

'Induction' (pub. 30.01.13-19:20). 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-deduction-induction-and-hypothesis-3>.

Term: Induction

Quote: ... So that induction is the inference of the *rule* from the *case* and *result*. But this is not the only way of inverting a deductive syllogism so as to produce a synthetic inference. [—] We have, then—

DEDUCTION.

Rule.—All the beans from this bag are white.

Case.—These beans are from this bag.

∴Result.—These beans are white.

INDUCTION.

Case.—These beans are from this bag.

Result.—These beans are white.

∴Rule.—All the beans from this bag are white

HYPOTHESIS.

Rule.—All the beans from this bag are white.

Result.—These beans are white.

∴Case.—These beans are from this bag.

We, accordingly, classify all inference as follows:

Inference.

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Deductive or Analytic. Synthetic.

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Induction. Hypothesis.

Induction is where we generalize from a number of cases of which something is true, and infer that the same thing is true of a whole class. Or, where we find a certain thing to be true of a certain proportion of cases and infer that it is true of the same proportion of the whole class.

Source: Peirce, C. S. (1878). Deduction, Induction, and Hypothesis. *Popular Science Monthly*, 13, 470-482.

References: CP 2.623

Date of 1878

Quote:

URL: <http://www.commens.org/dictionary/entry/quote-deduction-induction-and-hypot>

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