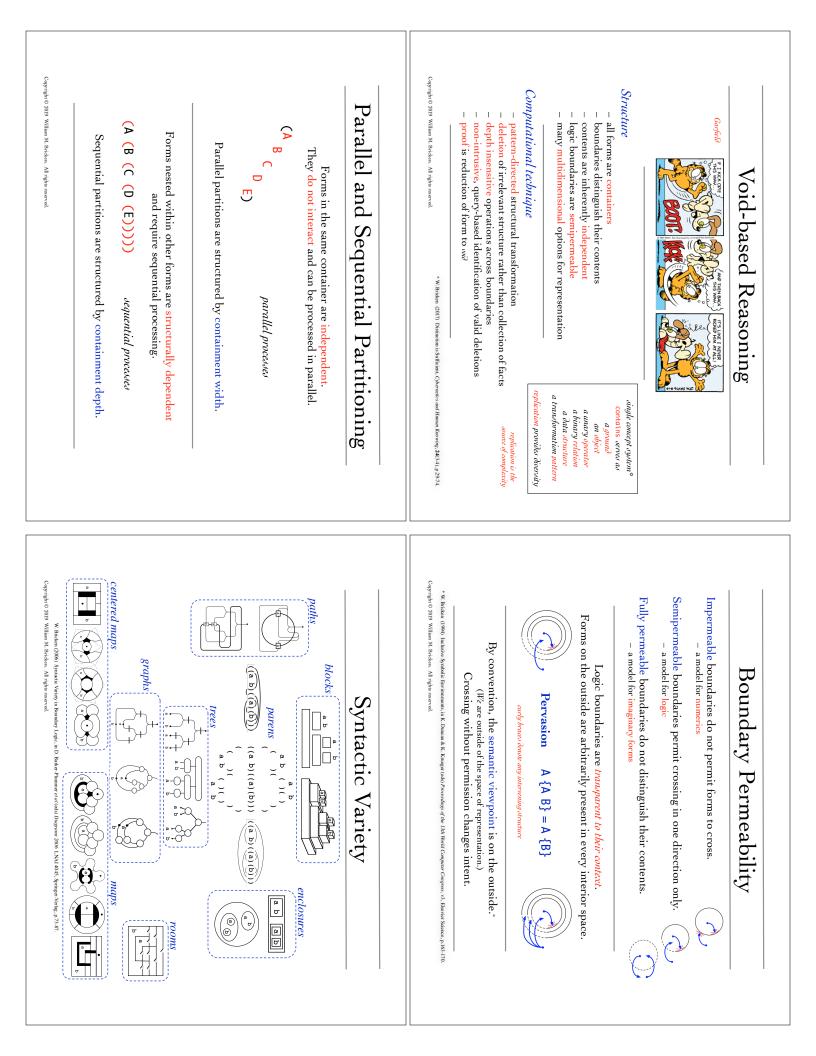
Image: Note of the sector of	BOUNDARY LOGIC: The Design of Computation Laws of Form 50th Anniversary Conference August 9, 2019 William Bricken William@iconicmath.com
Advanced Decisions Systems (1984-1988)         - intelligent software editor and behavioral query language         - parallel deduction engines         - artificial intelligence inference and contradiction maintenance         Interval Research Corporation (1995-2000)         - propositional and predicate logic deduction engines         - combinational circuit synthesis and optimization         - circuit design generation         - form abstraction         - ardware/software design integration         - bardware/software design integration         - bardware/software design and optimization         - corcuit design generation, apping and optimization         - corcuit design generation, analyping and routing         - abstraction, partitioning and layout optimization         - orcuit clogic optimizing compiler         - onvel reconfigurable hardware architectures         - ioric logic optimizing compiler         - ioric logic optimizing compiler	Style - 15 years of exploration within several companies, focusting an work with Dick Sharp - trying to find the most challenging applications for LoF logic optimization of 100,000 logic gate benchmark and industrial circuit designs - applications to computational software and silicon hardware only; no philosophy, no pure mathematics, no infinite excursions - pure boundary logic and technique only; no hybrid systems The presentation is a broad overview that shows technical applications of LoF from software engineering logic optimization software to design. This presentation can be downloaded at iconicmath.com

Image: Control of the control of th	Interval Research Corporation
Empty containers permit the semantic use of syntactic non-existence. () contains nothing on the inside. Void-equivalenc (a())= - forms and patterns can be equated to we - substitution of we for a void-equivalent form returns nothing to non-existence Void-based pattern transformation (B) = (A()) (B (A())) = (B) - void-equivalent forms can be deleted at will - void-equivalent forms can be constructed anywhere throughout a form Void-equivalent forms can be constructed anywhere throughout a form Void-equivalent forms are syntactically irrelevant and semantically inert. $Void-equivalent forms are syntactically irrelevant and semantically inert.Void-equivalent forms are syntactically irrelevant and semantically inert.Void-equivalent forms are syntactically irrelevant and semantically inert.