

## 4. Method of Types, Strong AEP and Universal Source Coding

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Types

Method of Types

Strong Typicality

Universal Source Coding

## Types

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## Limitation of weak typical set













## Method of Types

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## Strong Typicality

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## Comparison between weak typical set



## Universal Source Coding

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Idea of universal source coding



- T. M. Cover and J. A. Thomas. Elements of Information Theory, Wiley, 2nd ed., 2006.
- Gallager (2008), Principles of Digital Communication, Cambridge University Press.
- Lecture notes for EE623: Information Theory (Fall 2024)