## Summary: Lecture 2

Summary for the chapters 7.1 Complexity classes and 7.2 Hierarchy problem. [2]

## Complexity classes

A complexity class is a set which contains problems with similar complexities. The complexities are examined in regards og a specific ressource, for example time or space. For the problems the most efficient solution/algorithm is analysed.

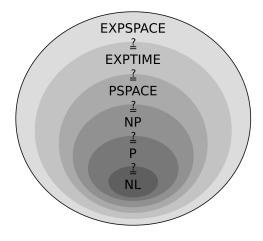


Figure 1: Complexity classes [1]

[3]

## Hierarchy problem

## References

- [1] Complexity classes diagram image source. https://en.wikipedia.org/wiki/Complexity\_class.
- [2] Christos H. Papadimitriou. *Computational Complexity*. Addison-Wesley Publishing Company, 1994.
- [3] Prof. Dr. Thomas Schwentick. Lecture notes in Grundbegriffe der theoretischen Informatik. https://www.cs.tu-dortmund.de/nps/de/Studium/Ordnungen\_Handbuecher\_Beschluesse/Modulhandbuecher/Archiv/Bachelor\_LA\_GyGe\_Inf\_Modellv/\_Module/INF-BfP-GTI/index.html.