

INTUITION FOR COMPUTATION

A Guide for Programmers and Curious Minds



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Preface

I wrote my first novel because I wanted to read it.

—Toni Morrison

Acknowledgements

INTUITION FOR COMPUTATION

The very word intuition has to be understood.

You know the word tuition—tuition comes from outside, somebody teaches you, the tutor.

Intuition means something that arises within your being;

it is your potential, that's why it is called intuition.

Wisdom is never borrowed, and that which is borrowed is never wisdom.

Unless you have your own wisdom, your own vision,

your own clarity, your own eyes to see,

you will not be able to understand the mystery of existence.

—Osho

Philosophy of Computation

*We're presently in the midst of a third intellectual revolution. The first came with Newton: the planets obey physical laws. The second came with Darwin: biology obeys genetic laws. In today's third revolution, we're coming to realize that even minds and societies emerge from interacting laws that can be regarded as computations. **Everything is a computation.***

—Rudy Rucker

1 COGNITIVE ONTOLOGY

2 LOGIC AND EPISTEMOLOGY

3 INFORMATION AND COMMUNICATION