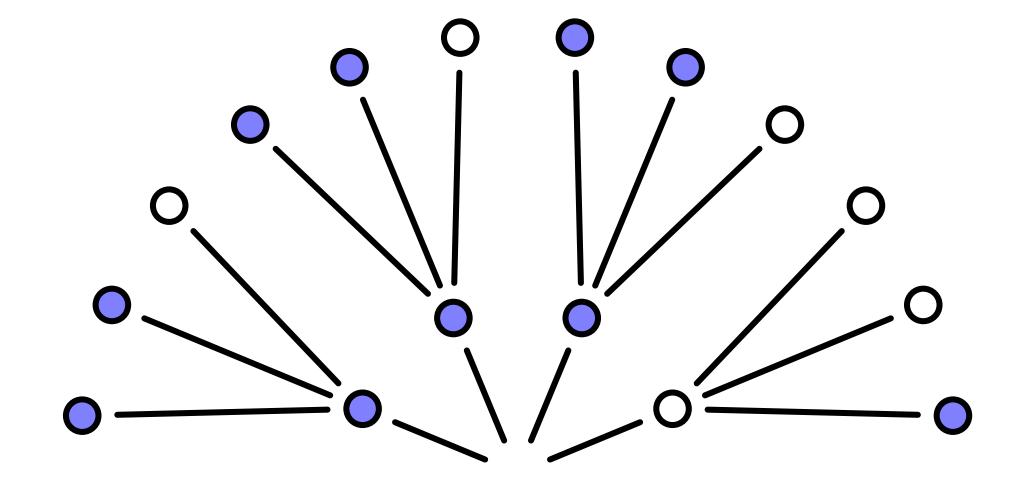
Misclassification estimator

$$Pr(\text{water}|p, x) = p(1 - x) + (1 - p)x$$

$$Pr(\text{land}|p, x) = (1 - p)(1 - x) + px$$



Posterior distribution for p given W,L,x:

$$\Pr(p|W,L,x) = \frac{[p(1-x) + (1-p)x]^W \times [(1-p)(1-x) + px]^L}{Z}$$