

Probability

Example

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| Probability

- The following table presents probabilities for the number of times that a certain computer system will crash in the course of a week. Let **A** be the event that there are **more than two crashes during the week**, and let **B** be the event that the system **crashes at least once**.
- **Find a sample space.**
- Then find the subsets of the sample space that correspond to the events A and B.
- Then find $P(A)$ and $P(B)$.

Number of Crashes	Probability
0	0.60
1	0.30
2	0.05
3	0.04
4	0.01

| Probability

- If A is an event containing outcomes $O_1, \dots, O_n$, that is, if $A = \{O_1, \dots, O_n\}$, then
- $P(A) = P(O_1) + P(O_2) + \dots + P(O_n)$
- the probability of any event that contains a finite number of outcomes can be found by summing the probabilities of the outcomes that make up the event

| References

- Understanding Boxplots <https://towardsdatascience.com/understanding-boxplots-5e2df7bcbd51>
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