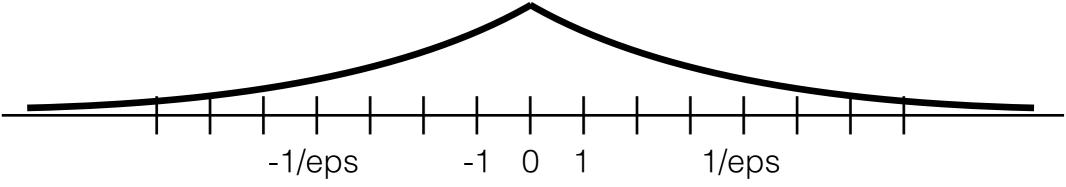
An example: counting

Let M(A): how many records in A voted "badly"





... plus Laplace(1/eps) noise.



Probability drops by e every 1/eps units.

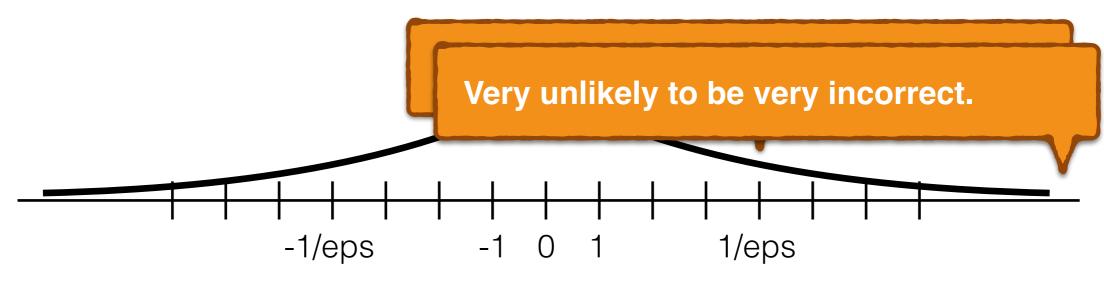


(called the "Laplace mechanism")

An example: counting

Differentially private

Let M(A): how many records in A voted "badly" ... plus Laplace(1/eps) noise.



(called the "Laplace mechanism")

An example: choosing

Let M(A): Choose output S with maximizing some fn happy(A, S).