

# ALAN KEITH FOX

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U.S. International Trade Commission  
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## RESEARCH FIELDS

International trade, trade and environment, computable general equilibrium (CGE) modeling

## EDUCATION

**Ph.D. Economics**, December 2000

*University of Michigan*  
Ann Arbor, MI

Research in international trade and computer-based economic simulation

**M.A. Economics**, May 1993

*University of Michigan*  
Ann Arbor, MI

Fields: International Economics and Macroeconomics

**Independent study**, Oct. 1989–June 1990

*University of Fribourg*  
Fribourg, Switzerland

Research in macroeconomics supervised by Prof. Bernard Schmitt

**B.S. Economics**, December 1988

*Georgetown University*  
Washington, DC

Specialization in International Economic Theory  
Certificate of German Studies; proficiency in German and French

## PROFESSIONAL EXPERIENCE

**Lead International Economist**, June 2016–now

*Research Division*

**International Economist**, Oct. 2000–June 2016

*U.S. International Trade Commission*  
Washington, DC

Provide research support to the USITC, the U.S. Trade Representative and Congress on trade policy issues.

**Senior Economist (Detail)**

*Office of the Chief Economist*

January–December 2015

*U.S. Department of State*  
Washington, DC

Provide analytical support on economic issues of diplomacy, including aviation (Open Skies), climate change (leadup to COP21), and economic sanctions.

**Member, EPA Scientific Advisory Board**

*CGE Model Review Panel*

June 2019–August 2020

*U.S. Environmental Protection Agency*  
Washington, DC

Advise the National Center for Environmental Economics (NCEE) on the adoption and use of the SAGE model.

**PROFESSIONAL EXPERIENCE, CONTINUED****Member, EPA Scientific Advisory Board**

June 2015–August 2017

*Economy-wide Modeling Panel  
U.S. Environmental Protection Agency  
Washington, DC*

Advise EPA on the use of economy-wide modeling in its analyses of the social costs, benefits, and economic impacts of air regulations.

**Adjunct Assistant Professor**

Fall 2004, Spring 2006, Fall 2007

*Department of Economics  
Georgetown University  
Washington, DC*

Econ-542, International Trade, Masters program, School of Foreign Service (Fall 2004)

Econ-243, International Trade, Undergraduate program (Spring 2006, Fall 2007)

**Adjunct Assistant Professor**

Fall 2005

*Department of Economics  
American University  
Washington, DC*

Econ-784, Ph.D. seminar in international trade and finance

**Graduate Student Instructor**

Winter 1998

Introductory Macroeconomics

*University of Michigan  
Ann Arbor, MI*

**Research Assistant**

1991–1999

Assisted Professors Alan Deardorff and Robert Stern in CGE modeling, including studies of the Uruguay Round, expansion of the EU, NAFTA expansion, Tunisia-EU liberalization, and trade liberalization in India.

*University of Michigan  
Ann Arbor, MI*

**Summer Assistant**

Summer 1996

Research Assistant in the International Economics, International Trade (IECIT) Division and in the Africa Technical Families, Macro 2 (AF2PE) Division.

*World Bank  
Washington, DC*

**PUBLICATIONS**

“Technical review of EPA’s computable general equilibrium model, SAGE,” as member of the Computable General Equilibrium Model Review Panel, transmitted to the requestor August 28, 2020, [https://yosemite.epa.gov/sab/SABPRODUCT.NSF/81e39f4c09954fcb85256ead006be86e/511476D92CEF2AC7852585D6005D373C/\\$File/EPA-SAB-20-010.pdf](https://yosemite.epa.gov/sab/SABPRODUCT.NSF/81e39f4c09954fcb85256ead006be86e/511476D92CEF2AC7852585D6005D373C/$File/EPA-SAB-20-010.pdf).

“Computable general equilibrium models: an evaluation,” with Serge Shikher and Marinos Tsigas, in *Encyclopedia of international economics and global trade*, v. 3, Francisco L. Rivera-Batiz, Mariana Spatareanu and Can Erbil, eds., Singapore: World Scientific, 2020, <https://www.worldscientific.com/doi/abs/10.1142/11286>.

