

What is Tupelo?

Tupelo is a data and metadata management system based on semantic web technologies. Tupelo provides a variety of generic utilities for managing data and metadata using both best-of-breed semantic database implementations such as [Jena](#) and [Sesame](#), as well as ordinary storage technologies such as flat files. Tupelo makes data and metadata portable across a variety of Contexts and deployment scenarios, including desktop applications, web-based applications, and more complex distributed architectures. Its use of global identification and explicit semantics means that metadata created and managed with Tupelo can be easily exported and used by a wide variety of RDF-aware tools and technologies.

Tupelo is designed for managing large-scale, complex scientific data and metadata collections. It is also suitable for more conventional digital libraries containing [Dublin Core](#) or other standard digital library metadata schemas. Its RDF-based metadata framework can support a wide variety of schemas, from simple, flat-namespace schemas such as Dublin Core, to hierarchical models derived from [XML Schema](#), to more web-like models derived from [RDF](#) variants such as [RSS](#).

Features

- Client-side bindings for multiple RDF stores and other content management systems and protocols including
 - Jena
 - Sesame
 - RSS
 - WebDAV
 - URIQA
 - plain filesystem
 - MySQL
 - PostgreSQL
 - Derby
 - H2
 - Oracle with semantic extensions
- Server-side support for content API's including
 - URIQA
 - RSS
- Abstract "Context"/"Operator" model supporting
 - Writing and querying RDF data to heterogeneous stores
 - Reading and writing binary streams
 - Merging/mirroring heterogeneous RDF and content stores
 - Declarative specification and procedural execution of RDF transformation rules
 - Rudimentary ability to execute SPARQL queries and SWRL rules even when backend storage technologies do not support those languages

About the name

The name "Tupelo" comes from the word ["tuple"](#). It's also the name of [a kind of gum tree](#) as well as [the birthplace of Elvis Presley](#).