

# Chapter 2

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[Link to chapter](#)

## 1 Data Manipulation

- Familiarity with vectors, matrices and tensors
- Broadcasting mechanism
- Indexing
- Memory considerations  $X[:] = X+Y$

## 2 Data Preprocessing

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## References

Zhang, A., Lipton, Z. C., Li, M., & Smola, A. J. (2020). *Dive into deep learning*.  
(<https://d2l.ai>)