frequency table

A table listing the frequencies of *outcomes*. A frequency table is typically used when the outcomes of an *experiment* fall into *categories*. The following table lists the frequencies of vehicles passing a point on a road.

Vehicles by type					
Type	Bicyle	Motorcycle	Car	Truck	Other	**Total**
Frequency	57	11	90	17	5	180

The probability of each category in the table can be computed by dividing the frequency of the category by the total sum of frequencies. Hence the frequency table implements a *random variable*. In the above table the probability for a car to pass the point would be $P(X = Car) = \dfrac{90}{180} = 0.5$.

A common way to visualize a frequency table is the *histogram*. *Multivariate* frequency tables exist, see *contingency table*.

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