POMDP Example: Crying baby problem

- Suppose we have the following state uncertainty

$$O(\text{crying} \mid \text{hungry}) = 80\%$$
$$O(\text{quiet} \mid \text{hungry}) = 20\%$$

$$O(\text{crying} \mid \text{full}) = 10\%$$
$$O(\text{quiet} \mid \text{full}) = 90\%$$

- We can start with some prior belief and update it as we observe data

True State:FULL