USING RECENT DEVELOPMENTS IN RELATIONAL FRAME THEORY TO INCREASE ITS UTILITY IN APPLIED BEHAVIOUR ANALYSES OF HUMAN LANGUAGE AND COGNITION

DERMOT BARNES-HOLMES, COLIN HARTE, JOÃO H. DE ALMEIDA & CAROLINA SILVEIRA

THE PSYCHOLOGICAL SOCIETY OF IRELAND'S DIVISION OF BEHAVIOUR ANALYSIS, 16th SEPTEMBER 2021













Dermot Barnes-Holmes



Colin Harte



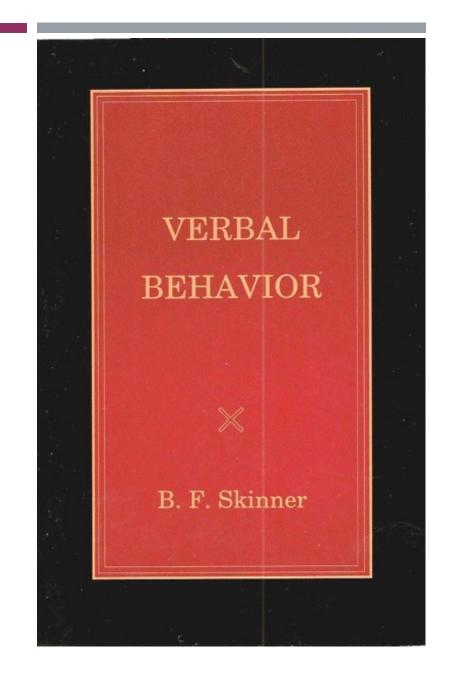
Joao H. de Almeida



Carolina Silveira

WHAT IS RFT? A BRIEF HISTORY

- First major behaviour analytic treatise on human language
 - Largely a work of interpretation
 - Limited basic research but influential in remediating language deficits
 - Examples of derived relations appear but constrained by methodology and empirical work at that time



A DECADE LATER...

- Skinner proposes the concept of rule-governed behavior
 - Rule-governed behavior distinguished from direct control by contingencies
 - Rules specify contingencies, which circumvents the need to contact contingencies directly
 - Produces many basic research studies, particularly related to "schedule insensitivity effects" in verbal humans

THE REMAYIONAL AND REMAIN SCIENCES COME TO MAKE

An operant analysis of problem solving

f. Skinner

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A DECADE LATER...

Skinner proposes the concept of rule-governed behavior

- Also many studies on the impact of rules per se (e.g., rules that specify the contingencies versus performance)
- Recognized that rule-governed behavior may be beneficial in problem solving but may come at a cost
- Also, some researchers asked how do rules specify contingencies?

THE REMAYTORAL AND BUILD SCIENCES COME C MAKES

An operant analysis of problem solving

B. F. Skinner

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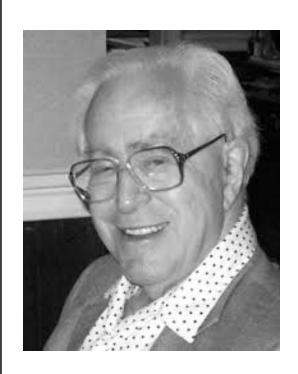
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FIVE YEARS LATER...





Sidman offers an answer...

- Equivalence relations provide a functional-analytic definition of symbolic relations (i.e., specification)
- The importance of Sidman's discovery is recognized immediately, but the conceptual implications emerge gradually through the 1970's, culminating in the 1982 "primates fail symmetry tests" JEAB article
- A series of written exchanges between Sidman and Willard Day reveal that the idea of equivalence relations as symbolic relations was controversial...

DURING THE MID 80S

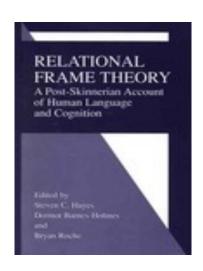


RULE-**GOVERNED BEHAVIOR** COGNITION, CONTINGENCIES, AND INSTRUCTIONAL CONTROL Edited By Steven C. Hayes

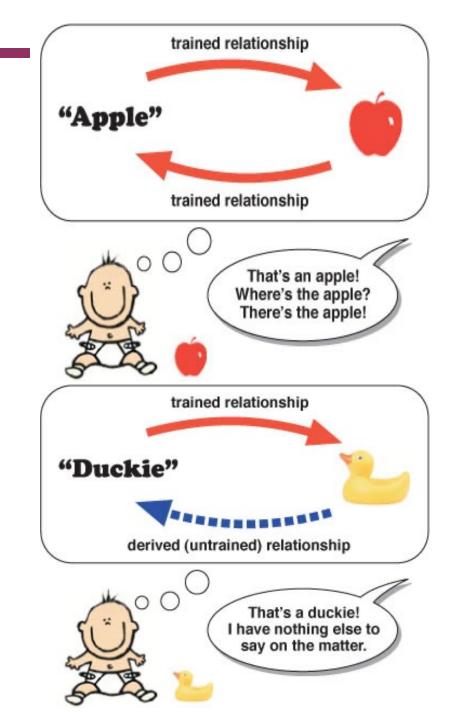
Hayes argued that equivalence is a generalized relational operant

- These operants are typically established through natural language interactions
- Many such operants or "relational frames" are possible
- Relational frames combine into networks of relations to form rules or instructions
- Basic account presented across two chapters in 1989 book on Rule-Governed Behavior...

