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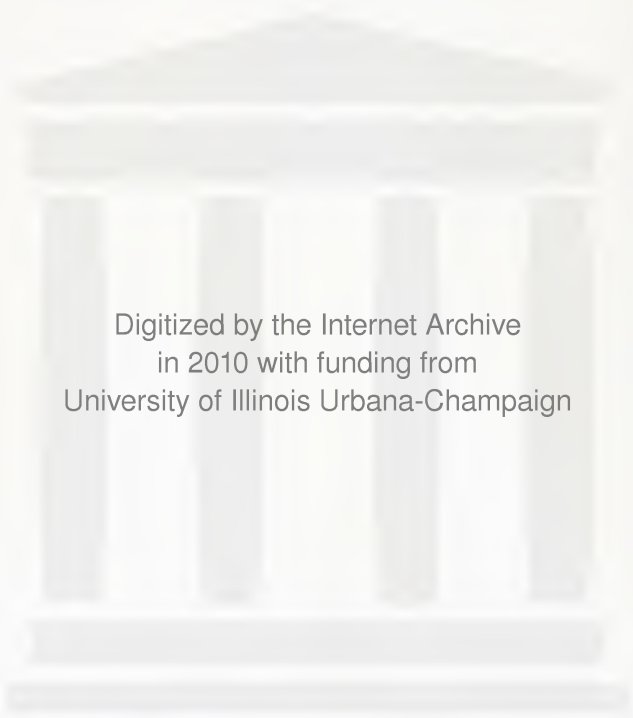
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**STUDIES OF THE LOCATION, PLANNING, ZONING, AND
DEVELOPMENT OF CIVIL AIRPORTS IN THE UNITED STATES:
A Selected Bibliography of Sources for the Period 1920-1974**

Eugene C. Kirchherr
Professor of Geography
Western Michigan University

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Table of Contents

| Part | Page |
|---|------|
| I. Introduction..... | 2 |
| Scope of the Bibliography..... | 3 |
| Special Notes..... | 5 |
| II. Selected Sources: Background Material on Aviation and Airport Development, and Special Bibliographies. | 7 |
| III. Selected Sources: 1920 through 1945..... | 13 |
| IV. Selected Sources: 1946 through 1960..... | 17 |
| V. Selected Sources: 1961 through 1970..... | 23 |
| VI. Selected Sources: 1971 through mid-1974..... | 35 |

¹This bibliography was prepared in early 1975 when the author had been granted sabbatical leave by Western Michigan University to undertake study and research as a Visiting Scholar with the Department of Urban and Regional Planning of the University of Illinois at Urbana-Champaign (UIUC). The author wishes to express his appreciation to Professor Michael Brooks, Head of the Department of Urban and Regional Planning, for providing departmental facilities during the period of residency and to also acknowledge the interest and assistance in this undertaking by Mrs. Mary Vance of the City Planning and Landscape Architecture Library, UIUC.

I. Introduction

The airport might be defined very simply as "an area used or intended to be used primarily for the landing and takeoff of fixed-wing aircraft."² That definition, however, proves

²U.S. Federal Aviation Administration. Heliport Design, 1969, pp. 2-3.

inadequate in more accurately describing -- and recognizing -- the airport as a specialized use of land (1) which functionally must serve as a terminal, with facilities for aircraft operations (takeoffs and landings) and accommodations for pilots and passengers, (2) whose operations affect the use of land and airspace of the landing field and of vicinal areas, and (3) which is somehow expected to be compatible with local patterns of land use and residential development. If reconciling these diverse requirements has proven difficult in the past, it must be conceded that the search for solutions satisfactory to all concerned is not one that has given cause for jubilation.

So complex have aspects of airport planning become that it has become necessary for airport authorities or prospective airport operators to seek the services of a variety of specialists who can provide professional assistance in dealing with matters such as airport site determination, local, state, and federal aeronautical programs and regulations, actual or potential aircraft noise impact, or the adequacy of surface transport between terminals and centers of population. Not surprisingly, general and specific aspects of airport planning

and development, especially for larger metropolitan terminals, have been presented in an increasing flow of government documents and in articles in scholarly/technical journals.

