\[ \theta < 0 < \infty \]  

prop. dist. \( f(\theta; x, y) \) target \( \theta^* \)

\[ p(\theta^*|y) \]  

1. accept all uphill moves:

\[ \frac{p(\theta^*|y)}{p(\theta_t|y)} > 1 \] accept

2. accept some of the downhill moves:

\[ \frac{p(\theta^*|y)}{p(\theta_t|y)} < 1 \]

\[ \alpha_n = \min \left( \frac{p(\theta^*|y)}{p(\theta_t|y)}, 1 \right) \] accept downhill move w.p. \( \alpha_n \)

0-2 calculate \( \alpha_n = \min \left( \frac{p(\theta^*|y)}{p(\theta_t|y)}, 1 \right) \)
accept: $\theta_{t+1} = \theta^*$

don't accept: $\theta_{t+1} = \theta_t$

intention

PD (large $\sigma^*$)

low acceptance rate

high positive autocorrelation
high acceptance

\[ \mu_x (\frac{\sigma_{\text{win}}}{\sigma_{\text{x}}}) \quad \text{some} \quad \theta + \] 

\[ \text{sticky} \]

\[ \text{Iteration} \]

\[ \text{high positive autocorrelation} \]

\[ \text{xcorr} \]