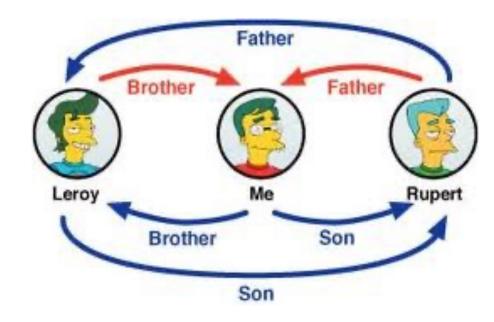
 RFT presented as a behaviour-analytic account of human language and cognition (not just rules)



- Core operant process is named arbitrarily applicable relational responding (AARR)
- AARR as a generalized operant is learned and consists of mutually entailed relations...

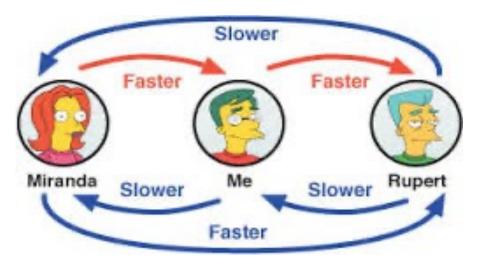


 RFT presented as a behaviour-analytic account of human language and cognition (not just rules)

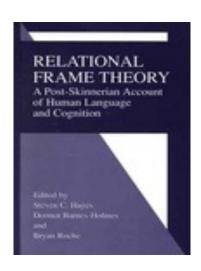




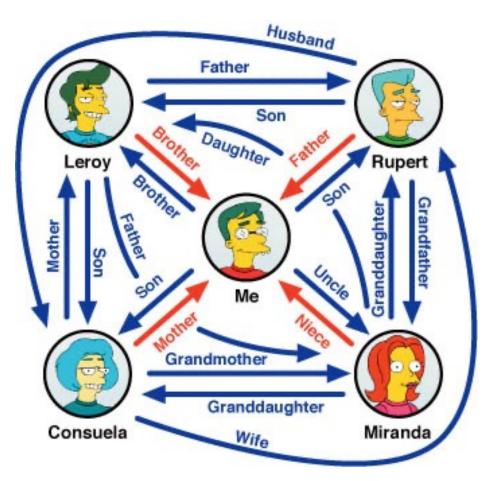
- Core operant process is named arbitrarily applicable relational responding (AARR)
- AARR as a generalized operant is learned and consists of relational frames...



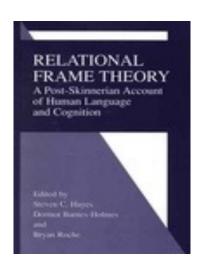
 RFT presented as a behaviour-analytic account of human language and cognition (not just rules)



- Core operant process is named arbitrarily applicable relational responding (AARR)
- AARR as a generalized operant is learned and consists of (complex) relational networks...

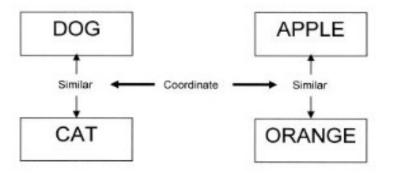


 RFT presented as a behaviour-analytic account of human language and cognition (not just rules)

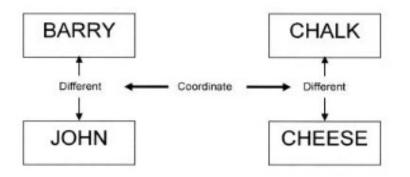


- Core operant process is named arbitrarily applicable relational responding (AARR)
- AARR as a generalized operant is learned and consists of relating relations...

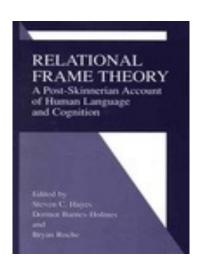
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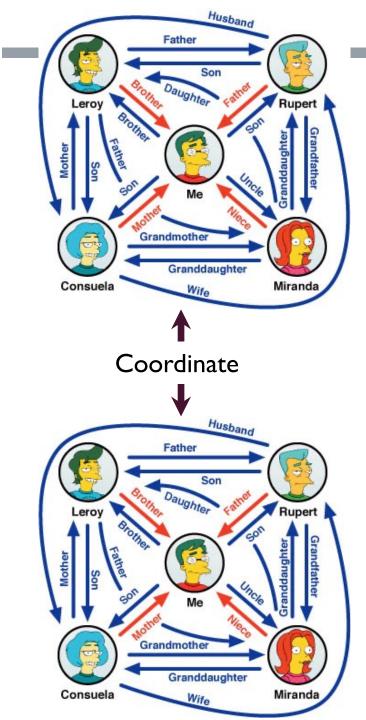
Different - Different



 RFT presented as a behaviour-analytic account of human language and cognition (not just rules)



- Core operant process is named arbitrarily applicable relational responding (AARR)
- AARR as a generalized operant is learned and consists of relating relational networks...



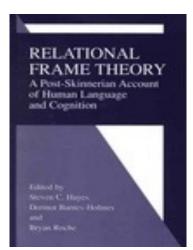
A Hierarchical Network of Relational Networks



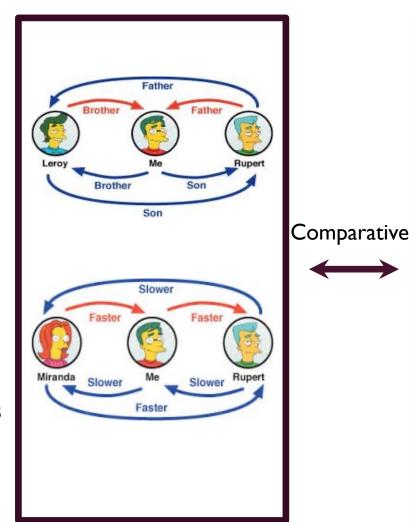
Large Networks

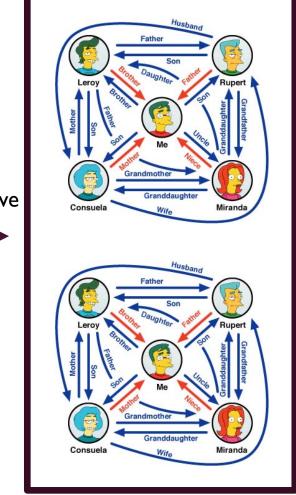
RFT BOOK IN 2001...