SCOPE OF THE BIBLIOGRAPHY

This bibliography primarily concentrates on published works -- books, monographs, government reports, and journal articles. With very few exceptions, the entries in this bibliography were perused by the author to judge their appropriateness for inclusion. The bibliography is not, nor was it intended to be, the comprehensive, definitive bibliography on airport planning and zoning; the more modest (and less presumptuous) objective was to bring together in one source a reasonably broad listing of published materials, and to thereby produce a selective bibliography that might be of potential interest and service to those many individuals, professionals and laymen alike, who share in the making of decisions concerning airport development.

A search was undertaken to uncover literature that would be representative of the better research and/or commentary by qualified specialists in various fields. Unfortunately, this meant excluding many excellent studies by (and for) local agencies because of their limited frame of reference; perhaps that decision can be further justified in observing that it is often difficult to obtain locally-focused studies as they are printed in limited quantities. There are, of course, "case

studies" where the intent and findings of the research were to be applicable beyond the study area, and such studies were considered suitable for inclusion. Other materials considered inappropriate for listing in this bibliography were abstracts, papers duplicated for distribution at meetings though not published elsewhere, and, apart from several articles in Airport Services Management, brief news stories appearing in trade journals and weekly magazines (e.g., Aviation Week and Space Technology, Time, Business Week).³ To have incorporated all such

³Another trade journal, Airport World, cease publication in 1974.

items would have resulted in an unwieldy, and a not necessarily more serviceable, bibliography. Moreover, anyone wishing to pursue some matter further will find guidance in the special bibliographies (listed in Part II) as well as in the excellent lists of references provided in listed books and articles.

A chronological breakdown was employed in organizing this bibliography, though the author would readily admit such a scheme may not prove entirely satisfactory for some users. Despite the shortcomings, the chronological divisions have an advantage in providing a convenient separation of current material for those familiar with the subject and wishing only to check other possible sources, yet being a framework that is possibly helpful to other users desiring to trace changes in planning and zoning concepts over the years. The author would also note that the divisions in time periods were not arbitrarily

selected, for they reflect points in time when major changes were occurring in aviation technology (such as the introduction of jet aircraft in commercial aviation in the late 1950s) or in the federal government's participation in airport development (e.g., the passage of the Federal Airport Act of 1946.

SPECIAL NOTES

1. Civil Airports. The term "Civil Airports" is used in the title of the bibliography to indicate a concentration on matters relating to airports which are certificated to operate as public-use facilities, whether those airports are publically- or privately-owned. Furthermore, "Civil Airports" as used here includes all classes of airports, ranging from major air carrier terminals to the smaller, yet locally significant general aviation airports; excluded by this definition are seaplane bases, military air bases, and private landing strips. A few bibliographies and articles on heliports have been included as such facilities may be regarded as integral components of a metropolitan or regional airport system.

2. Government Publications. Entries preceded by "U.S." are government publications which are normally purchased from the U.S. Government Printing Office, Washington, D.C. 20402. Prices for government publications are listed in GPO catalogs available at most libraries. Publications of the Federal Aviation Administration can be consulted at local FAA offices

and at some of the larger airports.⁴

⁴Changes in the scope of responsibility of the principal federal aeronautical agency have been paralleled by changes in the name of the agency: Aeronautics Branch (1926-34); Bureau of Air Commerce (1934-38); Civil Aeronautics Authority (1938-40); Civil Aeronautics Administration (1940-58); Federal Aviation Agency (1958-67); Federal Aviation Administration (1967-). This accounts for the different names of the issuing agency that will appear on government studies of aviation and airports in different sections of the bibliography.

A number of government reports and documents, whether prepared as "in-house" studies or contracted to private research organizations, are available for purchase from a special clearinghouse, the National Technical Information Service (NTIS) in Springfield, Virginia. Where it has been clearly established that a given publication should be ordered from NTIS, that fact is noted in the entry.

3. ASCE: American Society of Civil Engineers. The letters "ASCE" are used in the titles of various journals published by the American Society of Civil Engineers.

