



## Coins

### 1 Why

We want a simple example of modeling an uncertain outcome.

### 2 Model

Consider flipping a coin. The coin has two sides. When we flip the coin, it lands heads or tails.

Let us use the set of outcomes  $\{0, 1\}$ . If the coin lands tails, we will say that outcome 0 has occurred. If the coin lands heads, we will say that outcome 1 has occurred.