

## Summary of Lecture 5

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**Reading:** [Arora-Barak (AB)] Chap 2.3, 3.1, 3.2; Katz's Lecture Note 4.

- Intuitive understanding of why 3SAT could be NP-complete.
- Time/Space hierarchy theorem: statement and meaning.
- how to apply the diagonalization method to prove the hierarchy theorem.