4. Doctoral Dissertations. Doctoral dissertations are technically regarded as "unpublished" studies, and, following general practice, their titles are not underscored in the bibliography. However, dissertations can be procured (either borrowed or purchased) with the assistance of a professional librarian.

II. Selected Sources: Background Material on Aviation and Airport Development, and Special Bibliographies

Air Transportation 1975 and Beyond: A Systems Approach. Report of the Transportation Workshop, 1967. Cambridge, Massachusetts: The MIT Press, 1968. Chap. 5, "Airports and Terminals"

Airport Report. Official publication of the American Association of Airport Executives. Published twice monthly by AAAE, Washington, D.C.

Airport Services Management: The Management Magazine for Airports and Airport-Based Operations. Published monthly by Lakewood Publications, Inc., Minneapolis, Minnesota.

General trade journal intended for airport officials and fixed-base operators.

Arnold, H. H. and Ira Eaker. This Flying Game. New York: Funk and Wagnalls, 1936.

Aviation Week and Space Technology. Published weekly by McGraw-Hill, Inc.

Trade journal of the aviation industry which often includes news articles on current matters related to airport development.

Bilstein, Roger E. "Prelude to the Air Age: Civil Aviation in the United States, 1919-1929." Ph.D. dissertation, Ohio State University, 1965.

Burkhardt, Robert. The Federal Aviation Administration. New York: Frederick A. Praeger, Inc., 1967. Chap. IX, "Airports and Airport Aid."

Burnett, Pat, William D. Chipman and Harry P. Wolfe. Political Decision Processes, Transportation Investment and Changes in Urban Land Use: A Selective Bibliography with Particular Reference to Airports and Highways. Exchange Bibliography no. 621. Monticello, Illinois: Council of Planning Librarians, 1974. "Airport Investment and Its Effects," pp. 37-54.

Catalogue of the Library of the Graduate School of Design, Harvard University (1968); First Supplement, 1970; Second Supplement (1974). Boston G. K. Hall and Co. See entries under "Airports."

"Congress and the U.S. Role in Financing Airport Development." Congressional Digest, December 1968, pp. 289-310.

Helpful presentation of essential information (and arguments) concerning the federal role in airport development prior to the passage of the Airport and Airway Development Act of 1970.

"Congress Considers Formulation of a National Aviation Policy."
Congressional Digest, January 1949, pp. 9-32.

Current Literature in Traffic and Transportation. Published
monthly by The Transportation Center Library, Northwestern
University.

Special bibliographic source listing current articles,
books, and reports for "Airports" and related topics.

Dearing, Charles L. and Wilfred Owen. National Transportation
Policy. Washington: Brookings Institution, 1949.
Chap. II, "Airways and Airports."

Editors of American Heritage. The American Heritage History
of Flight. Published by American Heritage Publishing
Co., and distributed by Simon and Schuster, Inc., 1962.

FAA Aviation News. Published monthly by the Office of Public
Affairs of the Federal Aviation Administration, Washington,
D.C.

Hudson, Kenneth. Air Travel: A Social History. Totowa,
New Jersey: Rowman and Littlefield, 1972.

Hunsaker, Jerome C. Aeronautics at the Mid-Century. New
York: Yale University Press, 1952.

Although dated, this stands as one of the most readable,
informative accounts of the first half-century of
aviation in the U.S.

Kane, Robert M. and Allan D. Vose. Air Transportation. 4th
ed. Dubuque, Iowa: Kendall/Hunt Publishing Co., 1974.

King, Richard L. Airport Noise Pollution: A Bibliography of
Its Effects on People and Property. Metuchen, New Jersey:
Scarecrow Press, 1973.

Land Use Law and Zoning Digest. Published monthly by the
American Society of Planning Officials, Chicago, Illinois.

Includes abstracts of judicial decisions and new legislation
affecting airport land use; "Airports" included in
monthly and annual subject index. (Note: this publication
was called Zoning Digest before 1974.)

Li, Shu-t'ien. Bibliography on Airport Engineering: A Compilation of Free World Literature Numbering 2,335 Entries Classified into 26 Groups and Arranged Chronologically. New York: American Society of Civil Engineers, 1960.

