An Integrated Approach to How Children Acquire Language

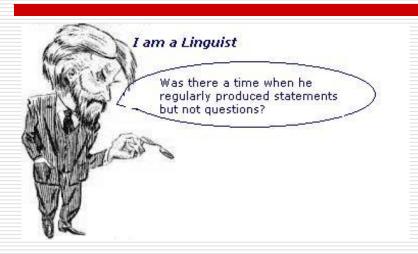
CS784 Project Presentation Srivani Narra (Y0342)

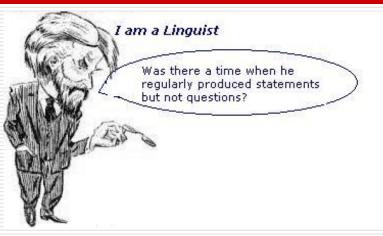
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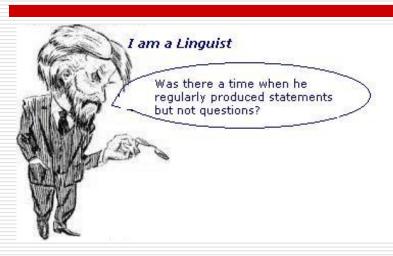
Introduction





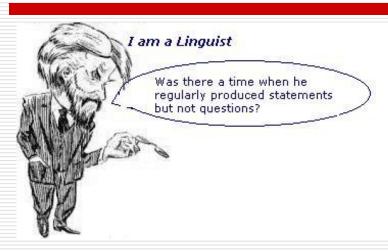






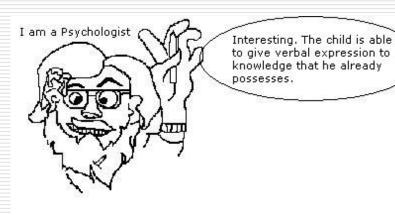


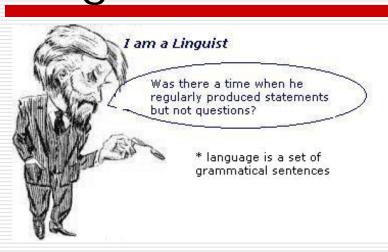






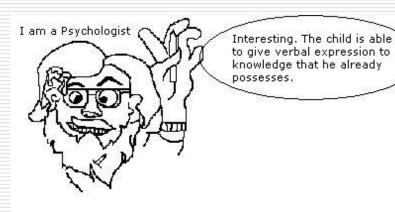


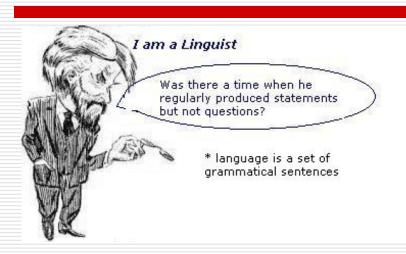








