
**Language resource management —
Corpus query lingua franca (CQLF) —**

**Part 1:
Metamodel**

*Gestion des ressources linguistiques — Corpus query lingua franca
(CQLF) —*

Partie 1: Métamodèle





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Foreword

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This document was prepared by Technical Committee ISO/TC 37, *Language and terminology*, Subcommittee SC 4, *Language resource management*.

A list of all parts in the ISO 24623 series can be found on the ISO website. Additional parts on single-stream and multi-stream ontology architectures are planned to be developed in the future.

Introduction

A range of standards relating to language resource management, with the Linguistic Annotation Framework (ISO 24612) at the centre, have been developed. These standards are mostly designed to regulate the representation aspect of language data – they look at the data from the point of view of preparation and curation. This document complements this perspective by that of the end-user, that is to say, from the point of view of processing and querying.

The corpus linguistic community has, by now, developed several corpus query languages (QLs), and there is a particularly large number of them if “dialects” and forks are included. There are two main reasons for this abundance. Firstly, there are socio-economic and organizational factors, with separate query systems having been created by isolated projects with un-coordinated funding, many of them eventually developing their own set of followers. Secondly, query systems are typically sensitive to the format of the data and are often designed with a specific purpose in mind. For example, systems for querying parallel audio and transcription streams with multiple speakers have different characteristics from systems designed to query purely textual data with a single layer of morphosyntactic description. Dependency and hierarchical annotations demand yet another set of solutions. All of this results in the richness of alternatives or near-alternatives on the one hand, and in the lack of interoperability among the variants on the other. As a consequence, a “wrong” choice at the beginning of a project can bury months of research by exposing inadequacies in the initial decision after the project has become mature enough to move to new extended functionality and towards addressing more complex information needs.

This document codifies, in a modular way, the best existing practices followed in the design of corpus query languages. Its theoretical aim is to provide a basis for the investigation of the relationships between language resource architecture and corpus query language properties. The practical aim of the Corpus Query *Lingua Franca* (henceforth CQLF) is to provide linguists and language technology practitioners with a clear and coherent basis for making informed choices concerning data architectures and the query languages appropriate to them.