Compilation of literature from 1938 to 1959. Primarily designed as an engineering reference, but useful source material included in Sect. A., "Legislative, Regulatory, Financing, Legal, and Administrative," Sect. C, "Location and Planning," and Sect. U, "Jet-Age Airports."

Lipsner, Benjamin B. The Airmail: Jennies to Jets. Chicago: Wilcox and Follett Co., 1951.

Mertins, Herman, Jr. National Transportation Policy in Transition. Lexington, Massachusetts: Lexington Books, D. C. Heath and Co., 1972. "Aviation--The Burgeoning Benefactor," pp. 48-53; "The Federal Government-Air Industry Relationship," pp. 153-59; "Perspective on National Transportation Policy," pp. 179-94.

NIMLO Municipal Law Review. Published annually by the National Institute of Municipal Law Officers, Washington, D.C.

Excellent reviews of legislation, legal decisions, and related matters affecting airport land use are included in the annual report by NIMLO'S Committee on Airports.

Nelson, Jon P. Economic Aspects of the Airport Environment: Noise, Air Pollution, and Congestion. Exchange Bibliography no. 343. Monticello, Illinois: Council of Planning Librarians, 1972.

Ogburn, William Fielding. The Social Effects of Aviation. Boston: Houghton Mifflin Co., 1946. Chap. 5, "Technological Trends in Aviation;" Chap. 9, "Landing Places."

Palmer, Robert K. "List of Information Sources for Airport Planners," Transportation Engineering Journal of ASCE, 98, February 1972, pp. 131-38.

Provides useful data on five categories of sources: I. Books; II. Government Organizations; III. Professional Organizations; IV. Manufacturers, Trade Associations, and Miscellaneous Sources; V. "Commercial Periodicals."

Pegrum, Dudley F. Transportation: Economics and Public Policy. 3rd ed. Homewood, Illinois: Richard D. Irwin, Inc., 1973. "Regulation of Air Transportation," pp. 336-59; "Airports," pp. 521-25.

Peterson, John Eric. Location Requirements for Civil Airfields Serving Heavy Turbojet Aircraft. Council of Planning Librarians, Exchange Bibliography; University of Illinois List no. 4. Berkeley, California: Department of City and Regional Planning, University of California, 1958.

Short, now dated bibliography, yet of some interest because it includes citations to studies of airport planning prior to the large-scale introduction of jet aircraft in civil aviation.

Rhoads, Steven E. Policy Analysis in the Federal Aviation Administration. Lexington, Massachusetts: Lexington Books, D.C. Heath and Co., 1974. Chap. 5, "Analytic Influence on the Johnson and Nixon Administrations' Airways/Airport Legislative Proposals."

Rhyme, Charles S. The Civil Aeronautics Act Annotated, with the Congressional History Which Produced It, and the Precedents Upon Which It is Based. Washington: National Law Book Co., 1939.

Though not treating the subjects of airport planning and zoning, this work is nonetheless noteworthy as a useful source on important federal legislation pertaining to aviation through the late 1930s.

Ripley, Randall B. "Congress Champions Aid to Airports, 1958-59," pp. 20-71. In Congress and Urban Problems: A Casebook on the Legislative Process, by Frederic N. Cleveland and Associates. Washington: The Brookings Institution, 1969.

Robbins, Jane B. Access to Airports: Selected References. Exchange Bibliography no. 61. Monticello, Illinois: Council of Planning Librarians, 1968.

From introduction: "For the purposes of this bibliography, airport access is defined as transporting passengers and baggage by any mode of transportation from their origin to the airport or from the airport to their destination within the confines of an urban area."

Scamehorn, Howard L. Balloons to Jets: A Century of Aeronautics in Illinois, 1855-1955. Illinois State Historical Society, Occasional Publication no. 52. Chicago: Henry Regnery Co., 1957.

Scholarly, interestingly written account of aviation history for a particular state.

Smith, Henry Ladd. Airways: The History of Commercial Aviation in the United States. New York: Alfred A. Knopf, 1942.