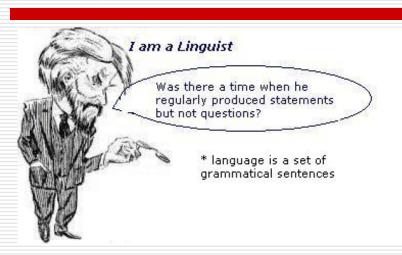


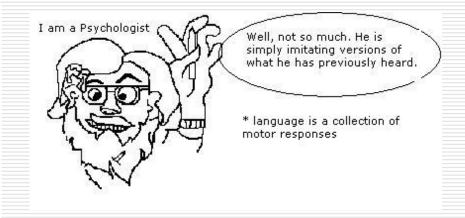






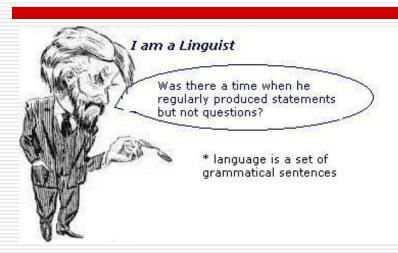


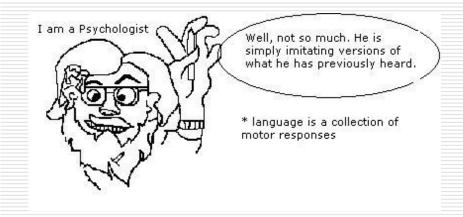




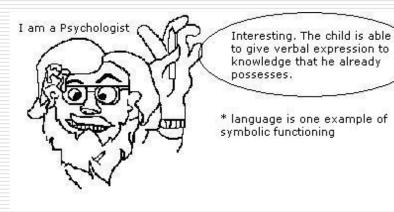


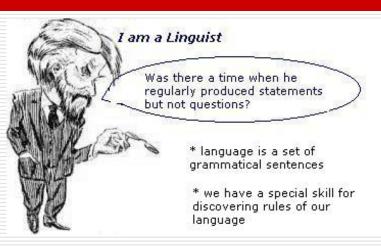


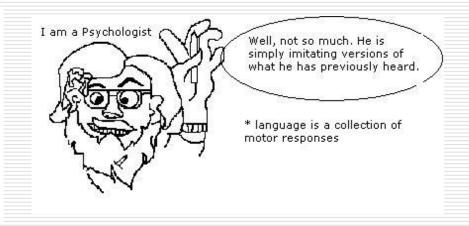




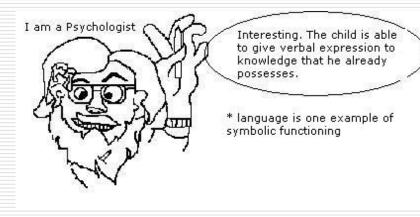


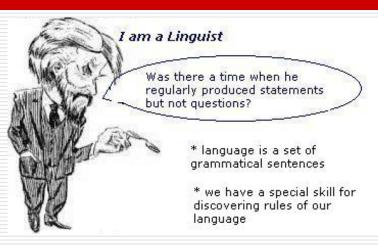






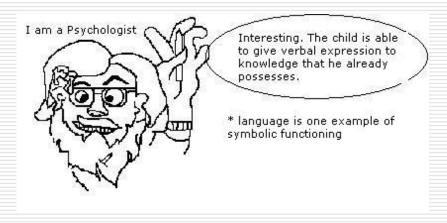


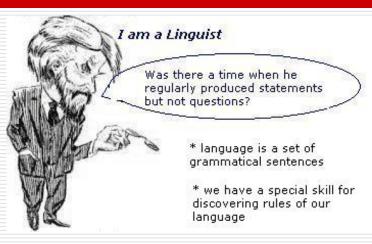


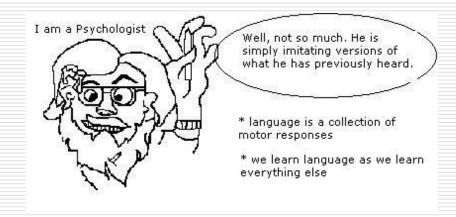




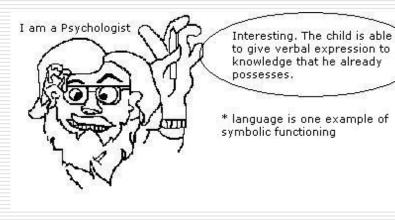


