

LOGISTIC EQUATION

difference equation (discrete) $N_{t+1} = r_{difference} N_t (K - N_t)$

solution numerical analysis

yogurt if unlimited, then oodles after one day, drops after two ... !

 $N_{t+1} = r_{difference} N_t (K - N_t); N_0 = 0.5, K = 1$ plot N from t = 0 to 32 for $r_{difference} =$ 0 a number between 1 and 3 a number between 3 and 3.6 a number greater than 3.6

r _{dif}	ference =	
	0	extinct
	1-3	stable
	> 3	periodic
	> 3.6	chaotic