Special Libraries Association. Planning, Building, and Housing Section. A Selected Bibliography on Airport Zoning. Prepared by Joyce Malden, 1963.

Taylor, John W. R. and Kenneth Munson. History of Aviation. London: New English Library, 1972.

U.S. Aviation Advisory Commission. The Long Range Needs of Aviation. Report of the Aviation Advisory Commission, 1973.

Recent report which lists "more than three score recommendations for meeting the long-range needs of aviation ... (which) taken together... constitute a major national effort to anticipate the problems of the future, and to deal with them now before they become so great as to impose their own solutions on the aviation industry." Report divided into six chapters: (1) Introduction; (2) Aviation: An Asset of National Importance; (3) Noise: The Great Constraint; (4) Aerospace Industry in Trouble; (5) Government Organization; (6) An Aviation System for the Future.

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U.S. Commission on Intergovernmental Relations. A Staff Report on Federal Aid to Airports, 1955.

Informative historical survey of federal government's participation in airport development through the mid-1950s.

U.S. Federal Aviation Administration. FAA Statistical Handbook on Aviation. Issued annually.

Provides data on various aspects of aviation including statistics on numbers of airports and airport operations.

U.S. Federal Aviation Administration. Library Services Division. Air Traffic and Airport Congestion: Selected References. Bibliographic List no. 17. Compiled by Nancy B. Nelsen, 1969.

U.S. Federal Aviation Administration. Office of Management Systems. Agency Historical Staff. The Federal Turnaround on Aid to Airports, 1926-38, by Ellmore A. Champie, 1973.

- U.S. Federal Aviation Agency. Library Branch. Access to Airports: Selected References. Compiled by Louise K. Annus. Bibliographic List no. 12, 1966.
- U.S. Federal Aviation Agency. Library Branch. Airport Management: A Selected List of References. Bibliographic List no. 3, 1962.
- U.S. Federal Aviation Agency. Library Branch. Airport Site Selection: A Selected List of References. Bibliographic List no. 1, 1961.
- U.S. Federal Aviation Agency. Library Branch. Airports and Heliports: Design Construction and Maintenance--Selected References. Bibliographic List no. 9, 1963.
- U.S. Federal Aviation Agency. Library Branch. Airports and Heliports: Planning, Management and Operations, Safety --Selected References. Bibliographic List no. 10, 1963.
- U.S. Department of Transportation. Office of Administrative Operations. Library Sources Division. Airport Problems: Access and Air Traffic Congestion--Selected Readings. Bibliographic List no. 4, 1971. Compiled by Maria R. Haywood.
- U.S. Works Progress Administration. Bibliography of Aeronautics. Part 37. Airports. New York, 1937.

Probably the most comprehensive bibliography of that date:
 I. Books and Pamphlets on Airports; II. Periodical Articles, Books, Pamphlets, etc., on Airports, Classified by Subject; III. Periodical Articles..., etc.....
 Classified by Country.

Urban Affairs Abstracts. Published weekly with 3 quarterly cumulations and an annual cumulation. Washington: National League of Cities and the U.S. Conference of Mayors. See "Transportation--Air" for annotated bibliography of recent articles in weekly newsmagazines and in numerous scholarly journals.

Whitnah, Donald R. Safer Skyways: Federal Control of Aviation, 1926-1966. Ames, Iowa: The Iowa State University Press, 1966.

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The Airport Dilemma: A Review of Local and National Factors in Airport Planning and Financing. Prepared jointly by the American Society of Planning Officials and the American Municipal Association. Chicago: Public Administration Service, 1938.

American Public Works Association. Airports: Location, Design, Financing, Zoning, and Control. Report of the Committee on Airports. Bulletin no. 27. Chicago: A.P.W.A., 1944.

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Bogert, George Gleason. "Recent Developments in the Law of Aeronautics," Cornell Law Quarterly, 8, 1922-23, pp. 26-35.

Author traces developments in aeronautical law subsequent to his 1921 article.

Bohlen, Francis H. "Surface Owners and the Right of Flight," American Bar Association Journal, 18, 1932, pp. 533-36.