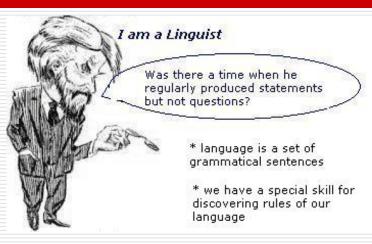


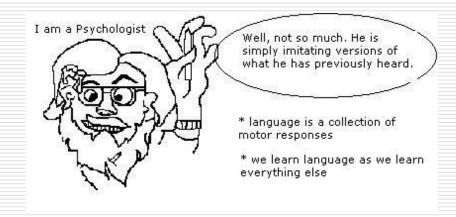




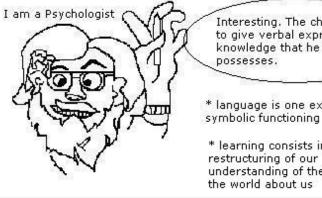










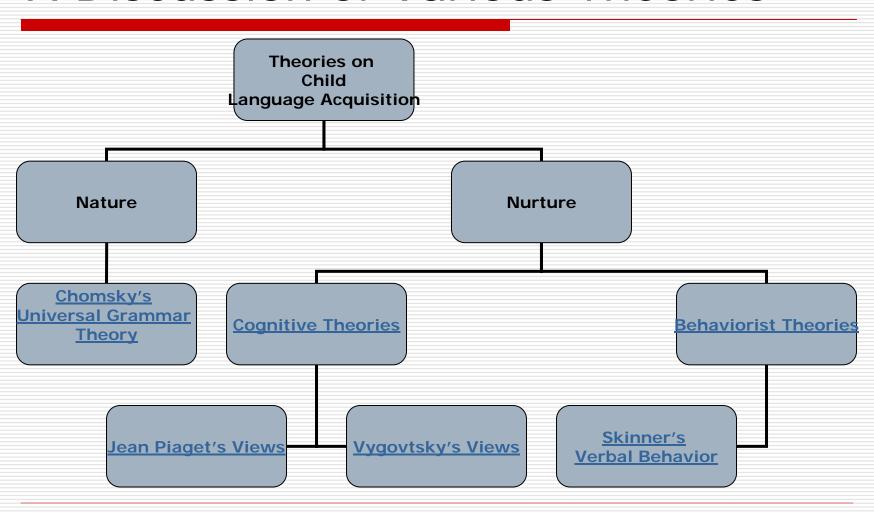


Interesting. The child is able to give verbal expression to knowledge that he already

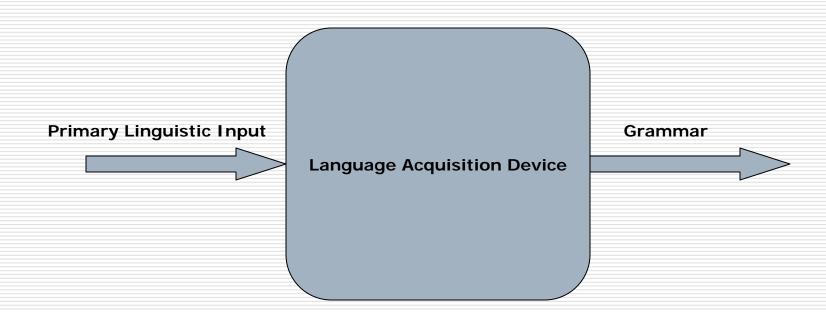
- * language is one example of
- * learning consists in a constant restructuring of our understanding of the working of

- There are many facets to the problem of language acquisition
- □ Hence, An Integrated Approach

