This book was written chiefly at the Center for Advanced Study at Wesleyan University (Connecticut). It was prompted by my distress at the outcome of the logical positivist tradition in which I had been trained. Though the philosophy championed science and scientific method, in practice its logic made for sterility and its positivism for superficiality.

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"Acceptance has not prevented me from identifying common shortcomings, like 'the law of the instrument' (give a small boy a hammer and he will find that everything he runs into needs pounding) and 'the drunkard's search' (he hunts for his door key not where he dropped it but under the street-lamp, because it's lighter there).

"Formal requirements can be discerned only in substantive contents. Some of these contents were familiar to me because of personal association over the years with a variety of behavioral scientists. Some years spent consulting for the mathematics division of the Rand Corporation preserved and sharpened a sense of the power of abstraction as well as the importance of concreta.

"Science is not merely a set of propositions; it is the work of scientists and is localized in their belief in these propositions. Its growth depends above all on their belief in the worth of what they are doing. Behavioral scientists have good reason for such a belief."


Abraham Kaplan
Department of Philosophy
University of Haifa
Mount Carmel, Haifa 31 999
Israel

December 30, 1979

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"The philosophy was at fault because of its remoteness from actual scientific practice. It analysed such 'scientific generalizations' as 'all crows are black' and debated whether the belief was justified that the sun will rise tomorrow. My undergraduate major in laboratory chemistry, a hobby of observational astronomy, and a long interest in the history of science made me sympathetic to a more realistic pragmatism—for instance, in the spirit, if not in the conceptual structure, of John Dewey's Logic: The Theory of Inquiry, the title I consciously echoed.

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