

$$P(w_1) = 0.7 \cdot 0.8$$

```
sneezing(bob) :- flu(bob) .  
sneezing(bob) :- hay_fever(bob) .  
flu(bob) .  
hay_fever(bob) .
```

$$P(w_2) = 0.3 \cdot 0.8$$

```
null :- flu(bob) .  
sneezing(bob) :- hay_fever(bob) .  
flu(bob) .  
hay_fever(bob) .
```

$$P(w_3) = 0.7 \cdot 0.2$$

```
sneezing(bob) :- flu(bob) .  
null :- hay_fever(bob) .  
flu(bob) .  
hay_fever(bob) .
```

$$P(w_4) = 0.3 \cdot 0.2$$

```
null :- flu(bob) .  
null :- hay_fever(bob) .  
flu(bob) .  
hay_fever(bob) .
```