

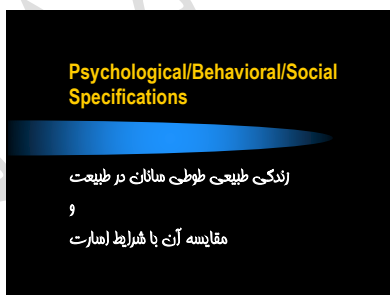
Slide ۱



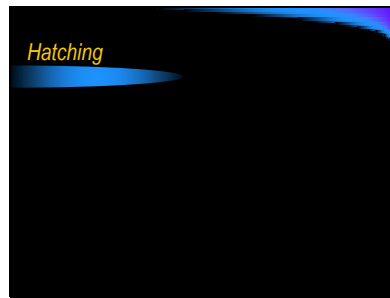
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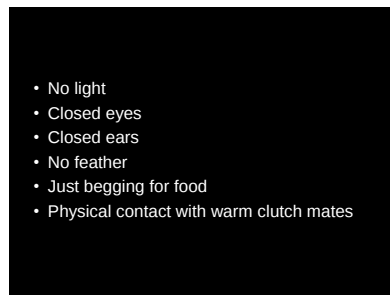
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Slide ۴



Slide ۵



Slide ۶



Slide ۷

Growing & adulthood

- Independent life after Ws or Ms even Ys
- Flock life activity
- Foraging
- Playing with other birds



Slide ۸

Mate choosing & Pair bonding

- Completely facultative
- Lifelong
- Mating & reproducing
- Nest defending
- Chick care



Slide ۹

In captivity

- Bc
- Nc
- Hu
- Ma



Slide ۱۰

Avian Intelligence: The importance?

- PERCEPTION –BIRD BRAIN?
- INFORMATION TO OWNER
- TREATMENT SUCCESS
- BEHAVIOR MODIFICATION

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The bird intelligence!!!!

- Dr. Irene Pepperberg
- Alex the African Grey
- STUDY:
 - INTERSPECIES COMMUNICATION
 - AVIAN INTELLIGENCE
- STARTED JUNE, 1977
- Alex – 13 MONTHS OLD



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The Results of Pepperberg's studies

Alex LEARNED

- LABELS FOR MORE THAN 35 DIFFERENT OBJECTS
- FUNCTIONAL USE OF "NO"
- & PHRASES
 - COME HERE
 - I WANT...



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& More Surprising!!!!!!!!!!!!!!

- ACQUIRED LABELS FOR 7 COLORS
- IDENTIFIES 5 DIFFERENT SHAPES
- DISTINGUISHES QUANTITIES OF OBJECTS UP TO 6



Slide ۱۴

That is impossible!!!!!!!!!!!!!!

- Alex COMBINES HIS VOCAL "LABELS" TO
 - REQUEST
 - REFUSE
 - CATEGORIZE
 - QUANTIFY MORE THAN 100 DIFFERENT OBJECTS
 - ACCURACY OF ABOUT 80%!!!!!!!!!!!!!!



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In Conclusion:

- Intelligence Quality $\approx$ 2-4 Year-old Human
- Emotional Status $\approx$ 4-7 Year-old human
- Can perform Complex Cognitive Task
- Can Learn and can teach!
- Can speak! Not just mimic a sound!
- Can love! Can hate!

[A Smart Bird Uses Bait \(TA\).flv](#)

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Husbandry

- Housing: Cage quality and size
- Cage location in the house
- Perch: quality and size
- Light (Sleeping time)
- Fresh Air/Humidity
- Sunlight
- Bath

Slide ۱۷

Mismanagement

- Free home foraging
- Cigarette (nicotine)
- Kitchen fumes exposure
- Ornamental apartment plants
- Too hot/Too cold climate



Slide ۱۸

Furnitures

- Environmental enrichment
- Climbing
- Chew
- Foot
- Puzzle



Slide ۱۹



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