“How Trade Sensitive Are Energy-Intensive Sectors?”, with Carolyn Fischer, *AEA Papers and Proceedings*, 108:130–35, May 2018, <https://doi.org/10.1257/pandp.20181088>.

## PUBLICATIONS, CONTINUED

“The emissions reduction effect and economic impact of an energy tax vs. a carbon tax in China: A dynamic CGE model analysis”, with Lele Zou, Jinjun Xue, and Bo Meng, *The Singapore Economic Review*, 63(02):339–387, March 2018, <https://doi.org/10.1142/S021759081740015X>.

“Output-based allocation of emissions permits for mitigating the leakage and competitiveness issues for the Japanese economy,” with Shiro Takeda, Toshi H. Arimura, Hanae Tamechika, and Carolyn Fischer, *Environmental Economics and Policy Studies*, 16(1):89-110, January 2014, <https://doi.org/10.1007/s10018-013-0072-8>.

“Climate policy and fiscal constraints: do tax interactions outweigh carbon leakage?” with Carolyn Fischer, *Energy Economics*, 34(supplement 2): S218–S227, December 2012, <https://doi.org/10.1016/j.eneco.2012.09.004>.

“Comparing policies to combat emissions leakage: border carbon adjustments versus rebates,” with Carolyn Fischer, *Journal of Environmental Economics and Management*, 64(2):199–216, September 2012, <https://doi.org/10.1016/j.jeem.2012.01.005>.

“Is Puerto Limón a real lemon? Port inefficiency and its impact,” with Paul Kent, in *International Handbook of Maritime Economics*, 405–438, Kevin Cullinane, ed., Edward Elgar, Cheltenham, UK, and Northampton, MA, June 2011.

“The role of trade and competitiveness measures in U.S. climate policy,” with Carolyn Fischer, *American Economic Review: Papers & Proceedings*, 101(3): 258–62, May 2011, <https://doi.org/10.1257/aer.101.3.258>.

“Why don’t foreign firms cooperate in antidumping investigations?: an empirical analysis,” with Michael O. Moore, *Review of World Economics*, 145(4): 597–613, January 2010, <https://doi.org/10.1007/s10290-009-0035-0>.

“Textile and apparel barriers and rules of origin: what’s left to gain after the Agreement on Textiles and Clothing?,” with William Powers and Ashley Winston, *Journal of Economic Integration*, 23(3): 656–684, September 2008, <http://www.jstor.org/stable/23001236>.

“Output-based allocation of emissions permits for mitigating tax and trade interactions,” with Carolyn Fischer, *Land Economics*, 83(4): 575–599, November 2007, <http://le.uwpress.org/content/83/4/575.abstract>.

“Is there a rationale for output-based rebating of environmental levies?” with Alain L. Bernard and Carolyn Fischer, *Resource and Energy Economics*, 29(2): 83–101, May 2007, <https://doi.org/10.1016/j.reseneeco.2006.07.001>.

“Taste parameters and model residuals: assessing the ‘fit’ of an Armington trade model”, with Russell H. Hillberry, Michael A. Anderson, and Edward J. Balistreri, *Review of International Economics*, 13(5): 973–984, November 2005, <https://doi.org/10.1111/j.1467-9396.2005.00548.x>.

**PUBLICATIONS, CONTINUED**

*Three essays on international trade policy*, dissertation, University of Michigan (2000), including: "Evaluating the success of a CGE Model of the U.S.–Canada free trade agreement"; "Returns to scale in a CGE framework"; and "The political economy of child labor and trade legislation".

"The liberalization of services trade: potential impacts in the aftermath of the Uruguay Round," with Drusilla Brown, Alan Deardorff, and Robert Stern, in Will Martin and L. Alan Winters (eds.), *The Uruguay Round and the Developing Economies*, 292–315, New York: Cambridge University Press, 1996.

"A computational analysis of the effects of reductions in U.S. military expenditures," with Robert Stern, in Manas Chatterji, Henk Jager, and Annemarie Rima (eds.), *The Economics of International Security*, 62–77, New York: St. Martin's Press, 1994.

