

'Inference' (pub. 20.10.15-17:53). Quote in M. Bergman & S. Paavola (Eds.), *The Commens Dictionary: Peirce's Terms in His Own Words. New Edition*. Retrieved from <http://www.commens.org/dictionary/entry/quote-algebra-logic-3>.

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**Term:** Inference

**Quote:** A cerebral habit of the highest kind, which will determine what we do in fancy as well as what we do in action, is called a *belief*. The representation to ourselves that we have a specified habit of this kind is called a *judgment*. A belief-habit in its development begins by being vague, special, and meagre; it becomes more precise, general, and full, without limit. The process of this development, so far as it takes place in the imagination, is called *thought*. A judgment is formed; and under the influence of a belief-habit this gives rise to a new judgment, indicating an addition to belief. Such a process is called an *inference*; the antecedent judgment is called the *premise*; the consequent judgment, the *conclusion*; the habit of thought, which determined the passage from the one to the other (when formulated as a proposition), *the leading principle*.

**Source:** Peirce, C. S. (1880). On the Algebra of Logic. *American Journal of Mathematics*, 3, 15-57.

**References:** W 4:164; CP 3.160

**Date of** 1880

**Quote:**

**URL:** <http://www.commens.org/dictionary/entry/quote-algebra-logic-3>