

Roulette or Chips-and-Bins is a method used for eliciting probability distributions from experts regarding specific outcomes or variables. It is implemented as a two-step procedure outlined below. Screenshots are provided to illustrate the interface.

?

Question 1

What percentage of households globally have a dog?

Task 1

Please define the range of values you think the outcome will fall within.
You can still adjust the range afterwards

What do you think are the lowest and highest plausible values (Percentage (%)) for this outcome?

↓

Lowest plausible value

↑

Highest plausible value

Values must be between 0 and 100

Confirm

Step 2: Experts are then given 20 “chips” to distribute across a set of “bins” within the estimated range. Each bin represents a possible value for the outcome in question. The distribution of chips reflects the expert's belief about the likelihood of each value. The more chips placed in a bin, the higher the probability the expert assigns to that value occurring.

Question 1

What percentage of households globally have a dog?

Task 2

Place 20 chips on the grid. The number of chips in each bin shows how likely you think the value is to be in that range.

Chips:

20 / 20

Reset

0

10

20

30

40

50

60

70

80

90

100

Percentage (%)

Change range



A summary below the bins-grid gives feedback to the expert and about how their distribution of chips translates into a probability distribution for the outcome in question – see 'Summary' panel in the screenshot below.



Roulette Step 2: Summary of probability distribution

Experts can adjust and change the plausible range they provided in step 1 by clicking on 'Change range'.

After all chips have been allocated, experts are usually asked to provide some rationale for their chip distribution, which helps in understanding the reasoning behind their probability assessments. This feature can be turned off.

Rationale

After placing your chips, please provide a brief explanation for your choices and any additional comments.

Roulette: Rationale for chip distribution