 RFT presented as a behaviouranalytic account of human language and cognition (not just rules)



- Core operant process is named arbitrarily applicable relational responding (AARR)
- AARR as a generalized operant is learned and consists of relating relational networks of increasing complexity...





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Empirical Research

From the IRAP and REC model to a multi-dimensional multi-level framework for analyzing the dynamics of arbitrarily applicable relational responding[±]



Dermot Barnes-Holmes*., Yvonne Barnes-Holmes*, Carmen Luciano*, Ciara McEnteggart*

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ARTICLE INFO

Keywords: Relational facus theory

Multi-dimensional

Dynamic

Arhitertly applicable wistown reponding

ABSTRACT

The article persects the beginnings of a conceptual framework for analyzing the dynamics of articlery applicable in distinct of expending (AARRing). The framework for are on the dimensions and levels of AARRing that have been the focus of empirical and conceptual analyses in the literature on relational frame theory over the past 30 years. The name of the Framework is abbreviated the MDM, and the encouptual and empirical context from which is energed in posteroid. The framework currently conducted from dimensions, (0) coherence, (0) contents, (0) coherence, (0) contents, (0) coherence, (0) contents of the distribution of the MDML are considered, forcing in particular on how consents in ordational framework properties of AARRing, Specific examples of how the MDML is (and may) impact up on research in ordational framework benearch in ordational framework benearch in contained in the distribution of the distribution of the MDML is (and may) impact up on research in ordational frame the benearch in contained in the benearch of the distribution of the dis

A brief outline of the multi-dimensional multi-level from ework for analyzing the dynamics of arbitrarily applicable relational responding (AARRing) was provided in a regent chapter, which functioned as an introduction to a section on relational frame theory (RPT) in the Wiley Hardbook of Contestual Behavioral Science (Barnes-Holmes, Barnes-Holmer, Hussey, & Luciano, 2016). In that chapter, we argued that the proposed framework would provide a context for analyzing the dynamics of AARRing by conceptualizing such behavior in terms of multiple dimensions and multiple levels, and abbreviated the name of the framework, the MDML. The key parnous of the current article is to present a more detailed or elaborate view of the MDM1 than was presented in the chapter of the recent handbook. In so doing, it should be clear that we are not seeking to replace RFT with something fundsmentally new or different. Buther, we hope to focus on and extend those features of the original theory that appear to us to be the most important at the current time, but perhaps have remained somewhat undentiated in much of the early work on RFT. What we present here,

therefore, is not an alternative to SET as presented in the sentinal volume (Thyses, Barnes-Holmer, B.Soche, 2001), but an exercise in focacing on those features of the theory that seem to us to be most in need of emphasis as we move forward with the retiralisting model of basic and applied attence that serves to characterize contestinal behavioral attence treef (see Hayes, Somes-Holmes et al., 2012).

1. What is the MDML and what does it offer?

At this point in an earlier version of the current paper we first presented the historical background to the MDML before describing the form words total and explaining why we think it may be a useful tool within contextual behavioral actions and perhaps beyond. Dating the notion patient, however, it became clear that it was important to begin with a bacic cuttine of the MDML and to periods at least one or two examples of the most vation behind its development. Adopting this trategy requires that the mader who is unfamiliar with the MDML.

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A FRAMEWORK FOR RFT

- 2017 and beyond: A multi-dimensional, multi-level (MDML) framework for analysing the dynamics of AARR
 - On balance, the domain of human language and cognition is far from simple and behavior analysts have been grappling with it since the 1950s
 - A single overarching framework that summarizes how RFT is approaching the experimental analysis of human language and cognition reveals the challenge we face...

^{*} Author' Non-This attilewas prepared with the support of an Odysseus Group 1 grant availability to find author by the Planders Science Poundation (WO) and partly funded by PS (2014-996) (Ministerio Riccomit y Conspectation) to the first author. Correspondence concerning this article decall be sent to Democritative Hidmany) specifies.

Correspondence to Department of Reperimental, Clinical, and Health Psychology, Glant University, Heart Danaschen 2, 8-9000 Glant, Religions.
 Renal Address: Dermot Stome Holine algrapers in (D. Sarmer-Holines).

^{*} As explained in greener detail later in the paper, the nerve "dynamics" select to the segs in which the units of analysis, created by the intresections between the levels and dissensions asserted within the MOME. Introduce with each other.

