

# Flipping the conditioning

What about  $\mathbb{P}(T|B)$ ?

You have three red marbles and one blue marble in your left pocket, and one red marble and two blue marbles in your right pocket. if it's heads, you'll draw a marble (uniformly) from your left pocket, if it's tails, you'll draw a marble (uniformly) from your right pocket.

Pause, what's your intuition?

Is this probability

- A. less than  $\frac{1}{2}$
- B. equal to  $\frac{1}{2}$
- C. greater than  $\frac{1}{2}$

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