A Discussion of Various Theories

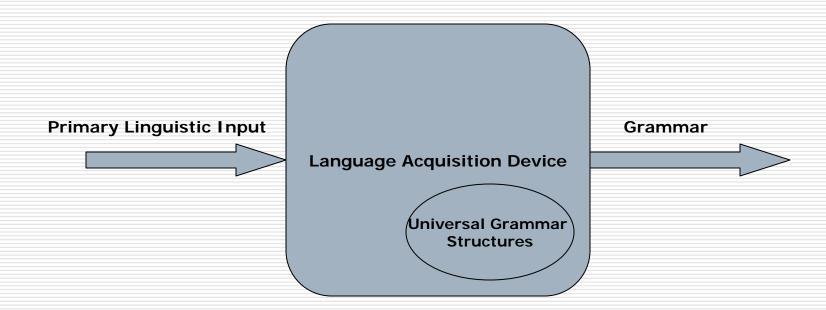


Noam Chomsky's Universal Grammar Theory



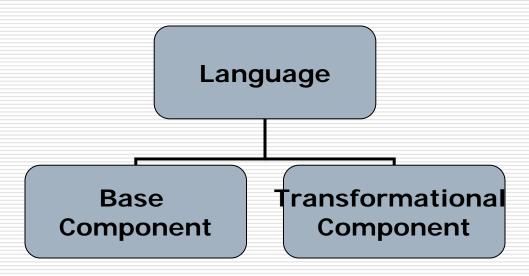
Back to Theories

Noam Chomsky's Universal Grammar Theory

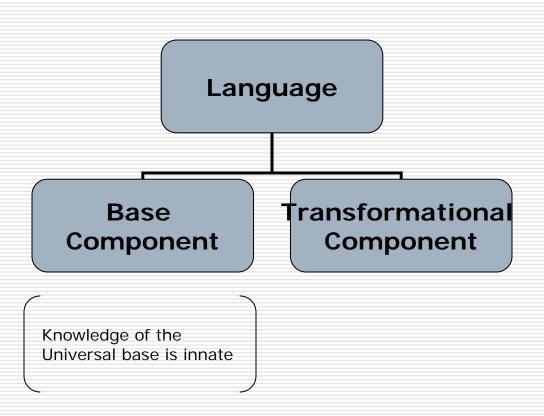


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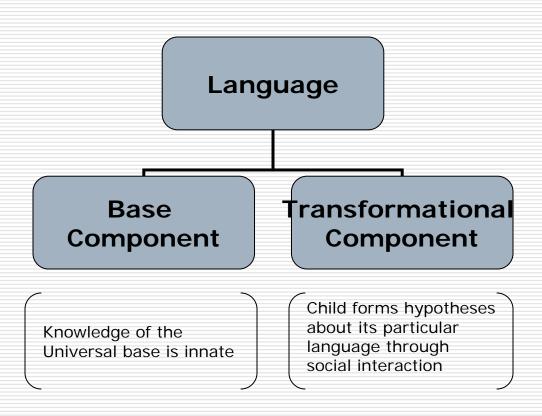


Noam Chomsky's Universal Grammar Theory



Back to Theories

Noam Chomsky's Universal Grammar Theory



Back to Theories

Nothing

Cognitive Theories

- Children can learn things when they are developmentally ready to do so.
- Learning follows development.
- Cognitive psychologists emphasized the importance of meaning, knowing and understanding.
- Learning is a meaningful process of relating new events or items to already existing cognitive concepts.

Back to Theories

"Language depends on thought for its development"

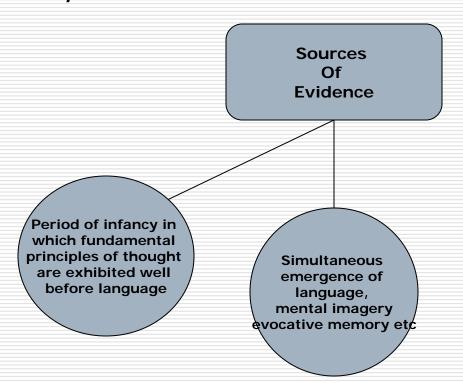
"Language depends on thought for its development"