THE MULTI-DIMENSIONAL, MULTI-LEVEL (MDML) FRAMEWORK

Levels	Dimensions				
	Coherence	Complexity	Derivation	Flexibility	
Mutual Entailing	Coh/Mut-Ent	Cpx/Mut-Ent	Dev/Mut-Ent	Flx/Mut-Ent	
Relational Framing	Coh/Frame	Cpx/Frame	Dev/Frame	Flx/Frame	
Relational Networking	Coh/Net	Cpx/Net	Dev/Net	Flx/Net	
Relating Relations	Coh/Rel-Rel	Cpx/Rel-Rel	Dev/Rel-Rel	Flx/Rel-Rel	
Relating Relational Networks	Coh/Rel-Net	Cpx/Rel-Net	Dev/Rel-Net	Flx/Rel-Net	

COHERENCE

- Coherence refers to the extent to which a pattern of derived relational responding coheres with previously established patterns of such responding.
 - For example, if an individual is told that stimulus A is larger than B, and is subsequently told that stimulus B is smaller than A, the latter statement would likely be deemed coherent with the former.
 - In this instance, coherence would be relatively high because the overall pattern (A>B = B<A) coheres so consistently with the way in which such verbal relations have been established by the wider verbal community
 - I.e., there are few instances in which the statement, "if A is bigger than B, then B is bigger than A" would be reinforced, or not punished/corrected, by an English-speaking listener).

COMPLEXITY

- Complexity refers to the intricacy or density of a pattern of derived relational responding including differing levels of complexity in contextual control
- For example, all things being equal;
 - if A = B then B = A involves only one relation,
 - A > B then B < A involves two relations,
 - If A = B and B = A on the basis of color involves only one contextual dimension,
 - If A = B and B = A on the basis of color and shape involves two contextual dimensions,
 - If A = B and B = A on the basis of an arbitrary cue (e.g., "is a") likely involves a more extensive (complex) history than (simple) non-arbitrary contextual control; note also that arbitrary cues require low levels of (simple) orienting responses.

DERIVATION

- Derivation refers to the extent to which a particular pattern of derived relational responding has previously been emitted or "practiced."
- Within the new framework, each time a relation is derived its level of derivation reduces because it acquires its own history that extends beyond the derivation that is made from the "baseline" relation;
 - If an individual learns that A is bigger than B, and thus derives that B is smaller than A, the first time that the B<A relation is derived it is derived "directly" from the A>B "baseline" relation.
 - However, if the individual subsequently continues to respond to B as smaller than A, that relational response gradually acquires its own history that renders it less and less derived from the original baseline relation (i.e., A bigger than B).

FLEXIBILITY

- **Flexibility** refers to the extent to which a particular pattern of derived relational responding may be modified by a contextual variable.
 - E.g., when playing a game of "give me the wrong answer" tell me what 2 x 2 equals... (4) as quickly as you can?

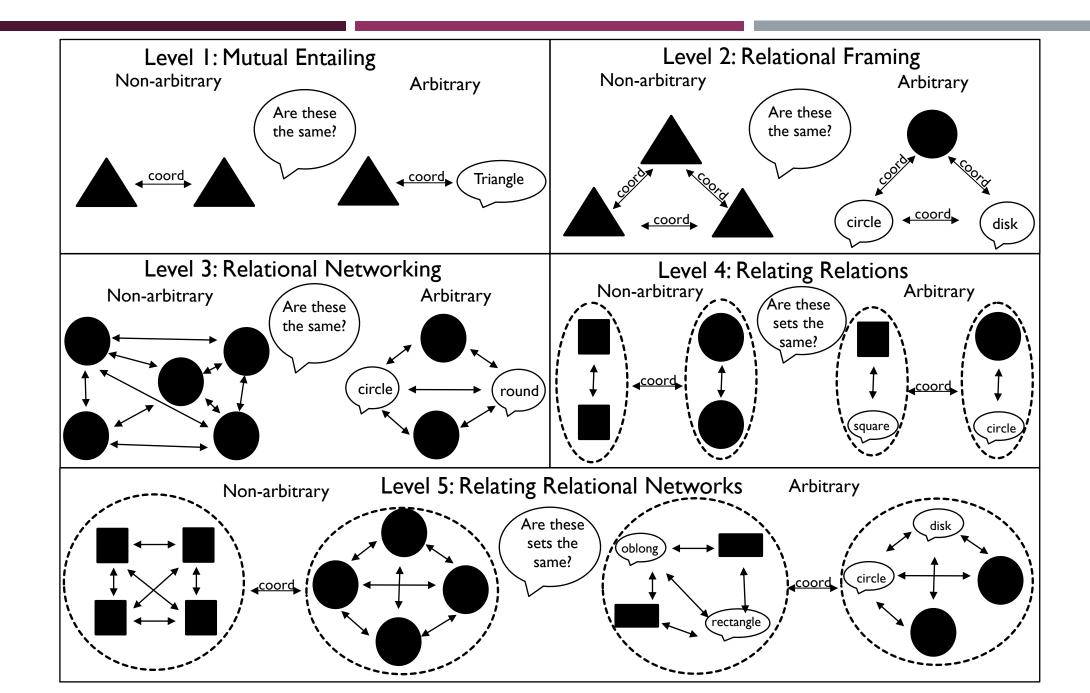
THE MDML FRAMEWORK

Levels	Dimensions				
	Coherence	Complexity	Derivation	Flexibility	
Mutual Entailing	Coh/Mut-Ent	Cpx/Mut-Ent	Dev/Mut-Ent	Flx/Mut-En	
Relational Framing	Coh/Frame	Cpx/Frame	Dev/Frame	Flx/Frame	
Relational Networking	Coh/Net	Cpx/Net	Dev/Net	Flx/Net	
Relating Relations	Coh/Rel-Rel	Cpx/Rel-Rel	Dev/Rel-Rel	Flx/Rel-Rel	
Relating Relational Networks	Coh/Rel-Net	Cpx/Rel-Net	Dev/Rel-Net	Flx/Rel-Net	

