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*Stochastic process - Wikipedia*

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*Randomness - Wikipedia*

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chapters develop probability theory and introduce the axioms of probability, random variables, and joint distributions. The following two chapters are shorter and of an "introduction to" nature: Chapter 4 on limit theorems and Chapter 5 on simulation. Statistical inference is treated in Chapter 6, which includes a section on Bayesian v

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That is, the change of  $X_t$  is random. STAT304 Applied Probability and Financial Risk – p. 2/34 Random Walk Usually, it always assume that  $E(\Delta X_t) = 0$  and  $\text{var}(\Delta X_t) = \sigma^2$ . It can show that the mean of a random walk process is constant if  $E(\Delta X_t) = 0$ , but its variance is not. The variance increases with  $t$  Therefore, a random walk process is ...

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