

# Instructions

The goal of this test session is to investigate the features and functionalities of [LODE, the Live OWL Documentation Environment](#), in terms of its usability.

LODE is a service that automatically extracts relevant aspects of an OWL or OWL2 ontology (such as classes, object properties, data properties, named individuals, annotation properties, general axioms and namespace declarations), and renders them and their textual definitions in a human-readable HTML page designed to aid browsing and navigating the ontology by means of embedded links.

Our interest is to assess:

- how LODE help users in producing human-readable documentation of OWL ontologies;
- how the documentation made by LODE can be used to browse and make sense of OWL ontologies.

The test session is structured as follows:

- we first ask you to fill a questionnaire (found in the next page) about your background knowledge and skills in OWL, ontology engineering and ontology documentation [2 mins.];
- then, as a warm-up task, we ask you to use LODE with the FOAF ontology in order to become confident with the documentation produced by it and its navigation mechanisms (primarily, hypertext links) [5 mins.];
- then, as the real test, we ask you to address five different tasks using the documentation of the FaBiO ontology created through LODE [ideally 2 mins., max 5 mins. per task];
- finally, we ask you to fill out two questionnaires about your experience in using LODE to complete these tasks [5 mins.].

## Pre-task questionnaire: backgrounds [2 mins.]

Name or nickname: \_\_\_\_\_

Occupation (professor/phd/etc.): \_\_\_\_\_

Country of affiliation: \_\_\_\_\_

	strongly disagree						strongly agree	
1 I have extensive experience in knowledge representation	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
2 I have extensive experience with the RDFS schema language	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
3 I have extensive experience with the OWL ontology language	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
4 I have extensive experience in ontology engineering	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
5 I have extensive experience in ontology documentation	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
6 I understand the amount of effort needed to make a good ontology documentation	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
7 I have detailed knowledge of the FOAF ontology	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
8 I have detailed knowledge of the FaBiO ontology	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
9 I have developed/used ontologies specified in OWL/RDFS	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
10 I have developed/used ontologies specified in languages other than OWL/RDFS	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
11 I am an expert user of LODE	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5
12 I am an expert user of some other ontology documentation tool (e.g., Parrot or OWLDoc)	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	1		2		3		4	5

## Tasks [max 25 mins.]

### Warm-up task (5 mins.)

Click on the following link to explore the documentation of the FOAF ontology made by LODE:

<http://www.essepuntato.it/lode/owlapi/http://xmlns.com/foaf/spec/index.rdf>

Please, make sure to spend 5 minutes (not less, not more) in exploring LODE features.

### Test tasks (ideally 2 mins, max 5 mins per task)

Click on the following link to open a window visualising the documentation of the FaBiO ontology made by LODE:

<http://www.essepuntato.it/lode/http://purl.org/spar/fabio>

Please write down the answers to the following five tasks (remember: **ideally 2 mins, max 5 mins per task**):

1. Describe what is the main aim of the ontology. [2/3 lines]
2. Describe what the class *doctoral thesis* defines. [2/3 lines]
3. Describe what is the aim of the object property *has subject term* and write down a brief description of its domain and range classes. [2/3 lines]
4. Write down the class having the maximum amount of direct individuals (i.e., individuals that belongs explicitly to the intended class and that are not inferable from its subclasses).
5. Write down all the subclasses and the properties involving the class *item*.

## Post-task questionnaire 1 [2 mins.]

	strongly disagree						strongly agree
1 I think that I would like to use LODE frequently	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
2 I found LODE unnecessarily complex	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
3 I thought LODE was easy to use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
4 I think that I would need the support of a technical person to be able to use LODE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
5 I found the various functions in LODE were well integrated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
6 I thought there was too much inconsistency in LODE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
7 I would imagine that most people would learn to use LODE very quickly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
8 I found LODE very cumbersome to use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
9 I felt very confident using LODE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		
10 I needed to learn a lot of things before I could get going with LODE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	1	2	3	4	5		

