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Facets of Entropy

I will discuss and compare several ways in which the word entropy is used and the confusion that is sometimes generated. For example, to what extent is entropy well-defined outside of equilibrium and what does it mean for systems that have no thermodynamic limit? Does statistical mechanics define the concept and does it have an independent meaning outside of the self-referential concepts temperature and heat? A simple definition of entropy for macroscopic systems by Jakob Yngvason and myself that makes no mention of heat, temperature, and Carnot cycles will be described briefly.