



AGENTIC ACCESS TO LOD

An MCP Server for Chat Interaction with the
DraCor Open Knowledge Graph

Open Knowledge Graph

A deliverable of the **DraCorOS** project (OSCARS Cascading Grant), the **DraCor Open Knowledge Graph** will link DraCor's rich data on dramatic texts (plays, characters, metrics) to the research that builds on it: publications, researchers, conferences, software, derived datasets. It makes the connections between what is studied and who studies it with which tools explicit, laying the foundation for **reproducible research** workflows.

The Data Model

Following **CIDOC-CRM** we use an event-based model: everything that happens is a typed activity with participants, products, and time. **LRMoo** adds work/ expression/manifestation. **CRMdig** models digital provenance (software and machine events), but cannot measure digital objects. A slim **DraCor Extension** (DRCx) adds what computational drama analysis needs: a formal Algorithm class, a Digital Measurement event, and properties for the provenance of a computed value.

The SPARQL Problem

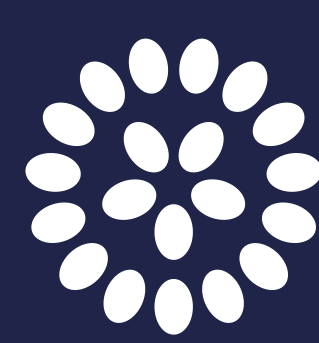
Querying such a Knowledge Graph requires a specialized query language: **SPARQL**. Even a simple question requires knowing the right CIDOC-CRM property chain, the namespaces, the named graphs, and the local URI conventions. Carefully curated expert systems end up under-used because the audience that would benefit most cannot access them.

Conversation, not query

The **Model Context Protocol** lets large language models call tools autonomously. Here, an MCP server exposes the SPARQL endpoint as a single tool. The user can ask in plain language; the model writes the SPARQL query, runs it, and answers in prose. But the LLM knows SPARQL—not the graph. Carefully engineered instructions in the docstrings teach it useful patterns, the namespaces, the named graphs, and the dataset's quirks.



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