

Sentence Production

Beginning research focused on speech errors

More recent experimental

Questions:

1. Stages in production process
2. Scope of planning
3. Interaction vs. modularity

Examples of Sentence Level Speech Errors

They hissed my mystery lectures. (attributed to Prof. Spooner)

She wore a gownless evening strap. (from Freud)

Freudian Slips?

Stages in production process an issue because:

1. Simultaneity of ideas to be expressed in clause, sentence
2. Transform to linear sequence of words
3. Word choice, grammatical structure to be planned

Sound Exchanges

T - Be careful on the slick streets.

A - Be careful on the strick sleets.

T - His first perception was ...

A - His pirst ferception was ...

T - Children interfere with your night life

A - Children interfere with your light knife.

Word Exchanges

T - I'll take my check to the bank.

A - I'll take my bank to the check.

T - I won't go to the grocery store to buy

A - I won't buy to the grocery store to go....go to the grocery store to buy

T - Did you ask her why my room matched my personality?

A - Did she ask you why my room matched my personality?

T - My room's empty without my chair.

A - My chair's empty without my room.

T - "Shake it up" came out.

A - "Shake it out" came up.

Different properties of sound and word exchanges

Properties of Sound Errors

strict sleets, first ferception, knife light

1. Distance? Nearby - adjacent words

2. Position? Similar position in word

3. Similarity? (phon vs. semantic)

tend to occur between words with some phonological similarity,
semantic similarity not relevant, grammatical class not relevant

Properties of Word Exchanges

check-bank, go-buy, you-her (she-you), room-chair, up-out

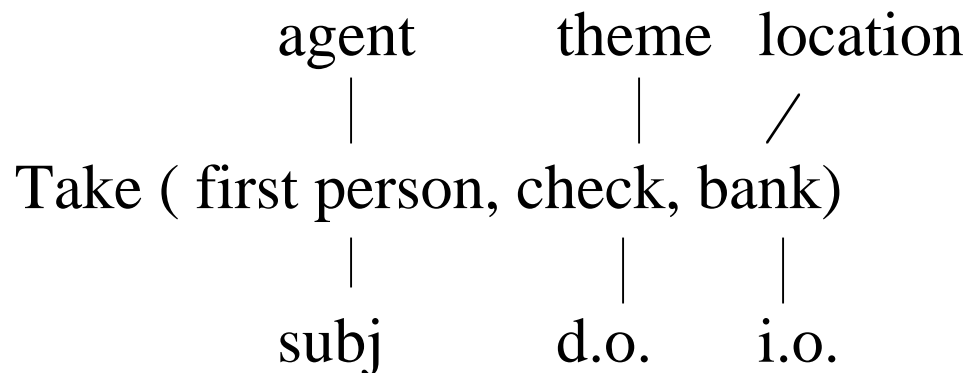
1. Distance - greater distance than sound errors, can be far apart

2. Similarity

- a. Phonological? - not evident
- b. Semantic? - some similarity or relatedness
- c. Grammatical class? - matching grammatical class

Word exchanges occur at a stage where words that end up being distant in speech are close together in mental representation -

E.g. propositional (functional) representation being planned



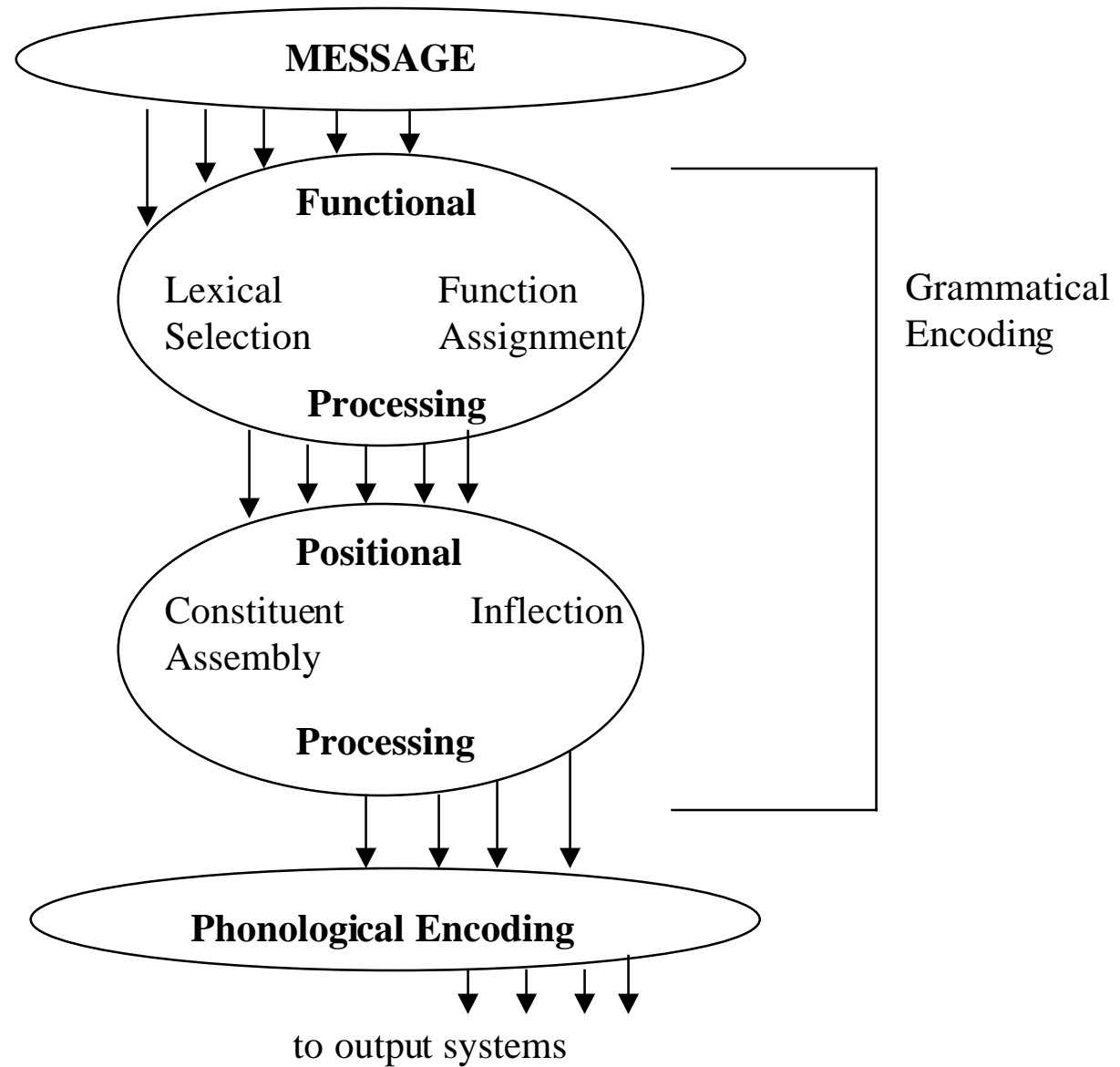
Sound not planned at this point, since sound not relevant to error

