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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 $E(\epsilon_t) = 0$ and $\text{var}(\epsilon_t) = \sigma^2$. It can show that the mean of a random walk process is constant if $E(\epsilon_t) = 0$, but its variance is not. The variance increases with t Therefore, a random walk process is ...

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