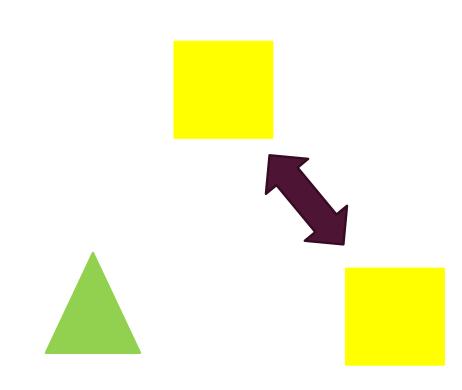
MAKING THE ABSTRACT MORE CONCRETE

PRACTICAL IMPLICATIONS FOR ABA

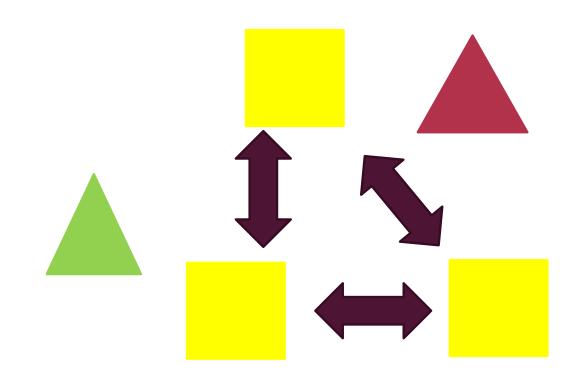
COORDINATION



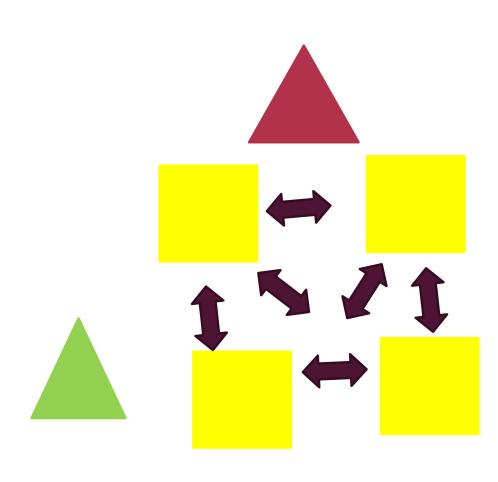
LEVEL I – COORDINATION (NON ARBITRARY RELATIONS)



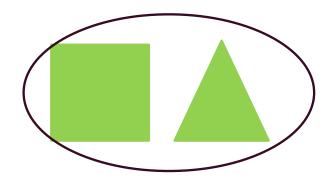
LEVEL 2 – COORDINATION (NON ARBITRARY RELATIONS)

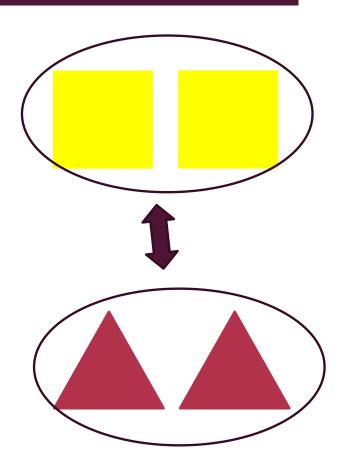


LEVEL 3 – COORDINATION (NON ARBITRARY RELATIONS)

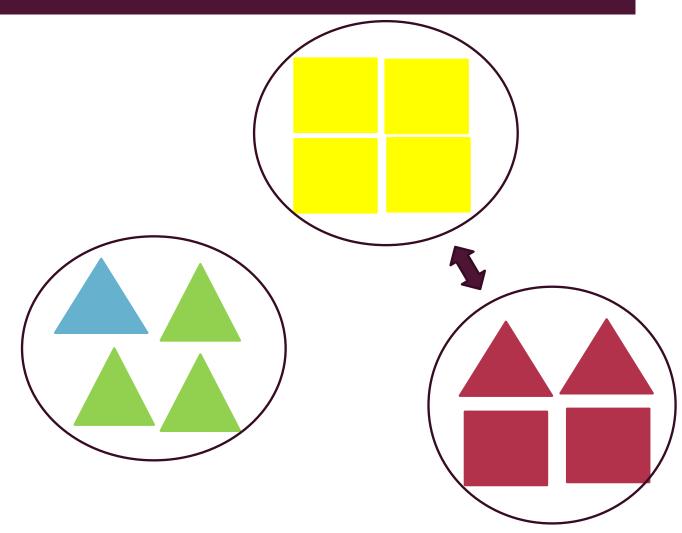


LEVEL 4 – COORDINATION (NON ARBITRARY RELATIONS)

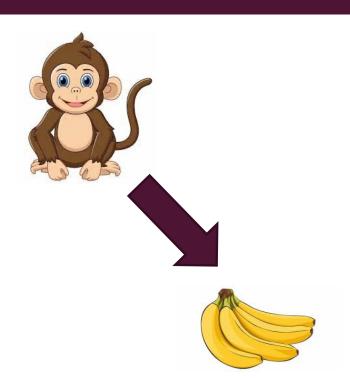




LEVEL 5 – COORDINATION (NON ARBITRARY RELATIONS)

