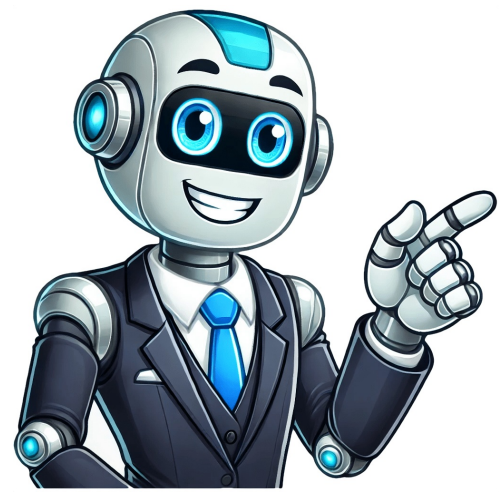


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newly discipline philosophy of science as well as to teach a new generation of philosophers, including Adolf Grünbaum, Wesley Salmon, and Hilary Putnam. With its rigorous formal methods, LE made the pragmatism of Charles Peirce, William James, and John Dewey seem quaintly dated and gradually displaced it as the official scientific philosophy of the twentieth century. Carnap and Neurath, the leading figures of the Logical Empiricism movement, were actually present. Accordingly, it was not only for opponents to miss the internal discord and war all LEs with the same brush. Although the LEs were vehemently antimetaphysical and rejected most philosophy as a meaningless, fruitless pursuit of solutions to "pseudoproblems," they were liberal in refusing to dogmatize about empirical questions and they viewed their group as openly to discussion of all issues. Another source of misunderstanding was A. J. Ayer's inflammatory *Language, Truth, and Logic* (1936), the book that brought German positivism to an English-speaking audience. Ayer's "potboiler" (as it has been called) mis-located the positivists in the British empiricist tradition. Archival research sensitive to the intellectual and cultural milieu of central Europe later provided a more accurate reinterpretation of the Austro-German positivist movement from Mach to Hempel. The participants came from varying academic backgrounds and life experiences and they frequently disagreed over matters of philosophical content as well as strategy and politics. They were their own most trenchant critics. For example, Kurt Gdel defended a Platonist (and hence metaphysical) ontology of mathematics. Neurath was out of sympathy with Carnap's project to reconstruct science within a formal logical system and with Schlick's commitment to the correspondence theory of truth. Neurath rejected the foundational, linear empiricist theory of justification, from supposedly infallible basic statements up through ever-higher levels of theory, in favor of a holistic coherence position featuring mutual support, a stance that he famously articulated in his ship metaphor: "There is no tabula rasa. We are like sailors who have to rebuild their ship on the open sea, without ever being able to dismantle it from the best components" (Giere and Richardson, p. 83). The LEs also disagreed over labels. Several members attacked "positivism," and Reichenbach sometimes denied that he was a "logical empiricist." Carnap, however, was not a positivist, and he was not a logical empiricist. The LEs were not a movement, but a loose association of individuals who shared a common interest in the philosophy of science. The LEs had too serious an engagement with Kant to be squally in the British empiricist tradition. They were anti-Kantian up to a point, with the political goal of displacing the neo-Kantianism of the Marburg school (which included Ernst Cassirer) as the dominant school of scientific philosophy in Europe. The central problem was to retain what was correct in Kant's critique of crude, British empiricism without commitment to Kant's permanent categories and forms of intuition, which licensed synthetic a priori judgments. The latter are necessary truths that are knowable a priori yet make substantive statements about the universe, for example, that physical space is Euclidean and the laws of mechanics, Newtonian. Without them, Kant had said, mathematics and natural science would be impossible. Kant had realized that sensory inputs do not automatically sort themselves into intelligible perceptions about which we can make coherent judgments. Coherent perception and thought must be actively constituted by the human mind by means of its processing rules (the categories and forms of intuition). Upon analyzing rationality theory, Reichenbach and Schlick concluded that Kant was partly right: science does need constitutive framework principles that are neither logical truths nor empirical claims subject to testing and in that sense a priori. But how, then, to avoid Kant's commitment to a special, nonnatural intuition that yields synthetic a priori truths? Briefly, the LEs' solution, anticipating Kuhn's paradigms by several decades, was to disambiguate Kant's necessary a priori from the constitutive a priori of framework principles and to regard the latter as based on human convention rather than Kantian intuition. 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