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## **Introduction to Automata Theory, Languages, and ...**

INTRODUCTION TO Automata Theory, Languages, and Computation JOHN E. HOPCROFT Cornell University RAJEEV MOTWANI Stanford University JEFFREY D. ULLMAN Stanford University

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## **INTRODUCTION TO Automata Theory, Languages, and Computation**

Introduction to Automata Theory, Languages, and Computation is an influential computer science textbook by John Hopcroft and Jeffrey Ullman on formal languages and the theory of computation. Rajeev Motwani contributed to the 2000, and later, edition.

## **Introduction to Automata Theory - Washington State**

This book is an introduction to the theory of computation. After a chapter presenting the mathematical tools that will be used, the book examines models of computation and the associated languages, from the most elementary to the most general: finite automata and regular languages; context-free languages and push-

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Introduction to Automata Theory, Languages, and Computation. They have revised this book to make it more accessible to today's students, including the addition of more material on writing proofs, more figures and pictures to convey ideas, side-boxes to highlight other interesting material, and a less formal writing style.

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solutions introduction to automata theory, languages, and computation collected prepared by rontdu@gmail.com 13th batch (06-07) dept. of computer science

## **Introduction to Theory of Computation**

Originally, CFGs were used in the study of the human languages. Cellular automata are used in the field of biology, the most common example being John Conway's Game of Life. Some other examples which could be explained using automata theory in biology include mollusk and pine cones growth and pigmentation patterns.

## **Introduction to Languages and the Theory of Computation**

To show the language is in NP, guess  $z$ , compute  $f(z)$  deterministically in polynomial time, and test whether  $f(z) = x$ . When the guess of  $z$  is correct, we have  $f^{-1}(x)$ . Compare it with  $y$ , and accept the pair

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$(x,y)$  if  $z \leq y$ .

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