Start Again with Bayes' Theorem

Let's define some events:

- $R \equiv a \text{ car is red}, B \equiv blue, W \equiv white, G \equiv green$
- $N \equiv a \ car \ is \ new$
- $I \equiv a \ car \ is \ imported$
- $F \equiv a \ car \ is \ fast \ (a \ sports \ car!)$

Bayes' Theorem gives us: prob(color|N AND I AND F) = prob(color AND N AND I AND F) / prob(N AND I AND F)