Bouvé, Clement C. "Private Ownership of Navigable Airspace Under the Commerce Clause," American Bar Association Journal, 21, 1935, pp. 416-22.

From note following title: "Following discovery of aviation a new natural channel of interstate commerce has come into being and it follows that the power of Congress over this new instrumentality of interstate commerce is as exclusive, under the Constitution, as it has been recognized to be with respect to navigable rivers, lakes, and coastal waters--principle applied to question of private ownership in navigable air space."

Curtis Publishing Co. Advertising Department. Division of Commercial Research. The Aviation Industry: A Study of Underlying Trends. Philadelphia: Curtis Publishing Co., 1930. Chapter XX, "Airports."

Davis, W. Jefferson. Aeronautical Law. Los Angeles: Parker, Stone, and Baird Co., 1930. Part Two, "Ownership, Operation and Control of Airports" (5 chapters).

Davison, Robert L. "Airport Design and Construction," Architectural Record, May 1929, pp. 490-515.

Duke, Donald. Airports and Airways: Cost, Operation, and Maintenance. New York: The Ronald Press Co., 1927.

DuPuy, Frederick Kinsey. "Post War Airports," Architect and Engineer, 161, May 1945, pp. 16-19.

Fagg, Fred D., Jr. "Airspace Ownership and the Right of Flight," Journal of Air Law, 3, 1932, pp. 400-410.

Reviews decisions and interpretations growing out of conflicts between aviators and landowners in the early decades of the century.

Grant, Irvin. "Constitutionality of Zoning Laws Enacted to Protect Airport Approaches," Journal of Air Law and Commerce, 13, 1942, pp. 272-77.

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National Aeronautic Association. State Laws Relating to Airports, Airport Zoning, Air Navigation Facilities in Force July 1, 1944. Prepared by Air Transport Association of America for Joint Airport Users Conference, Washington, 1944. Washington, 1944.

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Niles, Emory H. "The Present Status of the Ownership of Air-space," Air Law Review, 5, 1934, pp. 132-56.

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Rhyné, Charles S. Airports and the Courts. Washington: National Institute of Municipal Law Officers, 1944.

Described by the author as "a complete collection and analysis of all reported Court Decisions involving acquisition, operation, maintenance and zoning of airports, together with an analysis of Federal, state, and local legislation in the airport field. The air space rights of landowners, aviators and airport operators are analyzed in the light of applicable legislation and legal principles." Unquestionably a definitive study on the status and problems of airports in the U.S. by the early 1940s.

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Wood, John Walter. Airports: Some Elements of Design and Future Development. New York: Coward-McCann, Inc., 1940.

Comprehensive survey and comparison of 48 airports in North America, South America, and Europe before the beginning of World War II. Particular attention should be focused on Part I, "The Requirements of the Airport," and Part III, "A Traffic-Control Airport-Expansion Plan" (a proposed layout for commercial airports).

Zollman, Carl. Cases on Air Law, Covering Aviation and Radio. 2nd ed. St. Paul, Minnesota: West Publishing Co., 1932, with 1938 Supplement. Chap. 4, "Air Space Rights;" Chap. 5, "Airports."

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Air Transport Association of America. Airline Airport Design Recommendations. Washington: A.T.A.A., 1946. Published in six parts. Part I. Airport Requirements--Airport Location--Classification of Airports, etc.; Part II. Airport Obstructions, Approaches and Zoning.

- "Airports and Heliports in the Jet Age." pp. 63-76. In Planning 1957: Selected Papers from the National Planning Conference. Chicago: American Society of Planning Officials, 1957. Collection of papers on the general theme presented by Thomas M. Sullivan, John M. Hunter and James S. Ricklefs.
- Airports of Tomorrow. Report of the Regional Airport Conference on Its Plan for Development of an Airport System for the New York Metropolitan Region. New York: Regional Plan Association, 1947.
- Of interest as one of the first post-World War II efforts to create an integrated system of airports for a major metropolitan region.
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- Creighton, Roger. "Airports," pp. 228-32. In Local Planning Administration. 3rd ed. Edited by Mary McLean. Chicago: International City Managers' Association, 1959.
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