

# Friendship Paradox

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**Abstract** We introduce a paradox, which we named it "Friendship Paradox": "EVERY lady chooses less attractive lady as a friend. If so, why opposite, those less attractive lady is a friend of those more attractive lady? Contradiction."

## Introduction

As it is well known, a paradox is a logically self-contradictory statement or a statement that runs contrary to one's expectation. It is a statement that, despite apparently valid reasoning from true or apparently true premises, leads to seemingly self-contradictory or a logically unacceptable conclusion.

W. V. O. Quine [3] distinguished between three classes of paradoxes:

Veridical paradoxes, Falsidical paradoxes and Antinomy.

Frank Ramsey drew a distinction between logical paradoxes and semantic paradoxes [1, 2].

## Friendship Paradox

We are going to introduce the following paradox: "EVERY lady chooses less attractive lady as a friend. If so, why opposite, those less attractive lady is a friend of those more attractive lady? Contradiction."

## References

- [1] Cantini, A., Bruni, R., *Paradoxes and Contemporary Logic*, Stanford University, 2021.
- [2] MacBride, F., Marion, M., Frapolli, M., J., Edgington, D., Elliot, E., Lutz, S., Paris, J., *Frank Ramsey*, Stanford University, 2020.
- [3] Quine, W. V., *The ways of Paradox and Other Essays*, Harvard University Press, 1976.