"Effects of reductions in NATO military expenditures on U.S. employment by sector/occupation/region," with Robert Stern, *The World Economy*, 16(2), 193–211, March 1993, <https://doi.org/10.1111/j.1467-9701.1993.tb00162.x>.

**WORKING PAPERS**

"U.S.–Canada and U.S.–Mexico border crossing for trucks: 20 years after NAFTA," with Pilar Londoño-Kent, June 2014. In process.

"Using Annual Input-Output Accounts To Analyze the Evolution of the U.S. Economy," with Kyle Johnson, Robert Koopman, Marinos Tsigas, Julian Richards, Peter Dixon and Maureen Rimmer, April 2012, [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=3945](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=3945).

"On the scope for output-based rebating in climate policy: when revenue recycling isn't enough (or isn't possible)," with Carolyn Fischer, Resources for the Future Discussion Paper 10–69, December 2010, <http://www.rff.org/RFF/Documents/RFF-DP-10-69.pdf>.

"Combining rebates with carbon taxes: optimal strategies for coping with emissions leakage and tax interactions," with Carolyn Fischer, Resources for the Future Discussion Paper RFF DP 09-12, May 2009, <http://www.rff.org/RFF/Documents/RFF-DP-09-12.pdf>.

"Evaluating the success of a CGE model of the U.S.–Canada and North American Free Trade Agreements," GTAP Resource 1561, May 2004, [https://www.gtap.agecon.purdue.edu/res\\_display.asp?RecordID=1561](https://www.gtap.agecon.purdue.edu/res_display.asp?RecordID=1561).

"TSCAPE: A time series of consistent accounts for policy evaluation," with Edward Balistreri, USITC Working Paper 2003-05-A, May 2003, [http://hotocs.usitc.gov/docs/pubs/research\\_working\\_papers/EC200305A.pdf](http://hotocs.usitc.gov/docs/pubs/research_working_papers/EC200305A.pdf).

"Measuring border crossing costs and their impact on trade flows: the United States-Mexican trucking case," with Joseph Francois and Pilar Londoño-Kent, GTAP Resource 12182, May 2003, [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=1282](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=1282).

## WORKING PAPERS, CONTINUED

“Large scale CGE modeling at the U.S. International Trade Commission,” with Robert Koopman, Hugh Arce, and Edward Balistreri, GTAP Resource 1051, April 2002, [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=1051](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=1051).

“Incorporation of labor-leisure choice into a static general equilibrium model,” technical note, USITC, 2002.

## TRADE POLICY STUDIES

*American manufacturing competitiveness act: effects of temporary duty suspensions and reductions on the U.S. economy*, USITC Publication 4987, October 2019. Served as Lead Modeler, <https://www.usitc.gov/sites/default/files/publications/332/pub4987.pdf>.

*U.S.-UK Trade Agreement: advice on the probable economic effect of providing duty-free treatment for currently dutiable imports*, USITC Investigations TA-131-045 and TPA-105-006, June 2019. Served as lead modeler.

*U.S.-EU Trade Agreement: advice on the probable economic effect of providing duty-free treatment for currently dutiable imports*, USITC Investigations TA-131-044 and TPA-105-005, April 2019. Served as lead modeler.

*U.S.-Japan Trade Agreement: advice on the probable economic effect of providing duty-free treatment for currently dutiable imports*, USITC Investigations TA-131-043 and TPA-105-004, February 2019. Served as lead modeler.

*The Economic Effects of Significant U.S. Import Restraints, Ninth Update*, USITC Publication 4726, September 2017. Served as lead modeler, <https://www.usitc.gov/publications/332/pub4726.pdf>.

*Aluminum: competitive conditions affecting the U.S. industry*, USITC Publication 4703, June 2017. Served as Modeler, <https://www.usitc.gov/publications/332/pub4703.pdf>.

*Probable Economic Effect of Certain Modifications to the U.S.-Morocco FTA Rules of Origin*, USITC Publication 4662, January 2017. Served as Modeler, <https://www.usitc.gov/publications/332/pub4662.pdf>.

*Probable economic effect of certain modifications to the U.S.-Chile FTA rules of origin*, USITC Publication 4632, August 2016. Served as Lead Modeler, <https://www.usitc.gov/publications/332/pub4632.pdf>.

