

## 5. Decision versus search

## 6. $\text{co}\mathcal{NP}$ , EXP, and NEXP

## 7. Some implications

See

 [Sanjeev Arora, Boaz Barak:](#)  
*Computational Complexity — A Modern Approach*,  
p. 53–59, Cambridge University Press: Cambridge-New York-Melbourne, 2009

Also see



Michael R. Garey, David S. Johnson:

*Computers and Intractability: A Guide to the Theory of  $\mathcal{NP}$ -completeness*,  
W.H. Freeman and Company: New York-San Francisco, 1979

and the websites (among many others)

List of Complexity Classes (Wikipedia)  
Complexity Zoo  
 $\mathcal{NP}$ -complete Problems (Wikipedia)  
 $\mathcal{NP}$ -completeness Columns  
A Compendium of NP Optimization Problems