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 Our representation of P(X) is now a list of N particles (samples) Generally, N << X Storing map from X to counts would defeat the purpose 	• •
Parti P(x) approximated by (number of particles with value x) / N More particles, more accuracy	icles: (3,3) (2,3) (3,3) (3,2)
What is P((2,2))? 0/10 = 0%	(3,3) (3,2) (1,2)
In fact, many x may have P(x) = 0!	(3,3) (3,3) (2,3)

Particle Filtering Algorithm

- 1. Elapse Time
- 2. Observe
 - 2a. Downweight samples based on evidence
 - 2b. Resample



























