1 | sources

- 1.1 | gentle introductions
- 1.1.1 https://en.wikipedia.org/wiki/Computational_complexity_theory
- 1.1.2 https://complexityzoo.net/Petting_Zoo
- 2 | overview
- 2.1 | computational complexity theory studies how "difficult" a problem is
- 2.1.1 | importantly, not how "good" an algorithm is... this field deals with all algorithms that solve a given problem
- 2.2 | key concepts
- 2.2.1 | types of problems
- 2.2.2 | Turing machines
- 2.2.3 | reducibility
- 2.2.4 | complexity classes
- 2.2.5 | hierarchy
- 2.3 | key problems
- 2.3.1 | P vs NP
- 3 | flows
- 3.1 Wikipedia computational complexity theory
- 3.1.1 | computational problems
 - 1. problem instances

A problem describes the problem. the actual "numbers" that describe a specific problem is called a problem instance. sorting a list is a problem, sorting *this* list is a problem instance.

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