Summary of Lecture 8

Reading: [Arora-Barak (AB)] Chap 4.2, 4.3.

- TQBF is PSPACE-complete [Theorem 4.13].
- Non-deterministic space vs deterministic space. Savitch's theorem [Theorem 4.14].
- Log-space reduction and NL-complete. Note the composition of log-space reductions [Lemma 4.17].
- PATH problem and its NL-completeness. [Theorem 4.18]