Palpation Acquisition

Developing a Feedback and Validation Model





Jane Stark - D.O.M.P. - Canada

Outline - Palpation Acquisition

- 1. Problem
- 2. Consequences
- 3. Solution(s)







1. Problem - Validation

- 1. Ourselves
- 2. Our students
- 3. Our research



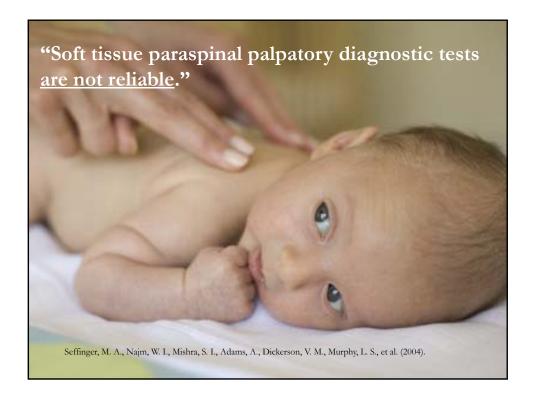




2. Consequences

- Students
- Our profession
- Health professions
- Patients





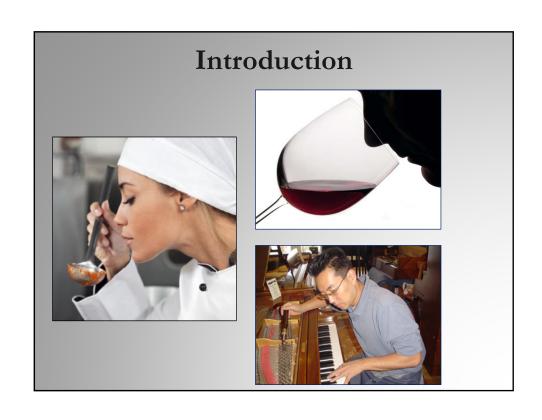
Dig On

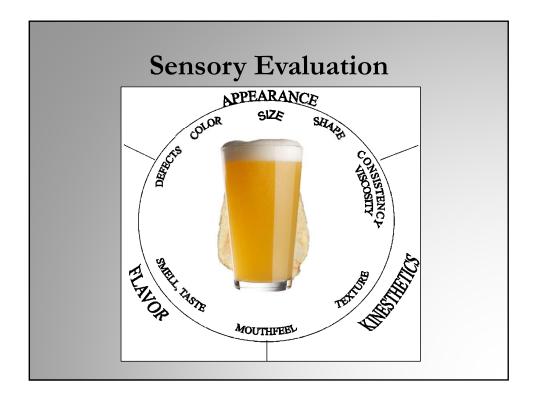
- ✓ Teaching Method
- ✓ Learning System
- ✓ Testing

3. Solution **CATEGORIZATION** - reward mediated feedback trials

Tools

Validation





Sensory Evaluation - supported by:

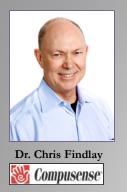
Sensory Science

The practical application of psychophysics to the sensory evaluation of food, beverage and consumer products.

Psychophysics

The scientific study of the relationship between sensory stimuli and animal/human response

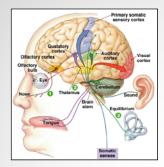
Sensory Science



"The principles and practices of sensory science apply equally to all senses."

