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**Computer Science > Computation and** Language

## **A Formal Framework** for Linguistic **Annotation (revised** version)

#### Steven Bird, Mark Liberman

(Submitted on 26 Oct 2000)

`Linguistic annotation' covers any descriptive or analytic notations applied to raw language data. The basic data may be in the form of time functions - audio, video and/or physiological recordings - or it may be textual. The added notations may include transcriptions of all sorts (from phonetic features to discourse structures), part-of-speech and sense tagging, syntactic analysis, `named entity' identification, coreference annotation, and so on. While there are several ongoing efforts to provide formats and tools for such annotations and to publish annotated linguistic databases, the lack of widely accepted standards is becoming a critical problem. Proposed standards, to the extent they exist, have focused on file formats. This paper focuses instead on the logical structure of linguistic annotations. We survey a wide variety of

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Steven Bird Mark Liberman

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existing annotation formats and demonstrate a common conceptual core, the annotation graph. This provides a formal framework for constructing, maintaining and searching linguistic annotations, while remaining consistent with many alternative data structures and file formats.

Comments: 29 pages, 20 figures, to appear in Speech Communication, An earlier version appeared as cs.CL/9903003

Subjects: Computation and Language (cs.CL); Databases (cs.DB); Data Structures and Algorithms (cs.DS)

ACM classes: A.1; E.2; H.2.1; H.3.3; H.3.7; I.2.7 Cite as: arXiv:cs/0010033 [cs.CL] (or arXiv:cs/0010033v1 [cs.CL] for this version)

#### **Submission history**

From: Steven Bird [view email] [v1] Thu, 26 Oct 2000 17:42:30 GMT (100kb)

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