Some-thing from No-thing: G. Spencer-Brown's Laws of Form

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Ab stract: G. Spencer-Brown's Laws of Form is sum marized and the philo sophical implications exam ined. Laws of Form is a mathe matical system which deals with the emergence of any thing out of the void. It traces how a sin gle distinction in a void leads to the creation of space, where space is considered at its most primitive, with out dimension. This in turn leads to two seem ingly self-evident "laws". With those laws taken as ax ioms, first an arithmetic is developed, then an algebra based on the arithmetic. The algebra is formally equivalent to Boolean algebra, though it satisfies all 2-valued systems. By following the implications of the algebra to its logical conclusions, self-reference emerges within the system in the guise of re-entry into the system. Spencer-Brown in terprets this re-entry as creating time in much the same way in which distinction created space. Finally the paper considers the question of self-reference as seen in Francisco Varela's Principles of Biological Autonomy, which extended Spencer-Brown's Laws of Form to a 3-valued system.

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