Somatic Senses

- Somesthesis
- Kinesthesis

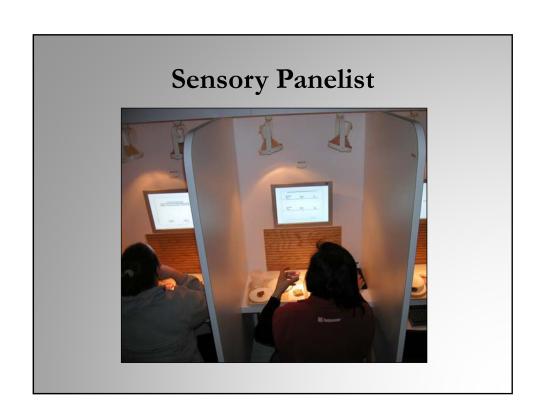


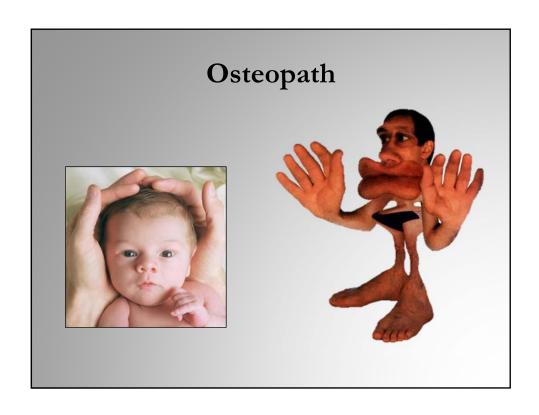
Psychophysics - -> Categorization Categorization - "is any systematic differential interaction between an autonomous, adaptive sensorimotor system and its world." To Cognize is to Categorize: Cognition is Categorization http://users.ecs.soton.ac.uk/harnad/Temp/catconf.html

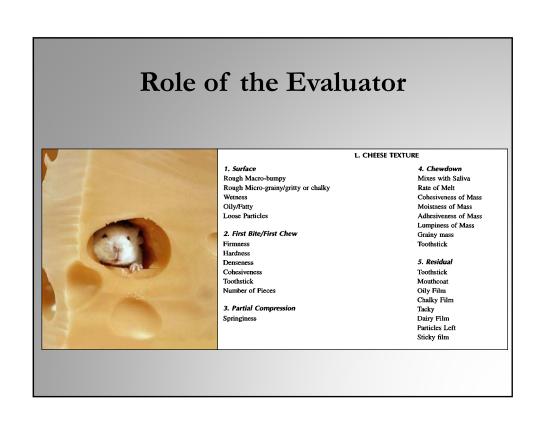
Categorization

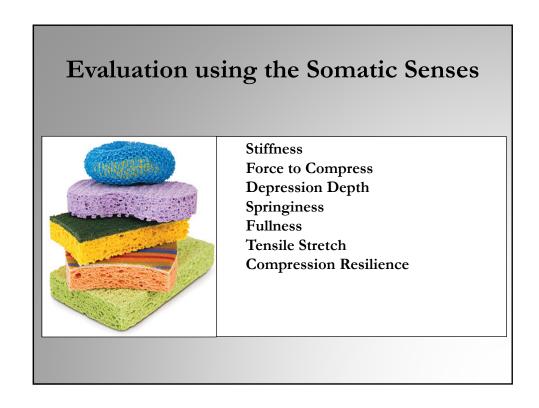
Feedback is the preferred method for training sensory panelists.













Learning to Categorize

Dual System

- 1. Explicit Logical Reasoning (ELR)
- 2. Procedural Learning (PL)



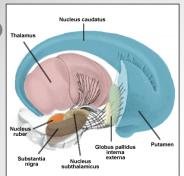
Dr. Gregory Ashby

Ashby, F. Gregory; Ennis, John M.; Spiering, Brian J. (2007)

Dual System

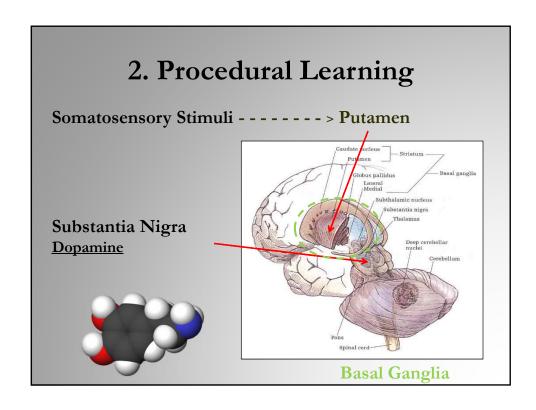
- 1. Explicit Logical Reasoning (ELR)
 - **Cortical Direct**
- 2. Procedural Learning (PL) Sub-Cortical via the

