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languages. Language features are manifestations of type structure. The syntax of a language is governed by the constructs that define its types, and its semantics is determined by the interactions among those constructs. The soundness of a language design – the absence of ill-defined programs – follows naturally.

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Programming Languages: Theory and Practice (WORKING DRAFT OF SEPTEMBER 19, 2005.) Robert

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Language concepts are precisely defined by their static and dynamic semantics, presenting the essential tools both intuitively and rigorously while relying on only elementary mathematics. These tools are used to analyze and prove properties of languages and provide the framework for combining and comparing language features.

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Practical Foundations for Programming Languages [PDF] Posted on October 10th, 2013. Download the latest draft copy of Professor Robert Harper's Practical Foundations for Programming Languages in pdf format. This book offers a fresh perspective on the fundamentals of programming languages through the use of type theory.

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While the text assumes some background in an imperative language, and prior coverage of the basics of data structures, the hands-on approach and easy to follow writing style will enable the reader to quickly grasp the essentials of programming languages, frameworks, and architectures.

### **Foundations of Programming Languages, 2nd Edition**

Robert Harper (editor). Types in Compilation. Springer-Verlag Lecture Notes in Computer Science volume , 2001. Robert Harper. Programming in Standard ML. Working Draft, 2013. Robert Harper. Practical Foundations for Programming Languages (Second Edition) Courses. 15-150: Functional Programming.

### **Robert Harper's Home Page**

It covers functional programming, basic concepts of logic, computer-assisted theorem proving, and Coq. Volume 2 Programming Language Foundations surveys the theory of programming languages, including operational semantics, Hoare logic, and static type systems.

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Name a language, other than Python, C++, or Java, that is imperative object-oriented in nature. Name a language besides Standard ML, that is a functional programming language. What other logic programming languages are there other than Prolog? You might have to get creative on this one. Why is compiling a program preferred over interpreting a ...

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The focus of the text moves from highly prescriptive languages to very descriptive languages, demonstrating the many and varied ways in which we can think about programming.

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