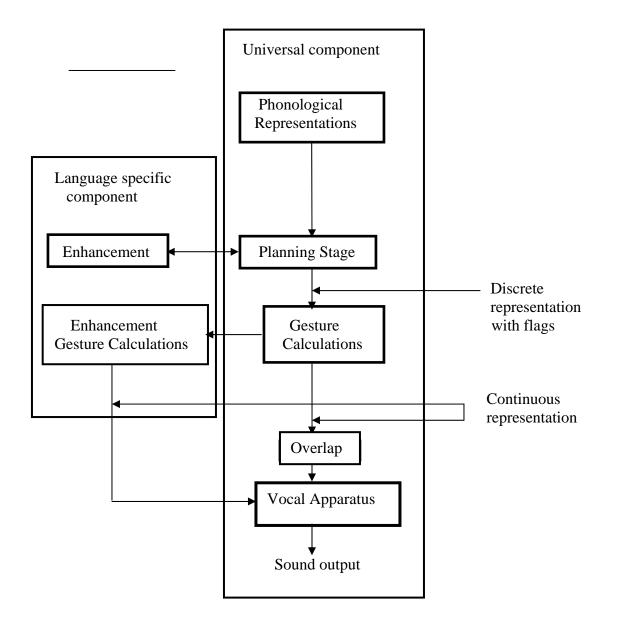
ADDING OVERLAP COMPONENT

Figure 8. Figure 7 is modified to indicate that enhancement gestures are not subject to overlap.