

6.2: What is a Discrete Random Variable?

A **discrete random variable** is a random variable that has only discrete values. Discrete values are related to counting numbers.

Examples of discrete random variables

- The number when a die is rolled. Possible values = $\{1, 2, 3, 4, 5, 6\}$
- The number of heads when flipping two coins. Possible values = $\{0, 1, 2\}$
- Number of Siblings you have. Possible Values = $\{0, 1, 2, \dots\}$ Here we don't know the maximum, but the possible values are still whole numbers.

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