

Dan Garcia

The Beauty and Joy of Computing

Lecture #6 Algorithms

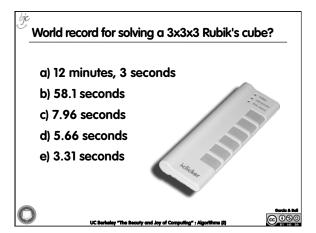
Quest REVIEW in 8 days! Quest (first exam) in in 9 days!



PREDICTING THE FUTURE?

MIT researchers recently created an algorithm which they say will be able to predict what topics will "trend" or go viral on Twitter hours before they do. Its accuracy expected to get better with time. They are using Aritifical Intelligence (Machine Learning) to get better

http://web.mit.edu/newsoffice/2012/predicting-twitter-trending-topics-1101.html







What is an algorithm?

- An **algorithm** is any well-defined computational procedure that takes some value or set of values as input and produces some value or set of values as output.
- . The concept of algorithms, however, is far older than computers.



Early Algorithms

- Dances, ceremonies, recipes, and building instructions are all conceptually similar to algorithms.
- · Babylonians defined some fundamental mathematical procedures ~3,600 years ago.



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