Sources Of Evidence

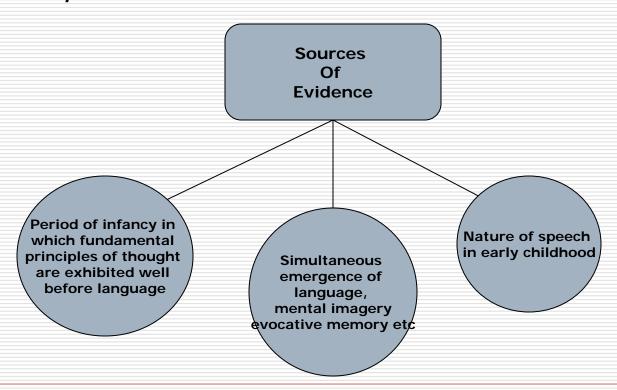
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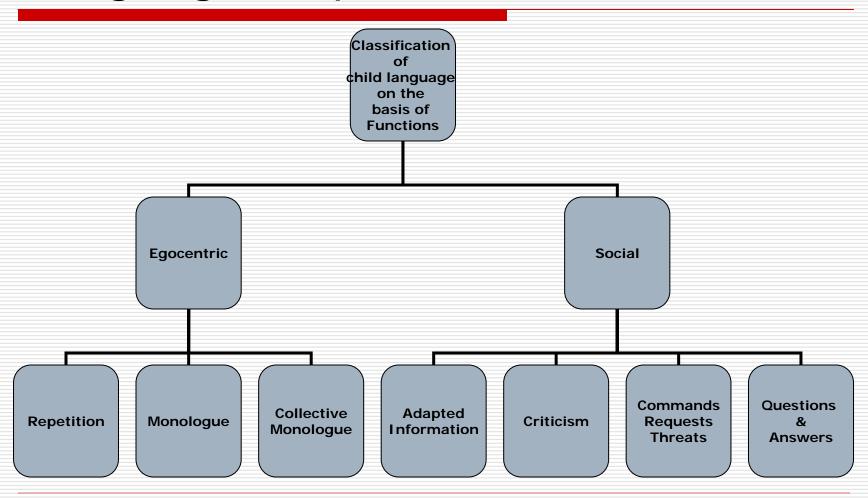
Period of infancy in which fundamental principles of thought are exhibited well before language

"Language depends on thought for its development"



"Language depends on thought for its development"





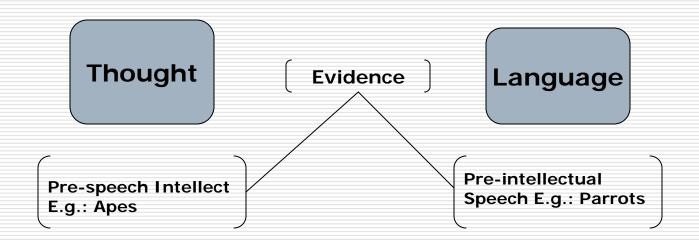
Thought

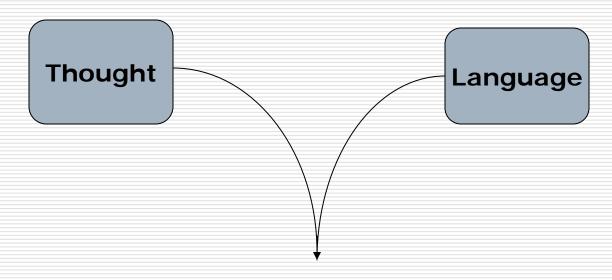
Language

Thought

They have independent origins, both ontogenetically and phylogenetically

Language





Verbal Thought
'speech begins to serve intellect
and thoughts begin to be spoken'

