

# Chapter VII Randomized Computation

## 1. Probabilistic Turing Machines

## 2. Some examples of PTMs

## 3. One-sided and zero-sided error: $\mathcal{RP}$ , $\text{co}\mathcal{RP}$ , $\text{ZPP}$

See

 [Sanjeev Arora, Boaz Barak:](#)  
*Computational Complexity — A Modern Approach*,  
p. 115–120, Cambridge University Press: Cambridge-New York-Melbourne, 2009