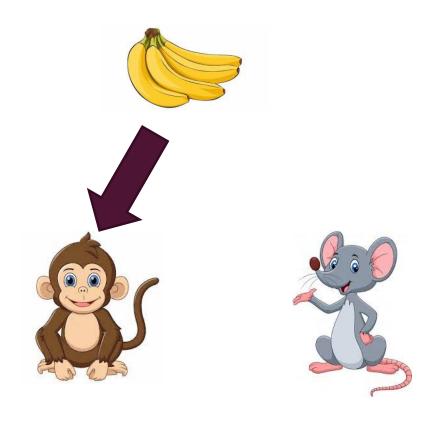


LEVEL I – COORDINATION (ARBITRARY RELATION) TRAINING AB

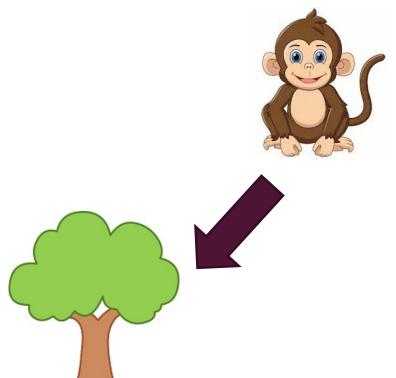




LEVEL I – COORDINATION (ARBITRARY RELATION) TESTING BA

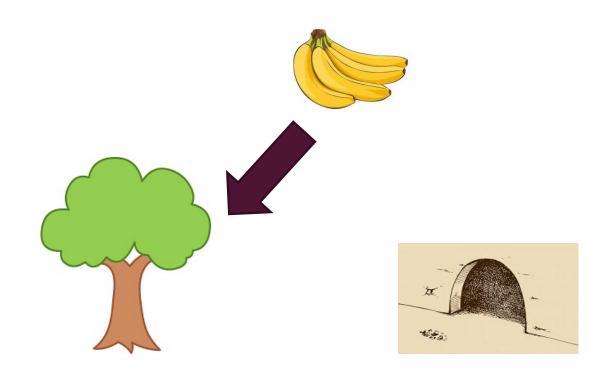


LEVEL I – COORDINATION (ARBITRARY RELATION) TRAINING AC

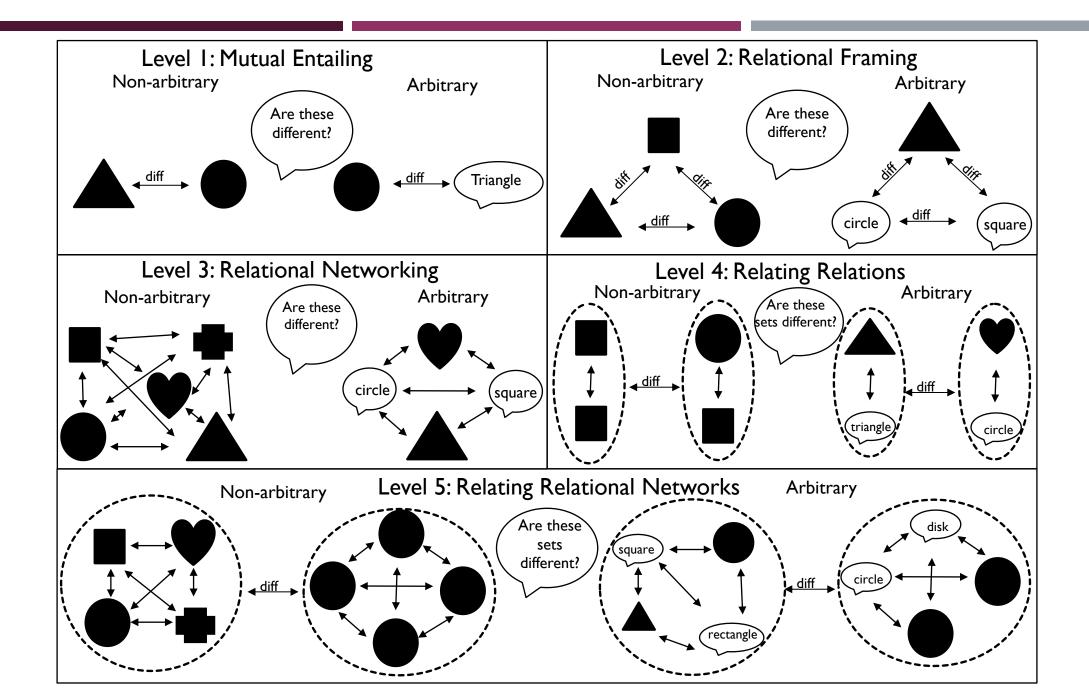




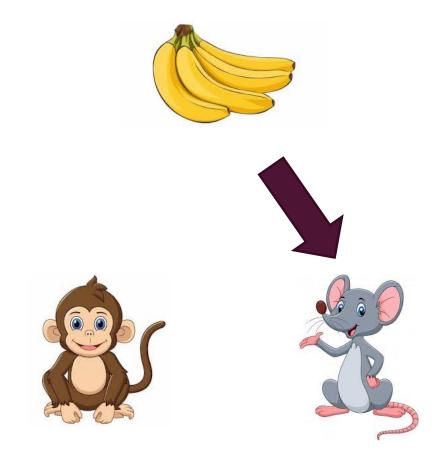
LEVEL 2 – COORDINATION (ARBITRARY RELATIONS) TESTING BC



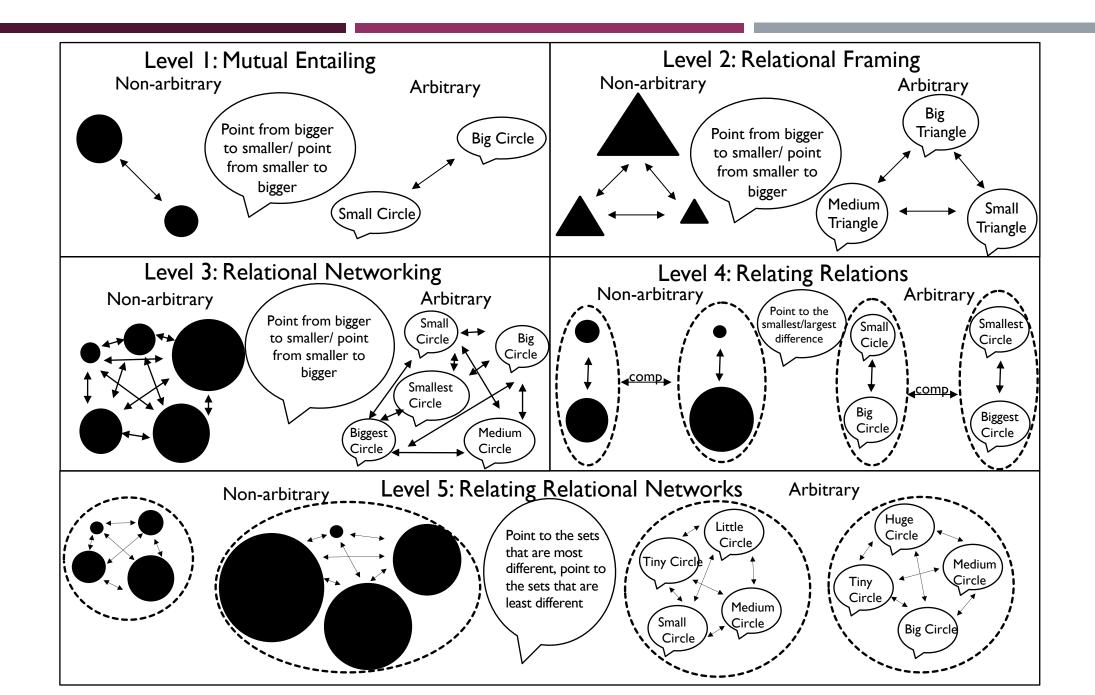
DIFFERENCE



LEVEL I – DIFFERENCE (ARBITRARY RELATIONS)



COMPARISON

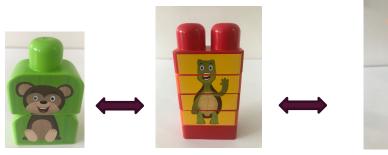


LEVEL I – COMPARISON (NON ARBITRARY RELATIONS)



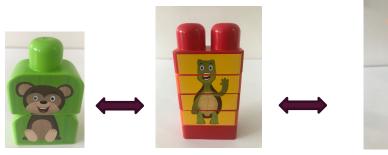


LEVEL 2 – COMPARISON (NON ARBITRARY RELATIONS)





LEVEL 2 – COMPARISON (NON ARBITRARY RELATIONS)





LEVEL 3 – COMPARISON (NON ARBITRARY RELATIONS)







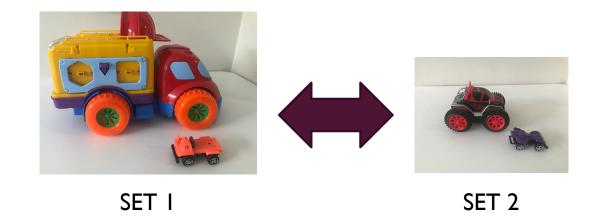