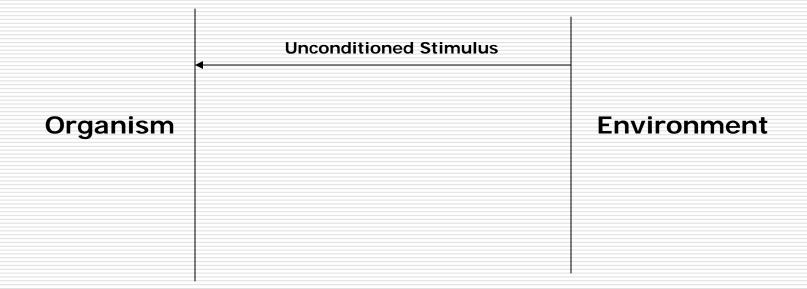
Behaviorist Theories

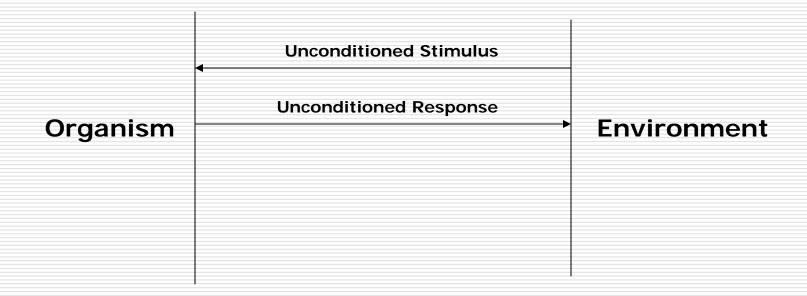
"Language development is the result of a set of habits, conditioned by interaction with the environment"

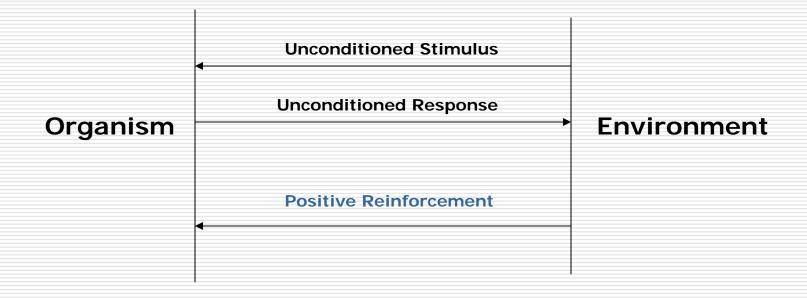
Skinner's Verbal Behavior

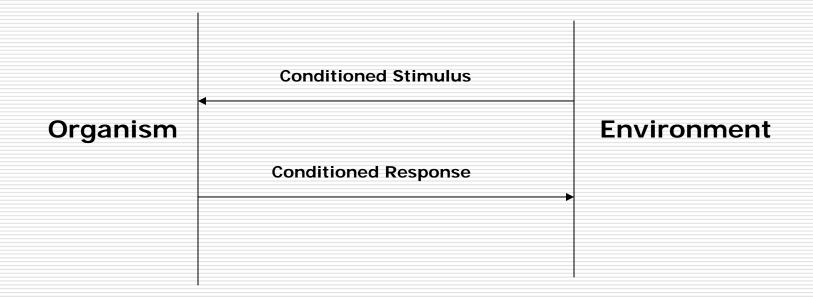
Organism

Environment





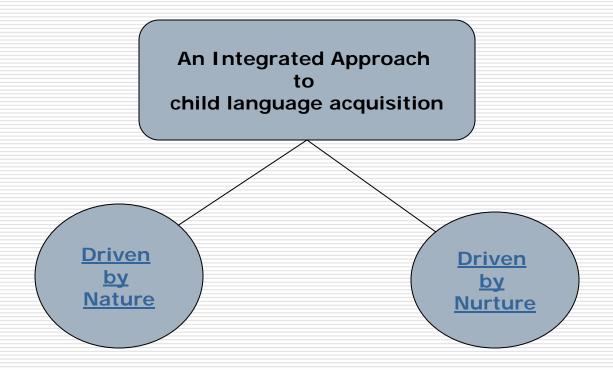




Drawbacks

THEORIES	DRAWBACKS
Innate Theories	1) They do not have empirical evidence.2) They leave out details on how the specifics of a particular language are acquired.3) They are not very clear on the exact innate nature of acquisition.
Cognitive Theories	The clinical method adopted by the cognitive experimentalist in language studies are severely criticized by later scholars.
Behaviorist Theories	why is it that animals do not and cannot learn to speak while humans do?

