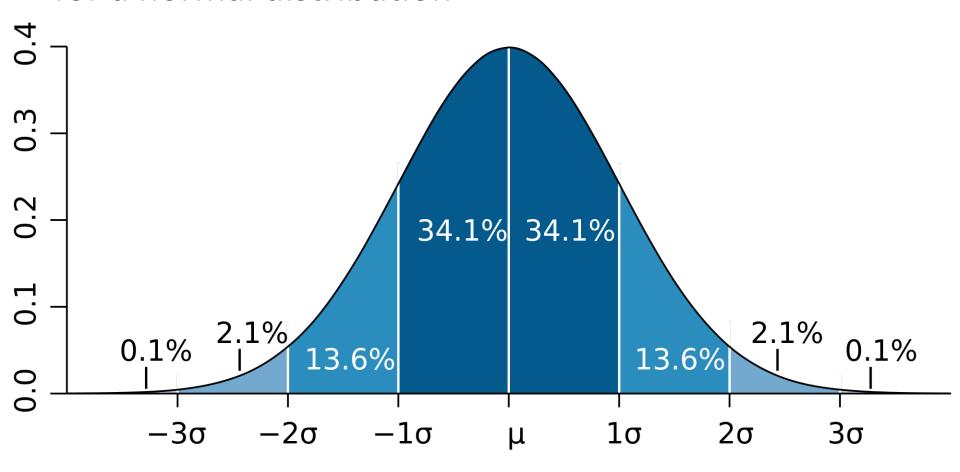
Meaning of a Standard Deviation (one sigma)

- From Wikipedia
- 68% of the time, you will be within one sigma of mean for a normal distribution



Is this stuff Right?

- There are two types of corrections to "rule of thumb" that "everything pretty large" is distributed according to Gaussian distribution and for N events, the error is VN
- a) There are "mathematical" corrections as rule of thumb only correct "asymptotically"
 - See results for 40000 counters of 25 the observed counts are larger than prediction of Gaussian when you are in tail above mean
 - Easy to correct as exact distributions known. Not very important
- b) Biases. If you counted results of a survey on Indiana politics based on people in Bloomington, this is not representative of state and your results will be biased (i.e. wrong)

