



Extensibility: a little bit of reasoning goes a long way...

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Why build ontologies with **extensibility** in mind?

Makes **sharing** easier

Class hierarchies → **OO modeling**

- others can extend

Property hierarchies

- better extensibility



Helps with **data integration**

Polymorphism and **shared classes** are better than disjoint concepts

“Partial shared understanding”

(You **won't** get everything right anyway)

Simple reasoning makes extensibility easier

Expands class and property hierarchies

Hides model details → **makes writing queries easier**

- less domain knowledge needed when writing queries
- same queries work even after model has been extended or modified

Beyond RDF(S), what else is useful?

- transitive properties
- inverse functional properties → primary keys
- owl:sameAs, owl:equivalentClass

Validation? → use SHACL