*Probable economic effects of certain modifications to the CAFTA-DR rules of origin*, USITC Publication 4613, May 2016. Served as Lead Modeler, <https://www.usitc.gov/sites/default/files/publications/332/pub4613.pdf>.

*Trans-Pacific Partnership Agreement: likely impact on the U.S. economy and on specific industry sectors*, USITC Publication 4607, May 2016. Served as Content Reviewer, <https://www.usitc.gov/sites/default/files/publications/332/pub4607.pdf>.

**TRADE POLICY STUDIES, CONTINUED**

*Rice: global competitiveness of the U.S. industry*, USITC Publication 4530, April 2015. Served as Lead Modeler, <http://www.usitc.gov/publications/332/pub4530.pdf>.

*The economic effects of significant U.S. import restraints, eighth update*, USITC Publication 4440, December 2013. Served as Lead Modeler, <http://www.usitc.gov/publications/332/pub4253.pdf>.

*Renewable energy and related services: recent developments*, USITC Publication 4421, September 2013. Served as Consulting Economist, <http://www.usitc.gov/publications/332/pub4421.pdf>.

*Environmental and related services*, USITC Publication 4389, March 2013. Served as Consulting Economist, <http://www.usitc.gov/publications/332/pub4389.pdf>.

*The economic effects of significant U.S. import restraints, seventh update*, USITC Publication 4253, August 2011. Served as Lead Modeler, <http://www.usitc.gov/publications/332/pub4253.pdf>.

*The effects of H.R. 2454 on international competitiveness and emission leakage in energy-intensive trade-exposed industries: an interagency report responding to a request from Senators Bayh, Specter, Stabenow, McCaskill, and Brown*, U.S. interagency report published by the Environmental Protection Agency, December 2009. Served as modeler for the report. <http://www.epa.gov/climatechange/Downloads/EPAactivities/InteragencyReport.Competitiveness-EmissionLeakage.pdf>.

*The economic effects of significant U.S. import restraints, sixth update*, USITC Publication 4094, August 2009. Served as Deputy Project Leader. <http://www.usitc.gov/publications/332/pub4094.pdf>.

*Caribbean region: review of economic growth and development*, USITC Publication 4000, May 2008. <http://www.usitc.gov/publications/332/pub4000.pdf>.

*U.S.–Korea Free Trade Agreement: potential economy-wide and selected sectoral effects*, USITC Publication 3949, September 2007. <http://www.usitc.gov/publications/pub3949.pdf>.

*The economic effects of significant U.S. import restraints, fifth update*, USITC Publication 3906, February 2007. Served as Project Leader. <http://www.usitc.gov/publications/332/pub3096.pdf>.

*The impact of trade agreements implemented under Trade Promotion Authority*, USITC Publication 3780, June 2005. Served as Deputy Project Leader. <http://www.usitc.gov/publications/332/pub3780.pdf>.

*The broad economic impact of port inefficiency: a comparative study of two ports*, with Paul E. Kent, Ph.D. Nathan Associates, Inc., for USAID, December 2004. [http://pdf.usaid.gov/pdf\\_docs/PNADC612.pdf](http://pdf.usaid.gov/pdf_docs/PNADC612.pdf).

*U.S.–Central America–Dominican Republic Free Trade Agreement: potential economywide and selected sectoral effects*, USITC Publication 3717, August 2004. <http://www.usitc.gov/publications/2104f/pub3717.pdf>.

## TRADE POLICY STUDIES, CONTINUED

*U.S.–Morocco Free Trade Agreement: potential economywide and selected sectoral effects*, USITC Publication 3704, June 2004. <http://www.usitc.gov/publications/332/pub3704.pdf>.

*Advice concerning possible modifications to the U.S. Generalized System of Preferences with respect to certain products imported from India*, USITC Publication 3397, February 2001. <http://www.usitc.gov/publications/332/pub3397.pdf>.

## PRESENTATIONS

*The economic effects of significant U.S. import restraints: fourth update*, USITC Publication 3701, June 2004. <http://www.usitc.gov/publications/332/pub3701.pdf>.

