Construct ontologies by instantiating OTTR templates

### Problem
- Lack of established abstraction mechanism for RDF/OWL to capture modelling patterns
- Repetitive and tedious ontology construction
- Difficult to engage domain experts
- Low-level maintenance methods

### Reasonable Ontology Templates (OTTR)
- Practical macro language for RDF/OWL
- Formal foundation, built with W3C standards
- Declarative and modular patterns
- Ensure uniform modelling
- Secure completeness of input
- Separate modelling patterns and bulk content
- Advanced template maintenance
- Available at [https://ottr.xyz](https://ottr.xyz)
- Open source Java implementation [Lutra](https://github.com/ottrxyz/)

#### OTTR: Margherita
```
#OTTR
NNOTATION
```

#### Multiple serialisations: stOTTR (compact), tabOTTR (tabular), wOTTR (RDF), qOTTR (SPARQL)

- stOTTR
- tabOTTR
- wOTTR
- qOTTR

#### Ontology engineering methodology: Template abstractions adapted to different user types

- **Instances (tabOTTR)**: Query results
- **Lifting**: Std. library templates
- **Lowering**: RDF/OWL
- **Expansion**: Ontology expert

#### Maintain ontologies by maintaining templates: Detect and remove redundancies

- **Library with redundancies**: Multiple templates for the same concept
- **Fixed library**: Optimised templates for efficiency

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**Reasonable Ontology Templates**

Martin G. Skjæveland, Leif Harald Karlsen, Daniel P. Lupp

Department of Informatics, University of Oslo