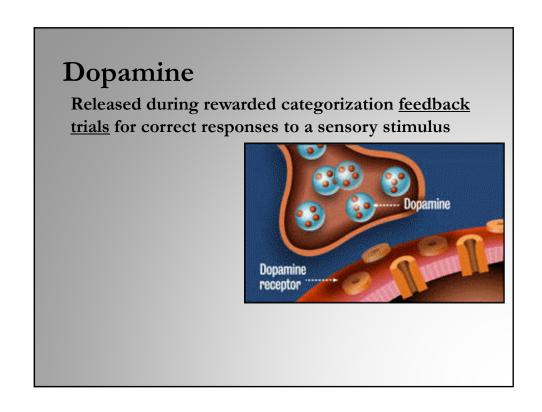
Sub-Cortical via the Basal Ganglia

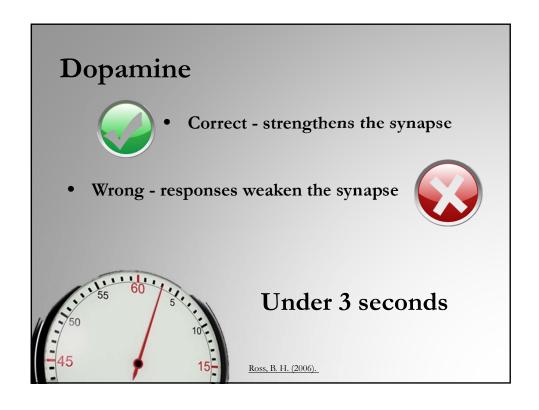


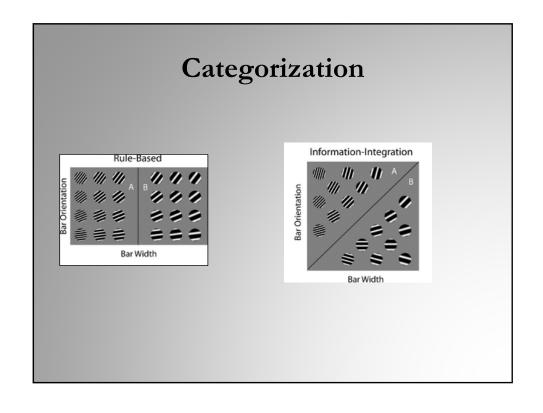
Ashby, G., F, & Casale, M. B. (2003).

