### That is It And What is the Next?

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June 17 - June 21, 2017



## That is It And What is the Next?

- That is It!
- 2 What is the Next?

# Algorithms

写清楚算法原理,不要只写代码 写清楚算法原理,不要只写代码 写清楚算法原理,不要只写代码

# Algorithms

DFS/BFS/Dijkstra Frameworks + Code



# Prove (or disprove)

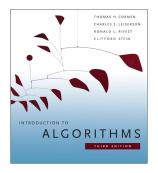




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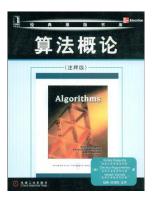
## **CLRS**



MIT OCW: 6.046J/18.410J, Fall 2005

MIT OCW: 6.006, Fall 2011

# Algorithms



### Advanced ...

### 6.897: Advanced Data Structures (Spring 2003)

#### Prof. Erik Demaine

[General motivation] [Requirements] [Projects] [Scribe notes] [Erik's notes] [Email archive]

#### **Topics**

This class will cover a variety of topics, which can vary depending on interest by students. Big topics that will structures. To get a better feel for the area, I've written some general motivation for advanced data structures.

#### 6.890 Algorithmic Lower Bounds: Fun with Hardness Proofs (Fall 2014)

Prof. Erik Demaine TAs: Sarah Eisenstat, Jayson Lynch

[Home] [Lectures] [Problem Sets] [Project] [Open Problems] [Piazza]

#### Overview

Need to figure out when to give up the search for efficient algorithms?
Want to know why Terris and Mario are computationally intractable?
Love seeing the connections between problems and how they can be transformed into each other?
Like solving nuzzles that can turn into publishable papers?

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### Resources



https://cs.stackexchange.com/

### Resources



https://cstheory.stackexchange.com/



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