*U.S.–Australia FTA: potential economywide and selected sectoral effects*, USITC Publication 3697, May 2004. <http://www.usitc.gov/publications/332/pub3697.pdf>.

*The impact of trade agreements: effect of the Tokyo Round, U.S.–Israel FTA, U.S.–Canada FTA, NAFTA, and the Uruguay Round on the U.S. economy*, USITC Publication 3621, August 2003. <http://www.usitc.gov/publications/332/pub3621.pdf>.

*U.S.–Singapore Free Trade Agreement: potential economywide and selected sectoral effects*, USITC Publication 3603, June 2003. <http://www.usitc.gov/publications/332/pub3603.pdf>.

*U.S.–Australia Free Trade Agreement: advice concerning the probable economic effect*, USITC Investigations TA-131-24 and TA-2104-4, confidential report issued to requester, June 2003.

*U.S.–Central America Free Trade Agreement: advice concerning the probable economic effect*, USITC Investigations TA-131-22 TA-2104-2, confidential report issued to requester, December 2002.

*The economic effects of significant U.S. import restraints: third update*, USITC Publication 3519, June 2002. Served as Deputy Project Leader. <http://www.usitc.gov/publications/332/pub3519.pdf>.

*U.S.–Korea FTA: the economic impact of establishing a free trade agreement (FTA) between the United States and the Republic of Korea*, USITC Publication 3452, September 2001. Served as Deputy Project Leader. <http://www.usitc.gov/publications/332/pub3452.pdf>.

“Carbon leakage and competitiveness after Paris,” with Carolyn Fischer, presented at the World Congress of Environmental and Resource Economists (WCERE), Gothenburg, Sweden (June 26, 2018).

“How trade sensitive are energy-intensive sectors?” with Carolyn Fischer, presented at the Allied Social Science Associations (ASSA) annual meeting, Philadelphia, PA (January 5, 2018).

**PRESENTATIONS, CONTINUED**

“U.S.–Canada and U.S.–Mexico border crossing for trucks: 20 years after NAFTA,” with Pilar Londoño-Kent, invited paper at *NAFTA at 20: effects on the North American market*, Dallas Federal Reserve, Houston Branch, Houston, TX (June 5-6, 2014). Presented at the Inter-American Development Bank workshop, *Narrowing the Borders: Trade Facilitation in Latin America and the Caribbean*, December 7, 2015. Scheduled for presentation at 19th Annual Conference on Global Economic Analysis, Washington, DC (June 17, 2016).

“Climate policy and fiscal constraints: do tax interactions outweigh carbon leakage?” invited paper at SIPE 2012, Federal University of Viçosa, Viçosa, Brazil (October 17, 2012); at 2012 East-West Center–Korea Energy Economics Institute Experts Workshop on Energy And Climate Change Modeling, Seoul, South Korea (November 2, 2012); presented at IDE-JETRO workshop, *Tracing China’s CO2 emissions in global supply chains*, Tokyo (December 18, 2013); and at Waseda University, Tokyo (December 19, 2013).

“The U.S.–Mexican border crossing for trucks twenty years after NAFTA,” 16th Annual Conference on Global Economic Analysis, Shanghai, China (June 12, 2013).

“Using CGE models to analyze the interaction of trade and climate policy,” Energy Lecture Series, Johns Hopkins University School for Advanced International Studies, Washington, DC (September 19, 2011).

“On the scope for output-based rebating in climate policy: when revenue recycling isn’t enough (or isn’t possible),” invited paper at 16th World Congress of the International Economic Association, Beijing, China (July 5, 2011).

“Tax interactions and climate policy options,” with Carolyn Fischer, presented at the BCA Cross Comparison Exercise held at Statistics Norway, Oslo, Norway (November 17, 2011).

“The role of trade and competitiveness measures in U.S. climate Policy,” with Carolyn Fischer, presented at the ASSA annual meeting, Denver, CO (January 9, 2011).

“The effects of H.R. 2454 on production and trade in agriculture”, presented at the 2010 Summer Symposium, “Climate change in world agriculture: mitigation, adaptation, trade and food security”, of the International Agricultural Trade Research Consortium, Stuttgart, Germany (June 29, 2010).