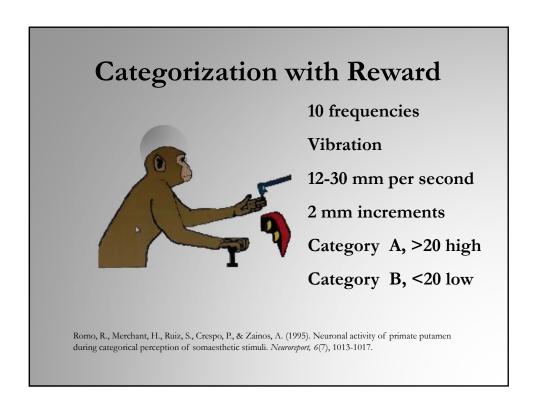
Basal Ganglia

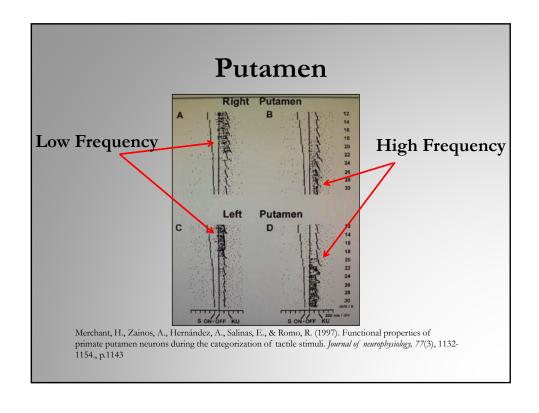


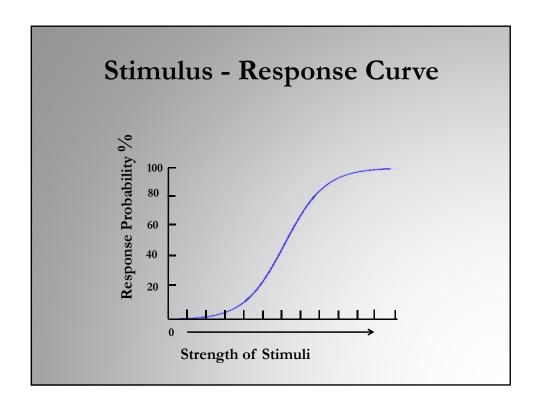


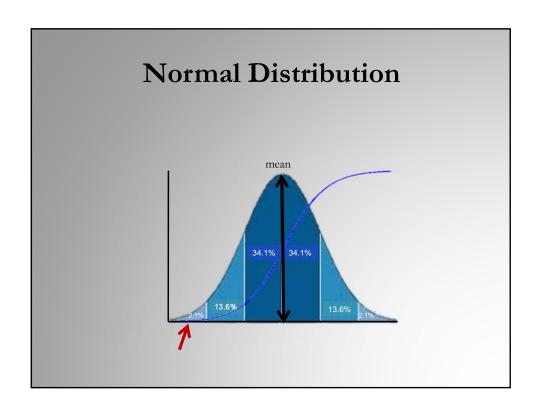


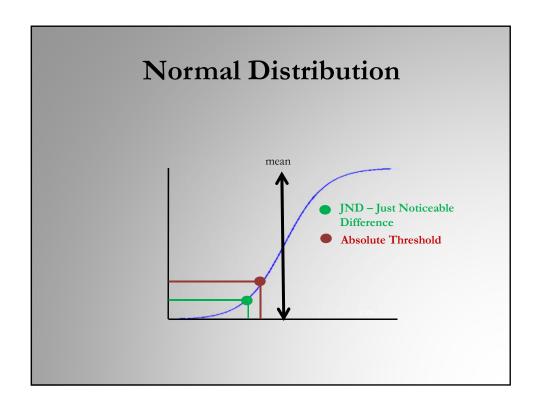


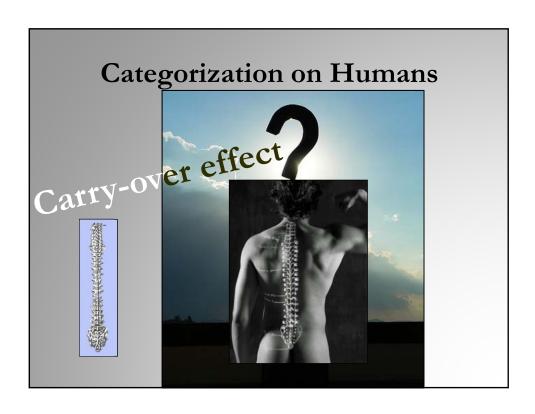












Humans

Position - **symmetry**, evenness

Dimension - size, weight

Surface attributes – dryness, oiliness,

Temperature - Heat

Consistency – Density, Texture, Lumpiness, Fibrosity, etc...

Pressure - Air, Fascial

Volume – Fluid, flow, change in volume

Motion -

- Velocity linear, angular
- Acceleration/Deceleration
- Vibration/Oscillation
- Rhythmicity

Current

Electromagnetism

Vitality :

Other

Palpation - Symmetry Indicate the second of the second of



