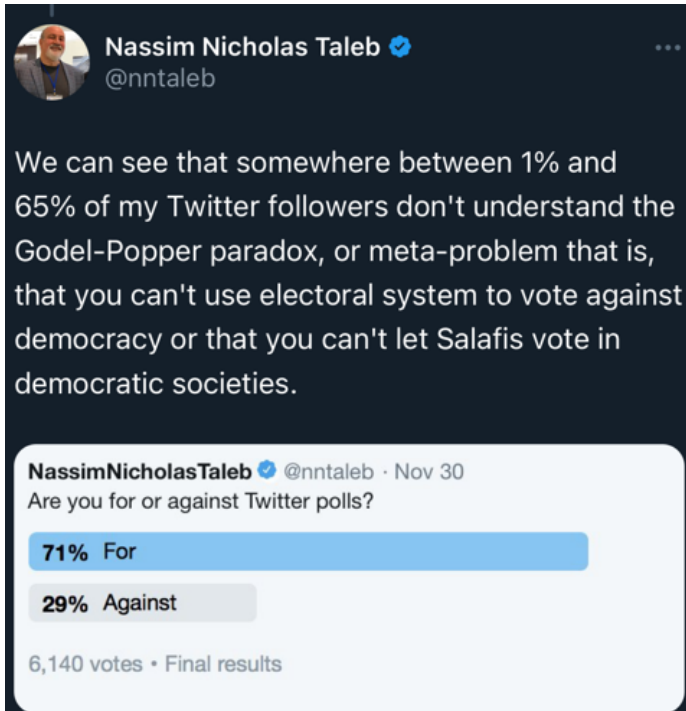


# Error Bound



John, refreshing to have a physicist.

The rule of thumb: if a metric explains less than 1- x% of the variance, it is not a metric. In physics the x can be as low as  $10^{14}$ . In engineering, often  $<10^5$ .

In psychology often  $>75\%$  of the variations come from variance.