

## EVENT INDEPENDENCE

## Why

todo

## **Definition**

Two events are *independent* if the probability of their intersection is the product of their respective probabilities.

## **Definition**

Let  $\mathbf{P}$  be an event probability function with set of outcomes A. Then the events B and C are independent if

$$\mathbf{P}(B \cap C) = \mathbf{P}(B)\mathbf{P}(C).$$