Sound Errors

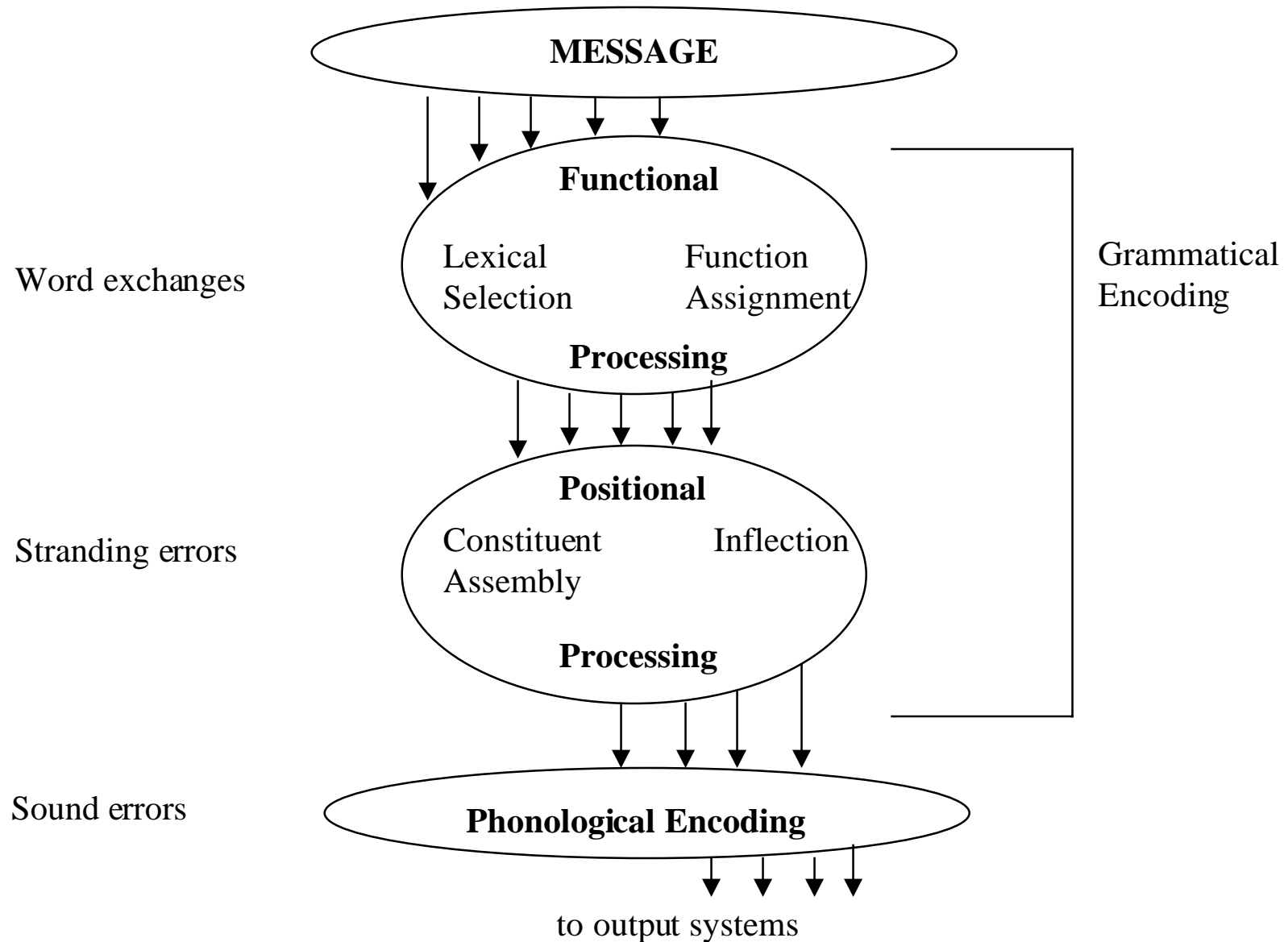
Occur later, over smaller distance

Suggest phonological planning occurs for only a few words at a time

Bock and Levelt (1994) Model of Speech Production



Bock and Levelt (1994) Model of Speech Production



Model is modular

Are there interactions between levels?

Baars, Motley, MacKay (1975)

Elicited speech errors

Condition 1

Condition 2

big Dutch

big Dutch

best doll

best doll

bill death

bill death

bark dog

bark dog

dart board

darn bore