



## STANDARD DEVIATION

### Why

TODO

### Definition

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

### Notation

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

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

