



Definitions of Independence
proof of equivalence:

$$Pr[A] = Pr[A | B]$$
 iff
 $Pr[A] = \frac{Pr[A \cap B]}{Pr[B]}$ iff
 $Pr[A] \cdot Pr[B] = Pr[A \cap B]$

Definitions of Independence need Pr[B] ≠ 0 for Def. 1. Def. 2 always works: Pr[A}·Pr[B] = Pr[A∩B]











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Independence

A independent of B means A is independent of whether or not B occurs:

May 3, 2013

indep-events.10

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