

Epistemic Modals and Conditionals Revisited  
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As I say in this talk, I learned virtually everything I needed to know in graduate school from my teachers here at UMass. The rest is just dotting the i's and crossing the t's, which is what I have been trying to do over the years. There are strong connections to my talk on "Indicative Conditionals" in Prague 1998. There are even older roots in a conversation with Sabine Iatridou in 1992, which many years later resulted in our paper on "Epistemic Containment". Throughout our work on that paper, I kept resisting the very idea that I explore here in Part 3 (brought up a number of times by Sabine and also by Irene Heim and Angelika Kratzer). An initial re-assessment was presented in a talk called "The Meanings of Epistemic Modality" at *Sinn und Bedeutung 7* in Konstanz, October 2002. Chris Potts gave some valuable feedback via email in March 2003. My students in a Spring 2003 undergraduate seminar at MIT on evidentiality helped me think through some of these issues, as did the participants in my Fall 2003 pragmatics class at MIT (with particular thanks to Steve Yablo). Thanks also to the audience of my talk "Layers in the Meaning of Conditionals (?)" at the ESSLI Workshop on Conditional and Unconditional Modality in Vienna, August 2003, especially Hans Kamp, Stefan Kaufmann, Paul Portner, and Frank Veltman. Conversations with Thony Gillies over hot chocolate at Burdick's were enjoyable and helpful. Thanks to Anna Papafragou, Andy Egan, John Hawthorne, Brian Weatherson, John MacFarlane, and others for sharing their work in progress publicly on the web. Since this is itself still work in progress, I have not yet figured out who to blame for defects.

## Bibliography

- [1] BENNETT, Jonathan: 2003. *A Philosophical Guide to Conditionals*. Oxford University Press.
- [2] CATON, Charles (Editor) : 1963. *Philosophy and Ordinary Language*. University of Illinois Press.
- [3] DEROSE, Keith: 1991. "Epistemic Possibilities." *The Philosophical Review*, 100(4): 581–605. URL <http://links.jstor.org/sici?sici=0031-8108%28199110%29100%3A4%3C581%3AEP%3E2.o.CO%3B2-4>.
- [4] DEROSE, Keith: 1998. "Simple *might*'s, Indicative Possibilities and the Open Future." *Philosophical Quarterly*, 48(190): 67–82. URL [http://www.calvin.edu/academic/philosophy/virtual\\_library/articles/derose\\_keith/simple\\_mights\\_indicative\\_possibilities\\_and\\_the\\_open\\_future.pdf](http://www.calvin.edu/academic/philosophy/virtual_library/articles/derose_keith/simple_mights_indicative_possibilities_and_the_open_future.pdf).

