

Relational Programming

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here for the long run

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For my H211 students:
Indiana University, Fall 2010 & 2011, and Team pw0ni3.

Learning with always trumps learning from.

—Woodie Flowers

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Preface

I'm about to tell you some of the things I think I know (and many more things I think I don't know) about my second favorite type of science fiction, which I call *relational programming*. Relational programming is the art of running programs “backwards.”

Relational programming is not science fiction because it is from the future. Rather, like all great science fiction, relational programming is about changing one aspect of our world—modifying, adding, or removing one rule or assumption—and seeing what happens. Relational programming changes our world by adding a single rule that can never be broken: computer programs are no longer allowed to distinguish between “input arguments” and “output values.” That is, every program must run backwards.

That's it. And it changes everything. Let's go!

Chapter 1

Introduction

Bibliography