An Integrated Approach



- The first one year in a child's life is mainly driven by nature.
- A set of observations made by Hippolyte Taine on her baby daughter are in order.

Age	Observations	Inference
First few weeks	action, she cried incessantly and kicked	In my opinion it is out of this enormous number of movements that there will be evolved by gradual selection the intentional movement. The same is true for vocal actions.

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Three to five months	"She began to feel with her hands and to stretch out her arms. Takes delight in its bird like twitter."	I believe, a child does this for the mere pleasure of discovery.

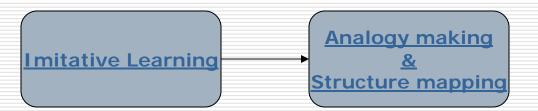
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Three to five months	"She began to feel with her hands and to stretch out her arms. Takes delight in its bird like twitter."	I believe, a child does this for the mere pleasure of discovery.
Fifth or Sixth month onwards	whole time for two	It is pure curiosity. And I propose that it is this same curiosity that drives a child to make vocal experiments with sounds and exclamations.

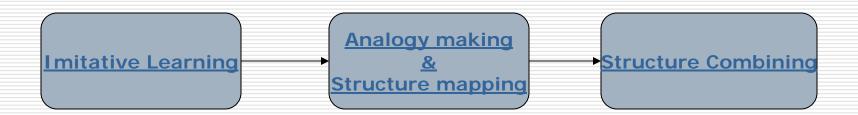
Age	Observations	Inference
Eleven months onwards	"When asked where is mamma? She turns towards her mother."	She has learned to make simple associations.

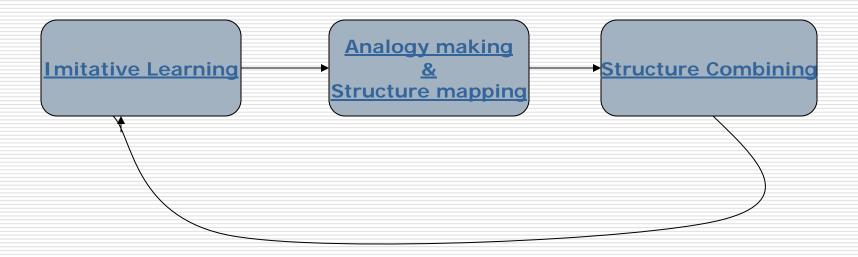
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Eleven months onwards	"When asked where is mamma? She turns towards her mother."	She has learned to make simple associations.
Thirteen months onwards	places left by the watering pot on the	As various concepts begin to take shape in a child's mind as part of its general cognitive functioning, it makes generalizations suited to its own mental state.

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Thirteen months onwards	places left by the watering pot on the	As various concepts begin to take shape in a child's mind as part of its general cognitive functioning, it makes generalizations suited to its own mental state.
Eighteen months onwards	<u>o</u>	The initial phase of producing sounds for the mere pleasure of discovery has subsided.

Imitative Learning







Imitative Learning

- From the age of 2-3, children attempt to understand and reproduce virtually all of the activities they see in the cultural environment around them
- Communicative Intentions
- However, imitative learning cannot be the whole story

Analogy making and Structure Mapping

Children, very naturally, discerns similarities and dissimilarities among the various the constructs

Children are not just combining words or isolated linguistic categories, they are combining pre-compiled linguistic constructions

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> See Maria See Daddy See this

See _____

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See Maria
See Daddy
See this

See _____

Daddy's _

Daddy's Bread Daddy's ball Daddy's Salad

Children are not just combining words or isolated linguistic categories, they are combining pre-compiled linguistic constructions

> See Maria See Daddy See this See

> > "See Daddy's car"

Daddy's ____

Daddy's Bread Daddy's ball Daddy's Salad

Conclusions

- There are many facets to the problem of Child Language Acquisition and, hence, an integrated approach is required.
- It is erroneous to reduce child communicative systems to adult models.