- [5] DE ROSE, Keith & GRANDY, Richard E.: 1999. "Conditional Assertions and 'Biscuit' Conditionals." *Noûs*, 33(3): 405–420.
- [6] DRUBIG, Hans Bernhard: 2001. "On the Syntactic Form of Epistemic Modality." URL <http://www.sfb441.uni-tuebingen.de/b2/papers/DrubigModality.pdf>. Universität Tübingen.
- [7] EDGINGTON, Dorothy: 1995. "On Conditionals." *Mind*, 104: 235–329.
- [8] EGAN, Andy, HAWTHORNE, John, & WEATHERSON, Brian: 2003. "Epistemic Modals in Context." URL <http://www.brown.edu/Departments/Philosophy/homepages/weatherson/em.pdf>.
- [9] FALLER, Martina: 2002. *Semantics and Pragmatics of Evidentials in Cuzco Quechua*. Ph.D. thesis, Stanford. URL <http://www.mpi.nl/world/persons/profession/marfal.html>.
- [10] VON FINTEL, Kai: 1998. "Indicative Conditionals in a Dynamic Context." URL <http://web.mit.edu/fintel/www/indicatives-prague.pdf>. Handout for an invited talk at the Conference on Bridges and Interfaces: Function, Meaning, and Structure at the Charles University Prague, March 1998.
- [11] VON FINTEL, Kai: 2003. "Layers in the Meaning of Conditionals(?)." URL <http://web.mit.edu/fintel/www/vienna-slides.pdf>. Slideshow from invited lecture at ESSLLI Workshop on Conditional and Unconditional Modality, Vienna, August 28, 2003.
- [12] VON FINTEL, Kai & IATRIDOU, Sabine: 2002. "The Meanings of Epistemic Modality." URL <http://web.mit.edu/fintel/www/ks-sub7-handout.pdf>. Handout for an invited talk given at *Sinn und Bedeutung 7* at the University of Konstanz.
- [13] VON FINTEL, Kai & IATRIDOU, Sabine: 2003. "Epistemic Containment." *Linguistic Inquiry*, 34(2): 173–198. doi:10.1162/002438903321663370. Offprint: <http://web.mit.edu/fintel/www/ec.pdf>.
- [14] GIBBARD, Alan: 1981. "Two Recent Theories of Conditionals." In William Harper, Robert Stalnaker, & Glenn Pearce (Editors) *Ifs: Conditionals, Belief, Decision, Chance, and Time*, pages 211–247. Dordrecht: Reidel.
- [15] GILLIES, Anthony S.: 2001. "A New Solution to Moore's Paradox." *Philosophical Studies*, 105: 237–250. doi:10.1023/A:1010361708803. URL <http://www.people.fas.harvard.edu/~gillies/moore.pdf>.
- [16] GREEN, M. S.: 2000. "Illocutionary force and semantic content." *Linguistics & Philosophy*, 23(5): 435–473. doi:10.1023/A:1005642421177. Preprint <http://www.people.virginia.edu/~msg6m/efandc.pdf>.

- [17] GREEN, Mitchell S.: 2003. “Grice’s Frown: On Meaning and Expression.” In G. Meggle & C. Plunze (Editors) *Saying, Meaning, Implicating*, pages 200–219. Univ. of Leipzig Press. Preprint <http://www.people.virginia.edu/~msg6m/gricesfrown.pdf>.
- [18] HACKING, Ian: 1967. “Possibility.” *The Philosophical Review*, 76(2): 143–168. URL <http://links.jstor.org/sici?sici=0031-8108%28196704%2976%3A2%3C143%3AP%3E2.o.CO%3B2-2>.
- [19] HALLIDAY, Michael: 1970. “Functional Diversity in Language as Seen from a Consideration of Modality and Mood in English.” *Foundations of Language*, 6: 322–361.
- [20] HAWTHORNE, John: forthcoming. *Knowledge and Lotteries*. Oxford University Press. Preprint of Chapter 1 available at <http://www.sims.berkeley.edu/~kahern/hawthorne/IntroducingThePuzzle.htm>.
- [21] HUDDLESTON, Rodney & PULLUM, Geoffrey K.: 2002. *The Cambridge Grammar of the English Language*. Cambridge University Press. URL <http://books.cambridge.org/0521431468.htm>.
- [22] KAPLAN, David: 1999. “The Meaning of *Ouch* and *Oops*: Explorations in the Theory of Meaning as Use.” (Talk Length Version – Draft #3).
- [23] KRATZER, Angelika: 1977. “What *Must* and *Can Must* and *Can Mean*.” *Linguistics & Philosophy*, 1: 337–355.
- [24] KRATZER, Angelika: 1978. *Semantik der Rede: Kontexttheorie - Modalwörter - Konditionalsätze*. Königstein/Taunus: Scriptor.
- [25] KRATZER, Angelika: 1981. “The Notional Category of Modality.” In H. J. Eikmeyer & H. Rieser (Editors) *Words, Worlds, and Contexts. New Approaches in Word Semantics*, pages 38–74. de Gruyter. Reprinted in Portner & Partee [34], 289–323.
- [26] KRATZER, Angelika: 1986. “Conditionals.” *Chicago Linguistics Society*, 22(2): 1–15. Reprinted in [39], pages 651–656.
- [27] KRATZER, Angelika: 1991. “Modality.” In [39], pages 639–650.
- [28] KRIFKA, Manfred: 2001. “Quantifying into Question Acts.” *Natural Language Semantics*, 9(1): 1–40. doi:10.1023/A:1017903702063. Preprint <http://amor.rz.hu-berlin.de/h281613x/QuestActsNatLang.pdf>.
- [29] LEWIS, David: 1976. “Probabilities of Conditionals and Conditional Probabilities.” *Philosophical Review*, 85: 297–315.
- [30] LYCAN, William G.: 2001. *Real Conditionals*. Oxford: Clarendon Press.
- [31] MACFARLANE, John: 2003. “Epistemic Modalities and Relative Truth.” URL <http://socrates.berkeley.edu/~jmacf/epistmod.pdf>.