$	Interaction         Gadu         • mathematics that directly supports formal verification         • interactical algebraic design language         • unification of banchware and software design         • formal verification of benchmark and industrial semiconductor designs         • propositional and predicate calculus engines         • distinction networks         • hierarchical and functional abstraction         • multilevel combinational and sequential circuit optimization         Transition analysis       Skoup and Furtek         • computation as signal propagation and change (vs objects and states)         • sequential and behavioral verification         Link theory       Etter and Skuup         • a general theory of formal structure         • connectivity defines information and independence         • connectivity defines information and independence         • connectivity defines information and independence



Broad Subsumption (a b c) (a (d (b (c e) (a b c) (a (d (b (c e) (a b c)))) (a b c) (a (d (b (c e) (a b c)))) (a b c) (a (d (b (c e) ( c)))) (a b c) (a (d (b (c e) ( c)))) (a b c) (a (d (b (c e) ( c)))))	((a) a b) (() a b)	Outer forms pervade all inner spaces. Their <i>hypothetical presence as queries</i> can trigger structural deletions.	Virtual Insertion	Copright © 2019 William M. Brisken. All rights reserved.	on	associativity binary rearrangement distribution	ţ	binary operator AND, OR arity specific		άġ		symbols strings constants {0,1}	BOOLEAN	LoF	Table of Non-Correspondence
(a b c) (a (d (b (c e)))) =?= (b (c e) (a b c)))) (b (c e) ( b (c )))) (b (c e) ( c)))) (b (c e) ( c))))	(a) (a b) =?= (a)	Outer forms pervade all inner spaces. al presence as queries can trigger strue			delete ~64.7% ( )	nesting pervasion	none	contains variary	none	structural	spaces	100ns	BOUNDARY	LoF is not Boolean.	n-Corresp
?= (a b c) (a (d (b))) insert (a b c) extract a b subsume (c e) discard (c) <i>virtual!</i>	<i>virtual forms in red</i> insert (a) extract a	<i>naces.</i> · structural deletions.	Technique		void-equivalence symmetric vs asymmetric	non-associative regroup vs construct	existence	two vs one countable vs not	existence	values vs patterns	existence	linear vs spatial two vs one	DIFFERENCE		ondence
b (a c) ((a)(b))(a (b (c))) ((b) ((a) (b)(a (b (c)))) ((b) ((a) (b) (a (c) (c)))) ((b) ((a) (b) (a) (c) (a)(c) (c))) ((b) ((a) (b) (c)))) ((b) ((a) (b) (c)))) ((b) ((a) (b) (c)))) ((c) ((c) (c) (c)))) ((c) ((c)	((a)(b))(a (b (c))) (a)( (c))) (b)( (c))) (b)( (c))) (c)( (c))))(c)( (c))) (c)( (c))))(	((a)(b))(a (b (c))) =?= b (a c) $A = B  iff  A = B = a  b = b (a c)$	Equivalence by Query	Copyright © 2019 William M. Dridson. All rights reserved.	Interpret TRUE			Reduce	( ((a) ( (a) b ) ) ) b	( (a) b ) )	(a AND (a) b) IMPLIES b	Transcribe	(a AND (a IMPLIES b)) IMPLIES b		Proof of Modus Ponens

