

## Reading Assignment 12: Leibniz's Logic

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### REQUIRED READINGS

- “Preface to a universal characteristic” and “Samples of the Numerical Characteristic.” Pages 5-18 of Leibniz 1969.
- “A Study in the Early Logical Calculus.” Pages 371-373 of Leibniz 1969.

### QUESTIONS

1. What are the two terms of any categorical judgment according to Leibniz? Give your own example of such a judgment and state what the two terms in the judgment are.
2. Give your own examples of how characteristic numbers can be used to assess whether a categorical judgment is true or false.
3. What is conversion? Explain why Leibniz's use of characteristic numbers can be used to prove that a universal negative is convertible.
4. What does  $\oplus$  represent? Give your own example of an English sentence summarizing what the formal sentence  $B \oplus N \infty L$  might represent.

### REFERENCES

- [1] G. W. Leibniz. “Gottfried Wilhelm Leibniz: philosophical papers and letters”. In: (1969). Ed. by L. E. Loemker.