

Imagine there are three types of coins in circulation:

- **90%** of coins give tails with probability  **$1/2$**
- **9%** of coins are give tails with probability  **$3/5$**
- **1%** of coins give tails with probability  **$9/10$**

I find a (random) coin on the ground and I flip it.

**What is the probability I get tails?**