

Informal semantics of modal logic.

-- Modal Logic (Stanford Encyclopedia of Philosophy)

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T	T	t	f	F	T	F	$\{T, f\}$
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f	T	$\{T, t\}$	$\{T, f\}$	t	f	t	$\{f, F\}$
F	T	T	T	T	F	T	$\{f, F\}$

Description: -

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Modal Logic (Stanford Encyclopedia of Philosophy)

The great success of the Kripkean model theory notwithstanding, it is worth emphasizing that not all modal logics are complete. Kripke says: In trying to construct a definition of universal logical validity, it seems plausible to assume not only that the universe of discourse may contain an arbitrary number of elements and that predicates may be assigned any given interpretations in the actual world, but also that any combination of possible worlds may be associated with the real world with respect to some group of predicates.

Modal logic

An excellent bibliography of historical sources can be found in Hughes and Cresswell 1968. Common logical features of these operators justify the common label. Density would be false if time were atomic, i.

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See Mares 2004 and the entry on. What is striking about this research is the power one obtains by weaving together logics of time, agency, knowledge, belief, and preference in a unified setting. The most important thing to be noticed in the 1959 model theory is the definition of validity.

Modal logic

Kripke saw very clearly this connection between the algebra and the semantics, and this made it possible for him to obtain model theoretic completeness and decidability results for various modal systems in a systematic way. Second, state-descriptions must make space for possible worlds understood as indices or points of evaluation. Boolean algebras correspond to matrices for propositional logic.

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