LEVEL 3 – COMPARISON (NON ARBITRARY RELATIONS)







LEVEL 4 – COMPARISON (NON ARBITRARY RELATIONS)



CASE CONCEPTUALIZATION USING THE MDML

SUMMARY

■ Luca, age eight years, has a diagnosis of autism and intellectual disability. He lives with his mother. He has been receiving in-clinic ABA services since Feb-2021, as well as speech and occupational therapy.

■The evaluations used were: VB-MAPP, some of AFLLS, specifics for Reading, and non-arbitrary relational repertoire.

SUMMARY

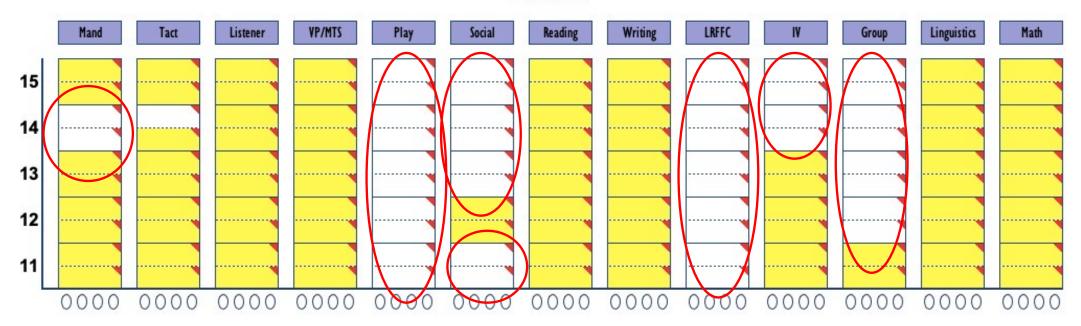
■ Luca loves a superhero series and some lpad games. He also participates well in board games (but it's not his first choice).

■ Barriers: shows rigidity with changes in his routine but often complains when he is asked to repeat the trials in a teaching session.

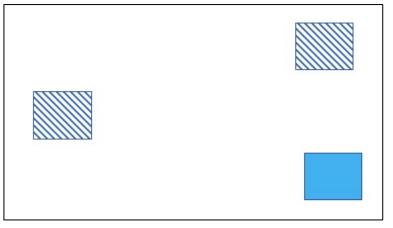
ASSESSMENT INFORMATION

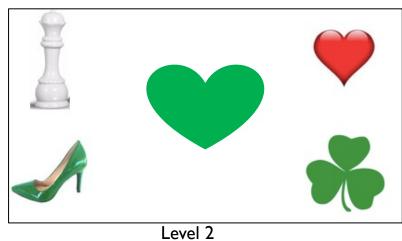
VB MAPP Level 3 - showed a few gaps.





