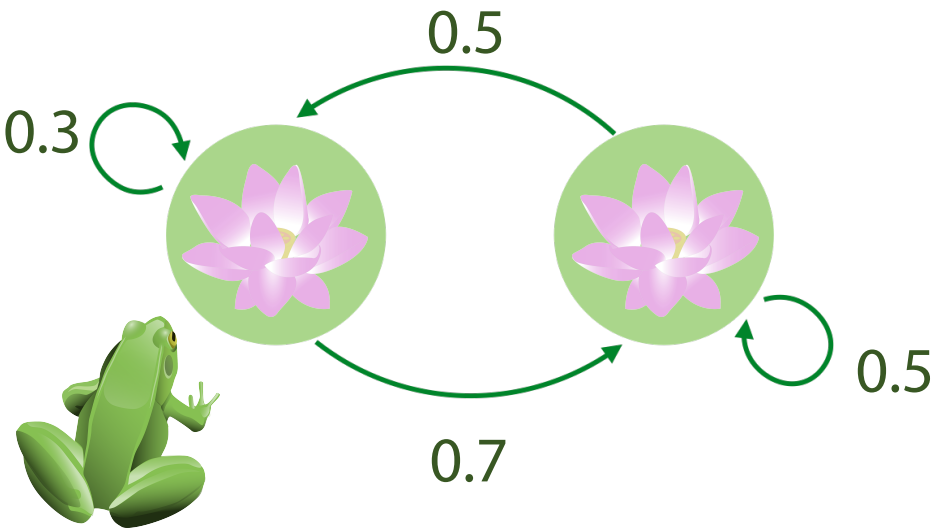
Markov Chains



	p(Left)	p(Right)
x^1	1	0
x^2	0.3	0.7
x^3	$0.3^2 + 0.7 \cdot 0.5$	

$$p(x^3) = p(x^3 \mid x^2 = \mathrm{L})p(x^2 = \mathrm{L}) + p(x^3 \mid x^2 = \mathrm{R})p(x^2 = \mathrm{R})$$