“National and global CGE models: complementary tools for the analysis of climate change policy,” keynote presentation, *Workshop on Computable General Equilibrium Analysis*, Center for the Environment and Trade Research,, Sophia University, Tokyo, Japan (November 21, 2009).

“Using CGE models to analyze the interaction of trade and climate policy,” Energy Modeling Guest Lecture Series, Johns Hopkins University School for Advanced International Studies, Washington, DC (October 26, 2009).



**PRESENTATIONS, CONTINUED**

“The U.S.–Korea Free Trade Agreement: assessment and sensitivity,” with Robert Koopman, presented at the 2008 Summer Symposium, “Globalization and the rural-urban divide,” of the International Agricultural Trade Research Consortium, Seoul, Korea (July 1, 2008).

“When revenue recycling isn’t enough: permit allocation strategies to minimize intra- and international emissions leakage,” with Carolyn Fischer, presented at the 10th Annual Conference on Global Economic Analysis, W. Lafayette, IN (June 7, 2007), and at the ASSA annual meeting, Chicago, IL (January 5, 2007).

“Output-based allocation of emissions permits for mitigating tax and trade interactions”, seminar, Washington and Lee University, Lexington, VA (December 9, 2005).

“Why don’t foreign firms cooperate in antidumping investigations?: an empirical analysis”, seminar, George Washington University, Washington, DC (October 31, 2005).

“Minimizing carbon leakage under open trade: strategies for the allocation of pollution permits”, 8th Annual Conference on Global Economic Analysis, Lübeck, Germany (June 9-11, 2005).

“Output-based allocations of emissions permits: efficiency and distributional effects in a general equilibrium setting,” Western Economic Association, 79th Annual Conference, Vancouver, Canada (June 29-July 3, 2004).

“Evaluating the success of a CGE Model of the U.S.–Canada and North American Free Trade Agreements,” 7th Annual Conference on Global Economic Analysis, Washington, DC (June 17-19, 2004); at the Empirical Trade Analysis Conference: Strengthening Analytical Capabilities to Support Trade Negotiations, Woodrow Wilson Center, Washington, DC (January 2004); and at the European Trade Study Group Fifth Annual Conference, Madrid (September 2003).

“Measuring border costs and their impact on trade flows: The United States-Mexican trucking case,” Sixth Annual Conference on Global Economic Analysis, The Hague (June 2003).

“TSCAPE: a time series of consistent accounts for policy evaluation,” Sixth Annual Conference on Global Economic Analysis, The Hague (June 2003).

“Incorporation of labor-leisure choice into a static general equilibrium model,” Fifth Annual Conference on Global Economic Analysis, Taipei (June 2002).

“Output-based allocations of emissions permits: efficiency and distributional effects in a general equilibrium setting,” Fifth Annual Conference on Global Economic Analysis, Taipei (June 2002).

“Evaluating the success of a CGE Model of the Canada-U.S. Free Trade Agreement,” Second Annual Conference on Global Economic Analysis, Denmark (June, 1999).

## FELLOWSHIPS AND AWARDS

### Summer Research Fellowship

1992, 1993

Stipends to support summer research.

University of Michigan  
Ann Arbor, MI

### Swiss Universities Grant

1989–1990

Tuition waiver and monthly stipend for independent study in macroeconomics with Prof. Bernard Schmitt.

University of Fribourg  
Fribourg, Switzerland

## OTHER

Referee since 2014 for *Climate Change Economics*, *Economic Inquiry*, *Economic Modelling*, *Environmental and Resource Economics*, *Journal of Environmental Economics and Management*, *Journal of Public Economics*, *Resource and Energy Economics*, and *Utilities Policy*.

Member, American Economic Association and Association of Environmental and Resource Economists.

Proficient in French and German; basic skills in Spanish and Dutch.

## REFERENCES

Prof. Rodney D. Ludema  
Department of Economics  
Georgetown University  
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Prof. Carolyn Fischer  
School of Business and Economics  
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Prof. Alan V. Deardorff  
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International Economics  
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