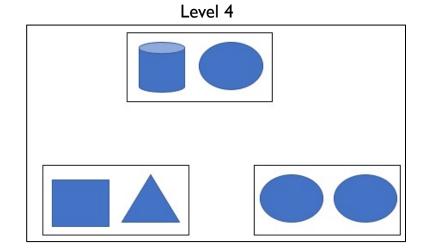
MDML EVALUATION – COORDINATION LEVELS 1-5.



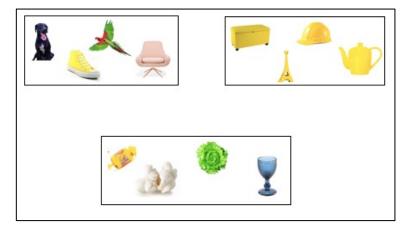




Level I



Level 5



ASSESSMENT INFORMATION

MDML – Levels 1-4 non arbitrary

		Non arbitrary		
123		Non arbitrary		
Coordination	Difference	Comparison	Opposition	
10/10	9/10	10/10	1/10	
7/10	4/10	10/10	_	
5/10	_	_	_	
0/5	_	_	_	
_	_	_	_	
	10/10 7/10 5/10	10/10 9/10 7/10 4/10 5/10 _	10/10 9/10 10/10 7/10 4/10 10/10 5/10	

CLINICAL INTERVENTION PROGRAM - OBJECTIVES

- LEVEL 2 COORDINATION NON ARBITRARY RELATIONS
- Match in the same/different relations, 2D stimuli, in terms of shape/color in a set involving four pictures, presenting contextual cues of same/different.
 - Correction Critereon: if the learner make two consecutive mistakes the relation can be directly trained and one **new set of non-familiar** added to the procedure.
 - Ending Critereon: being able to respond to five **new stimuli** without presentation of reinforcement.

CLINICAL INTERVENTION PROGRAM - OBJECTIVES

- LEVEL I COORDINATION ARBITRARY RELATIONS
- Match pictures of animals with written English names (These training trials will be reinforced).
 - When the learner is consistently relating two pairs of names and pictures of animals he can proceed to the test.
 - **Test Level I** Present the written English names and the learner have to select the respective animal.
 - Ending Critereon: two correct answers out of of two opportunites in two simultaneous blocks.

CLINICAL INTERVENTION PROGRAM - OBJECTIVES

- LEVEL 2 COORDINATION ARBITRARY RELATIONS
 - Present the "sound that an animal makes" and the learner will select pictures of animal (These training trials will be reinforced).
 - When the learner is consistently relating two pairs of pictures and sounds of animals he can proceed to the test.
 - **Test Level 2** Present the written English name and the learner have to emit the respective sound.
 - Ending Critereon: two correct answers out of of two opportunites in two simultaneous blocks.

DIMENSIONS

Coherence:

• Non-arbitrary procedures: using visual-visual elements in the training will make the coherence higher than employing stimuli with different sensory properties (tactile, olfative).

Complexity

For early learners complexity should be always kept as low as possible, in other words isolated relationtypes and only the necessary number of elements for one specific level should be used. On the other hand, for more advanced learners, mixing different relation-types and adding more elements than the necessary in some given level could be desirable for refining their relational repertoire.

Derivation

- Employing familiar elements might likely lower the derivation level and non-familiar elements would likely have the opposite effect. (e.g., animal context vs teach a new language).
- Sometimes it is useful to lower the derivation level to increase fluency at the same level across future opportunities

• Flexibility:

- Try to employ different set ups for the stimuli presentation (other than traditional Matching to sample).
- Use the same stimuli from one relation to other relations.

THE MDML FRAMEWORK

Levels	Dimensions				
	Coherence	Complexity	Derivation	Flexibility	
Mutual Entailing	Coh/Mut-Ent	Cpx/Mut-Ent	Dev/Mut-Ent	Flx/Mut-En	
Relational Framing	Coh/Frame	Cpx/Frame	Dev/Frame	Flx/Frame	
Relational Networking	Coh/Net	Cpx/Net	Dev/Net	Flx/Net	
Relating Relations	Coh/Rel-Rel	Cpx/Rel-Rel	Dev/Rel-Rel	Flx/Rel-Rel	
Relating Relational Networks	Coh/Rel-Net	Cpx/Rel-Net	Dev/Rel-Net	Flx/Rel-Net	

CONCLUSION

- The roots of RFT can be traced back to an early conference paper on rule-governed behaviour in 1984
- A full book-length treatment of RFT is now itself 20 years old
- Curiously, the potential impact of the RFT approach to human language and cognition in applied behaviour analysis is only now beginning to emerge
- One of the main reasons that RFT failed to make a significant impact earlier was its apparent complexity and the introduction of many new terms and concepts (some might say jargon!) unfamiliar to traditional behaviour analysis
- Furthermore, RFT lacked an overarching framework that attempted to organise and summarise its key assumptions and concepts

CONCLUSION

- Many ABA researchers and practitioners understandably did not see any potential value in engaging with the theory in the absence of such a framework
- Hopefully with the introduction of the MDML in the general updating of RFT the much needed framework is emerging.
- This, we hope, will help ABA folks begin to utilise RFT in ways that hitherto could not readily be seen or appreciated
- Of course, this will take time and effort but we hope that todays workshop will play some small part in that
 journey

THANK YOU! ANY QUESTIONS?

YOU CAN FIND THE SLIDES FROM THIS WORKSHOP, AS WELL AS OTHER RESOURCES AND MATERIALS, FREE TO DOWNLOAD AT:

WWW.BALC-I.NET