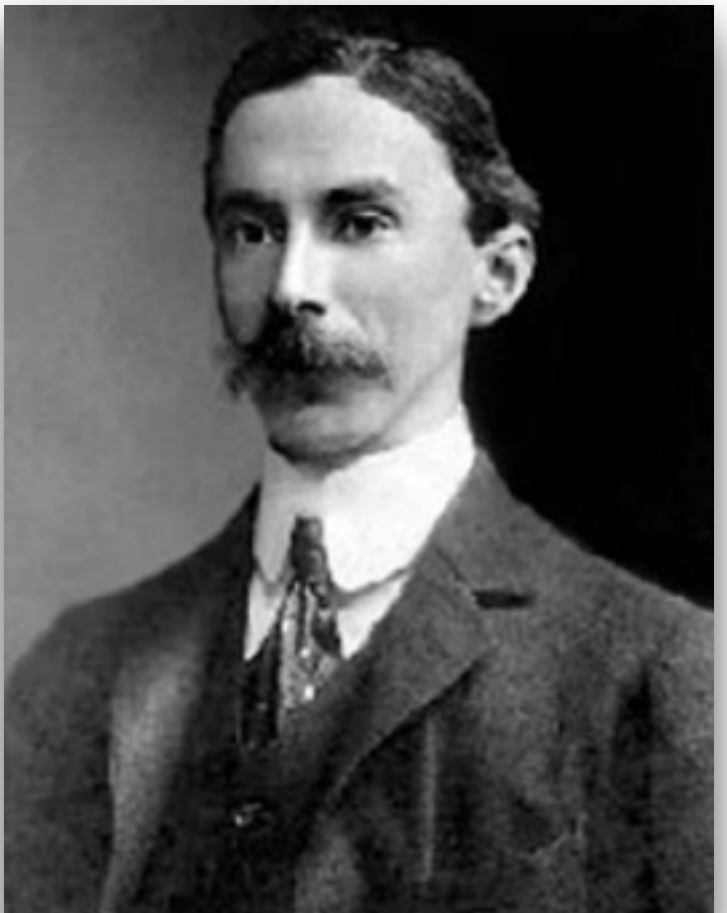
What is a set?



Russell's Paradox

Suppose a town's barber shaves every man who doesn't shave himself.

Who shaves the Barber?

Consider the set S of all sets which do not contain themselves.

Does S contain itself?

What is a set?

- difficult to formally define sets: *what is the set of all sets?*

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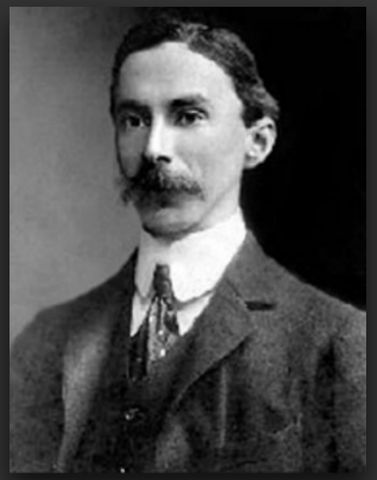

set notation