



Standard Deviation

1 Why

TODO

2 Definition

The *standard deviation* of an integrable real-valued random variable is the square root of its variance.

2.1 Notation

Let f be an integrable real-valued random variable. Denote the standard deviation of f by $\mathbf{std}(f)$. We have defined it

$$\mathbf{std}(f) = \sqrt{\mathbf{var}(f)}.$$