

Figure 5.1 A 1000-step random walk produced by the randomWalk function.

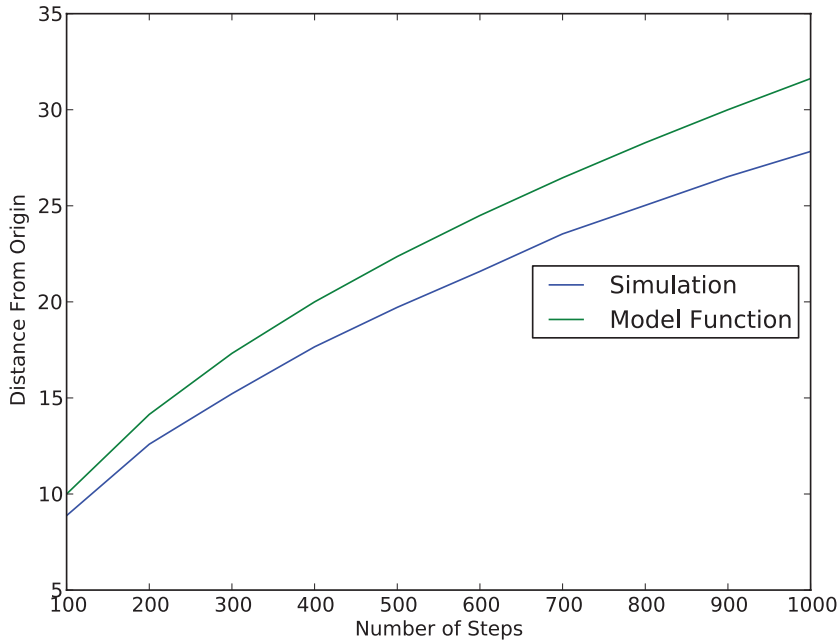


Figure 5.2 Plot generated by plotDistances(1000, 10000) with a comparison to the square root function.

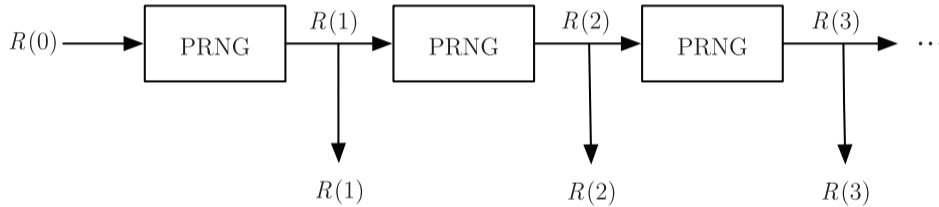


Figure 5.3 An illustration of the operation of a simple PRNG.

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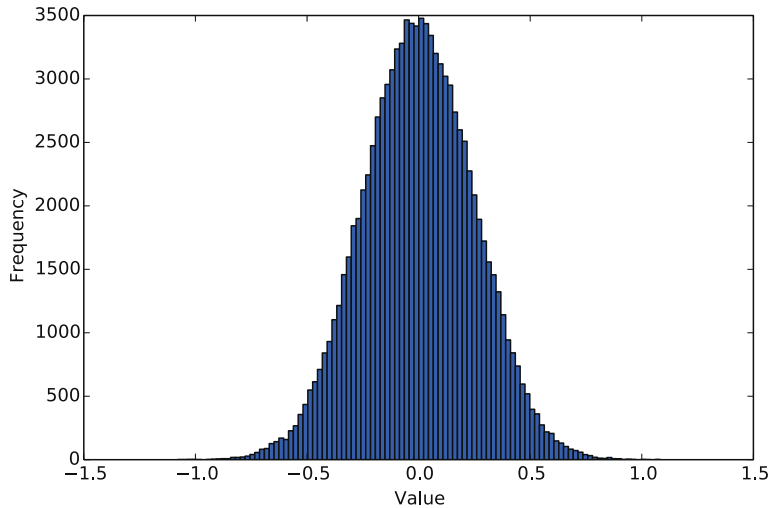
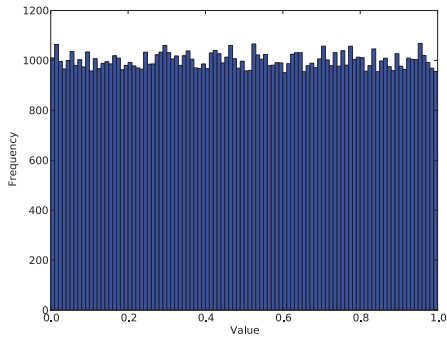
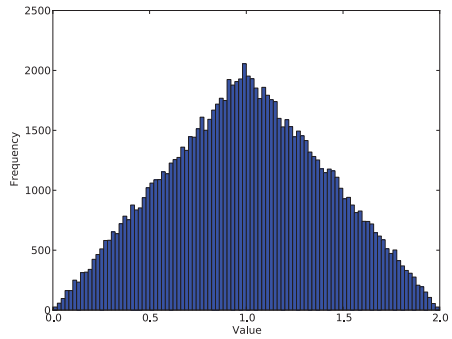


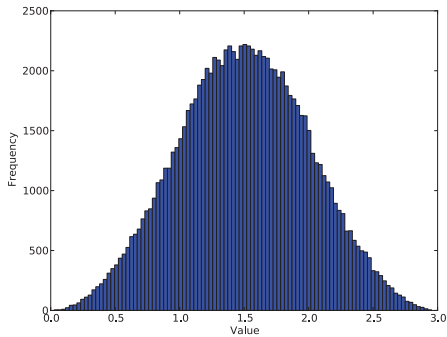
Figure 5.4 A histogram of 100,000 samples from `random.gauss(0, 0.25)`.



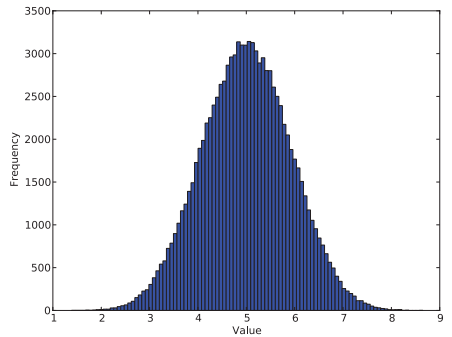
$n = 1$



$n = 2$



$n = 3$



$n = 10$

Figure 5.5 Results of sumRandomHist(n , 100000) with $n = 1, 2, 3, 10$.