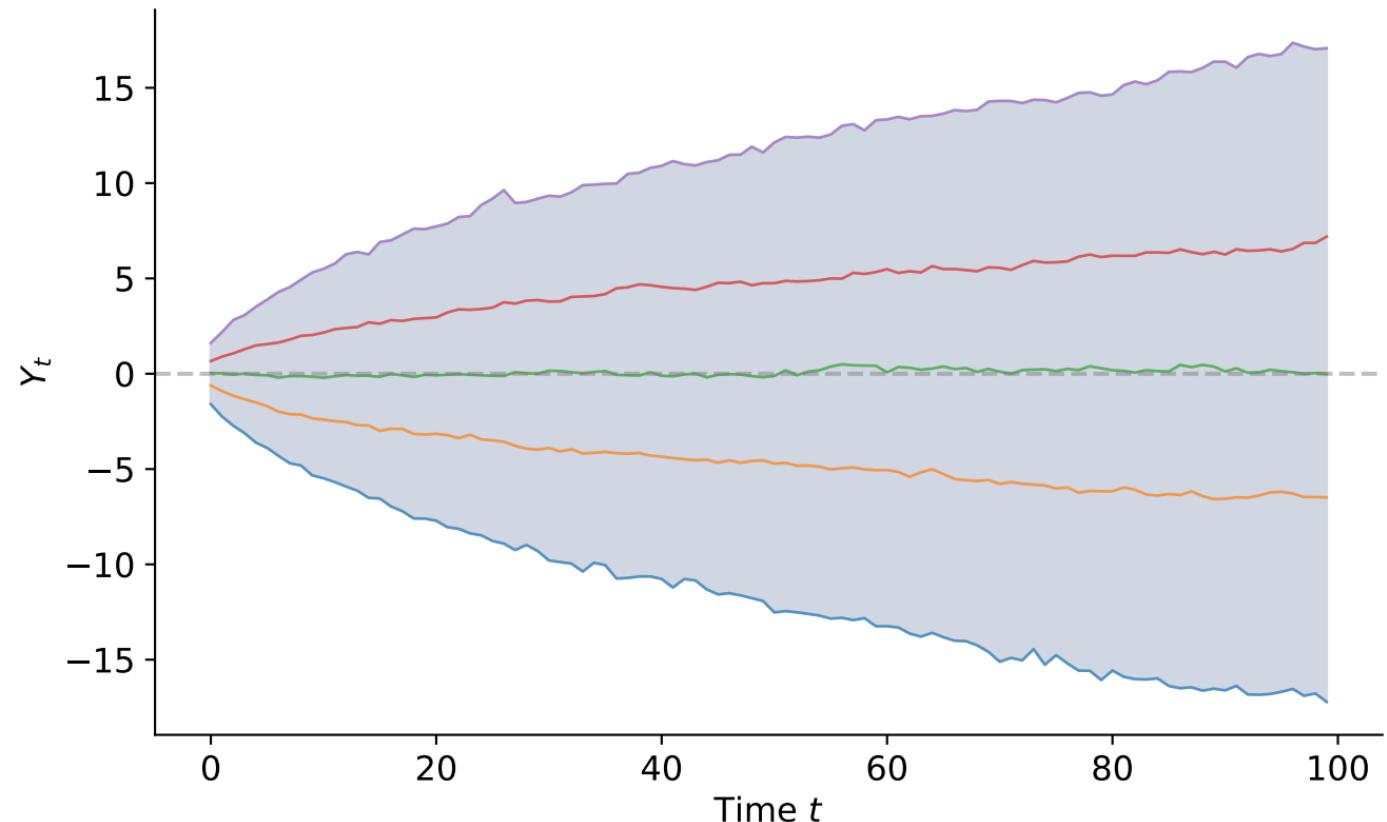
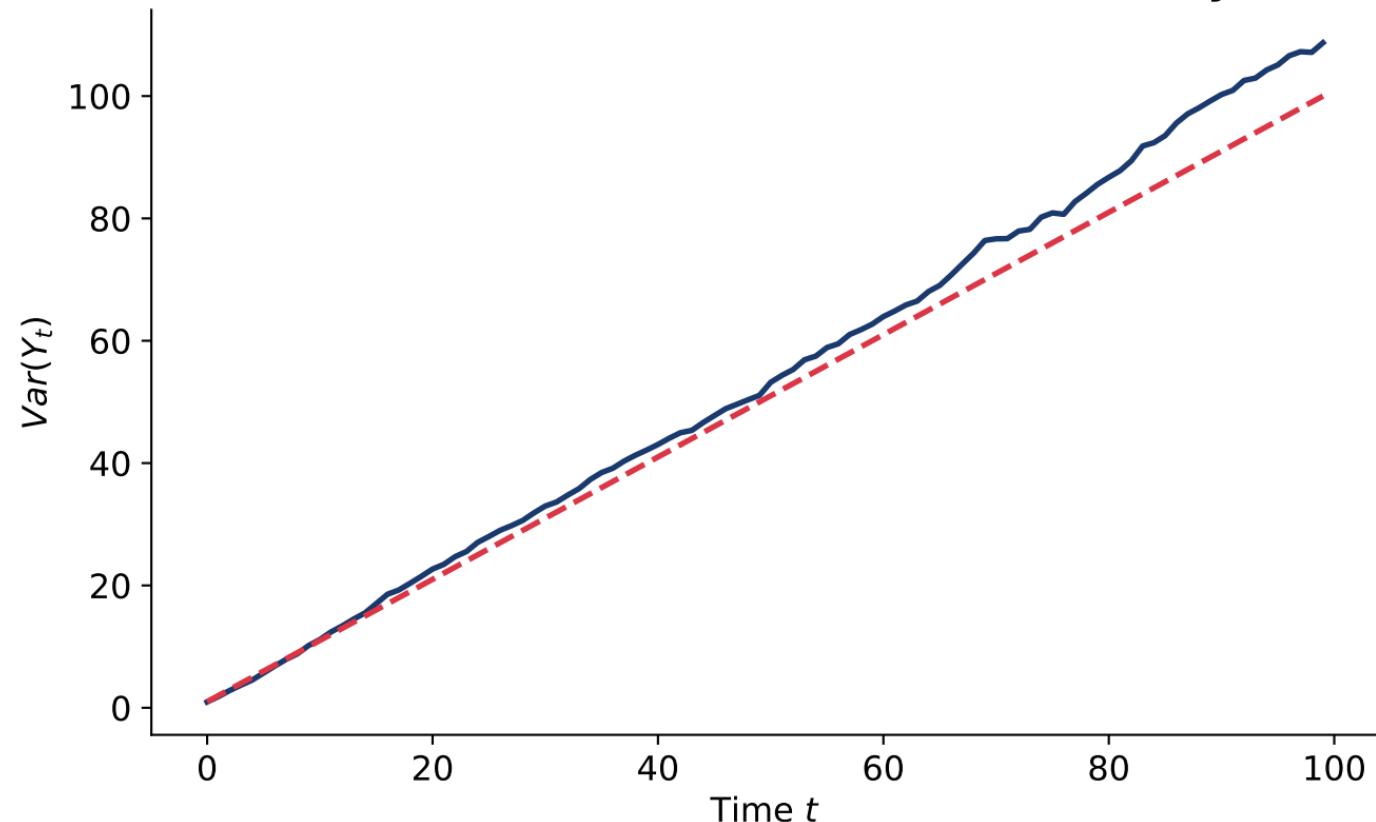


Random Walk Paths: Variance Grows Over Time



Variance of Random Walk Grows Linearly



— Sample Variance - - - Theoretical: $\text{Var}(Y_t) = t\sigma^2$