

The Linguistics of Programming

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Abstract

Research in programming languages and software engineering are broadly concerned with the study of aspects of computer programs: their syntactic structure, the relationship between form and meaning (semantics), empirical properties of how they are constructed and deployed, and more. We could equally well apply this description to the range of ways in which linguistics studies the form, meaning, and use of natural language. We argue that despite some notable examples of PL and SE research drawing on ideas from natural language processing, there are still a wealth of concepts, techniques, and conceptual framings originating in linguistics which would be of use to PL and SE research. Moreover we show that beyond mere parallels, there are cases where linguistics research has complementary methodologies, may help explain or predict study outcomes, or offer new perspectives on established research areas in PL and SE. Broadly, we argue that researchers across PL and SE are investigating close cousins of problems actively studied for years by linguists, and familiarity with linguistics research seems likely to bear fruit for many PL and SE researchers.

Keywords: programming languages, software engineering, linguistics

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1 Introduction

Programming language and software engineering research are centered around computer programs: their construction process (both social and technical), how they are expressed, what guarantees we can make of them, how they interact

with additional artifacts (such as comments, design documents, and natural language specifications), how people comprehend them, and what common properties the languages used to build them either have or could have (by design) and how those interact with what a program expresses (a computational solution).

Linguistics is concerned with analogous ideas for human languages, rather than programming: what are commonalities across languages, how do those differences interact with language use, what bounds can be established on how languages might evolve to express (or leave implicit) certain information, how language use might vary according to use case or social context, how to systematically and precisely model natural languages, and more.

While the two fields have clear differences — in particular, studying engineered languages versus naturally evolving languages — linguistics offers a wealth of ideas, perspectives, and established analytical tools (both formal and informal) which we believe can help shed light on problems of interest to researchers in programming languages and software engineering.

This essay seeks to give a broad overview of pieces of linguistics with clear relevance to problems actively studied in computer science. Out of necessity this means our discussions will only scratch the surface of the field and cannot include all possible points of connection; our priority is to demonstrate a number of places where connections may occur, and provide entry points to the literature for those interested in problems like those we highlight, or those who see relevance between the linguistic concepts we point out and other problems.

2 Parallels Between Linguistics and PL/SE

Linguistics is an enormous area, neither strictly science nor strictly humanity, but, as the meme goes, a secret third thing (i.e., both). It generally covers such topics as syntax (roughly, grammar); semantics (roughly, literal meaning); pragmatics (how and why language is used certain ways rather than others in a given situation, and how words that literally mean one thing can acquire additional meanings in context); discourse analysis (study of ongoing linguistic interactions); morphology (the relationship between word forms and meanings, such as the relation between word form changes and meaning change); orthography (the study of writing systems); phonetics and phonology (the study of how speech

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question 1 quel est le problème de mini