

Formal Semantics of Programming Languages

— An Overview —

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Abstract

These notes give an overview of the main frameworks that have been developed for specifying the formal semantics of programming languages. Some of the pragmatic aspects of semantic descriptions are discussed, including modularity, and potential applicability to visual and modelling languages. References to the literature provide starting points for further study.

Keywords: semantics, operational semantics, denotational semantics, SOS, MSOS, reduction semantics, abstract state machines, monadic semantics, axiomatic semantics, action semantics, programming languages, modelling languages, visual languages

1 Introduction

▷ A *semantics* for a programming language models the computational meaning of each program.

The computational meaning of a program—i.e. what actually happens when a program is executed on some real computer—is far too complex to be described in its entirety. Instead, a semantics for a programming language provides abstract entities that represent just the relevant features of all possible executions, and ignores details that have no relevance to the correctness of implementations. Usually, the only features deemed to be relevant are the relationship between input and output, and whether the execution terminates

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Formal Semantics Of Programming Languages

Rachel S Tattersall



Formal Semantics Of Programming Languages:

Decoding **Formal Semantics Of Programming Languages**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Formal Semantics Of Programming Languages**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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