# Information Theory Notes

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## Introductory Notes

Information Theory is concerned with quantifying Information and analyzing its properties. Information Theory has direct applications in finding a) compact representations of data as well as b) robust and secure ways of data transmission. Information Theory is related to Probability Theory in a variety of contexts.

## Appendix

## References

[Entropy and Information Theory, Robert M. Gray, Stanford, 2023](https://github.com/dimitarpg13/information_theory_and_statistical_mechanics/blob/main/literature/books/EntropyAndInformationTheory_Gray_Stanford_2023.pdf)