- [32] PALMER, Frank Robert: 1986. *Mood and Modality*. Cambridge University Press.
- [33] PAPAFRAGOU, Anna: 2003. “Epistemic Modality and Truth Conditions.” URL <http://www.cis.upenn.edu/~anna4/papers/epmodtruth.pdf>. To appear in A. Klinge & H. Müller (eds.), *Perspectives on Modality* (provisional title). Amsterdam: Benjamins.
- [34] PORTNER, Paul & PARTEE, Barbara H. (Editors) : 2002. *Formal Semantics: The Essential Readings*. Blackwell.
- [35] POTTS, Christopher: 2003. “Conventional Implicatures: A Distinguished Class of Meanings.” To appear in Gillian Ramchand and Charles Reiss, eds., *The Oxford Handbook of Linguistic Interfaces*. Oxford University Press.
- [36] POTTS, Christopher: 2003. *The Logic of Conventional Implicature*. Ph.D. thesis, University of California, Santa Cruz. URL <http://www-unix.oit.umass.edu/~potts/potts-dissertation-2up.pdf>.
- [37] VAN ROOY, Robert: 1999. “Gibbard’s Problem: The Context Dependence of Conditional Statements.” URL <http://staff.science.uva.nl/~vanrooy/Gibbard.ps>. Dutch-German workshop on non-monotonic reasoning, Amsterdam ’99.
- [38] STALNAKER, Robert: 1975. “Indicative Conditionals.” *Philosophia*, 5: 269–286.
- [39] VON STECHOW, Arnim & WUNDERLICH, Dieter (Editors) : 1991. *Semantics: An International Handbook of Contemporary Research*. de Gruyter.
- [40] STENIUS, E.: 1967. “Mood and Language Game.” *Synthese*, 17: 254–274.
- [41] TELLER, Paul: 1972. “Epistemic Possibility.” *Philosophia*, 2: 302–320.
- [42] URMSON, J.O.: 1952. “Parenthetical Verbs.” *Mind*, 61: 192–212. Reprinted in Caton [2], pp. 220–240.
- [43] WARMBROD, Ken: 1983. “Epistemic Conditionals.” *Pacific Philosophical Quarterly*, 64: 249–265.
- [44] WITTGENSTEIN, Ludwig: 1958. *Philosophische Untersuchungen*. Blackwell.
- [45] WOODS, Michael: 1997. *Conditionals*. Oxford University Press. Edited by David Wiggins, with a Commentary by Dorothy Edgington.
- [46] ZEEVAT, Henk: 2003. “The Syntax Semantics Interface of Speech Act Markers.” In *Proceedings Diabrock, 7th Workshop on the Semantics and the Pragmatics of Dialogue, Wallerfangen*. URL [http://www.coli.uni-sb.de/diabrock/submission\\_finals/papers/137/paper\\_137.ps](http://www.coli.uni-sb.de/diabrock/submission_finals/papers/137/paper_137.ps).