

**Kyle Siegrist: How to Gamble if You Must**  
 (maa.org/joma/volume8/siegrist/redblack.pdf)

Some errata:

Page	Correction
5	Definition of $f(x, a)$ should be $\mathbb{P}(X_n = a   X_0 = x)$
5	Exercise 5 should be $(b) f(0, a) = 0, f(a, a) = 1$
5	Exercise 7 solution should be $f(x, a) = \frac{1 - \left(\frac{q}{p}\right)^x}{1 - \left(\frac{q}{p}\right)^a}$
6	Exercise 10 is correct assuming the correction is made in Exercise 7.
7	Exercise 13 is correct assuming the correction is made in Exercise 7.
10	$d(x)$ is defined on $[0,1)$ , not $[0,1]$
11	<i>Binary rational</i> should be of the form $\frac{k}{2^n}$
11	This is not a mistake but, just to be clear, a <i>binary irrational</i> is a (rational or irrational) number that is not a <i>binary rational</i> .