

## TIME

### **Recommended Readings:**

Aristotle, *De Interpretatione*, in Aristotle, *The Complete Works of Aristotle*, Princeton University Press, 1984.

Physics, in Aristotle, *The Complete Works of Aristotle*, Princeton University Press, 1984.

Bigelow, John, 1996, "Presentism and Properties," in James Tomberlin (ed.), *Philosophical Perspectives* (Volume 10: Metaphysics), Oxford: Blackwell, pp. 35-52.

Carroll, John W. and Ned Markosian, *An Introduction to Metaphysics*. Cambridge University Press, 2010.

- This introductory, undergraduate metaphysics textbook contains an excellent chapter introducing the metaphysical issues involving time, beginning with the McTaggart controversy.

Hausheer, Herman. "St. Augustine's Conception of Time." *The Philosophical Review*, vol. 46, no. 5, 1937, pp. 503-512.

Hawking, Stephen. *A Brief History of Time*, Updated and Expanded Tenth Anniversary Edition, Bantam Books, 1996.

- A leading theoretical physicist provides introductory chapters on space and time, black holes, the origin and fate of the universe, the arrow of time, and time travel. Hawking suggests that perhaps our universe originally had four space dimensions and no time dimension, and time came into existence when one of the space dimensions evolved into a time dimension. He calls this space dimension "imaginary time."

Husserl, Edmund. *On the Phenomenology of the Consciousness of Internal Time*. Translated by J. B. Brough. Originally published 1893-1917. Dordrecht: Kluwer Academic Publishers, 1991.

The father of phenomenology discusses internal time consciousness. McTaggart, J. M. E. *The Nature of Existence*, Cambridge University Press, 1927.

- Chapter 33 restates more clearly the arguments that McTaggart presented in 1908 for his A series and B series and how they should be understood to show that time is unreal. Difficult reading. The argument that a single event is in the past, is present, and will be future yet it is inconsistent for an event to have more than one of these properties is called "McTaggart's Paradox." The chapter is renamed "The Unreality of Time," and is reprinted on pp. 23-59 of (Le Poidevin and MacBeath 1993).

Oxford Studies in Metaphysics, volume 7 Edited by Karen Bennett and Dean W. Zimmerman, 2012

Putnam, Hilary. "Time and Physical Geometry," *The Journal of Philosophy*, 64 (1967), pp. 240-246.

- Comments on whether Aristotle is a presentist and why Aristotle was wrong if Relativity is right.

Russell, Bertrand. "On the Experience of Time," *Monist*, 25 (1915), pp. 212-233.

- The classical tenseless theory.

Russell, Bertrand. *A History of Western Philosophy*. New York: Simon and Schuster, 1967.

- Various entries on time, vide index, ideal for an overview.

The Oxford Handbook of Philosophy of Time; edited by Craig Callender, OUP, 2011

Thorne, Kip S., 1994, *Black Holes and Time Warps*, New York: W.W. Norton.

Von Leyden, W. "Time, Number, and Eternity in Plato and Aristotle." *The Philosophical Quarterly* (1950-), vol. 14, no. 54, 1964, pp. 35-52.

**Internet Resources:**

Stanford Encyclopedia of Philosophy: Time <https://plato.stanford.edu/entries/time>

Internet Encyclopedia of Philosophy: Time [www.iep.utm.edu/time](http://www.iep.utm.edu/time)