## Shape Expressions Visualization

4.	How wou <b>l</b> d	you rate	your know	ledge of	f the follo	owing to	echnologies?	*

	Nonexisten t	Basic	Average	High	Very High
UML	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
RDF	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Shape Expressions	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

5	How	do	VOL	accecc	vour	spatial	ahility	7:	,
J.	11000	uu '	you	assess	your	spatiai	ability	:	

Spatial ability refers to the ability to form a mental representation of two- or three-dimensional space. E.g., being able to imagine the consequences of a change of position or orientation of an object, or to interpret maps correctly.

$\bigcirc$	Nonexistant
$\bigcirc$	Poor
$\bigcirc$	Average
$\bigcirc$	High
$\bigcirc$	Verv high

## Test Case 1

Open the indicated tool and display the following Shape Expression. <a href="https://github.com/fidalgoLXXVI/shex-visualization-paper/blob/master/data/webindex.shex">https://github.com/fidalgoLXXVI/shex-visualization-paper/blob/master/data/webindex.shex</a> (This schema describes the data model of a Linked Data portal). Then answer each of the questions by carrying out the exposed steps.

6.	Is the shape :Organization closed? *
	Reminder: closed shapes are indicated by the qualifier CLOSED.
	Yes
	○ No
_	
7.	Which shape has the triple constraint "cex:value xsd:float"? *
8.	Ignoring references to other shapes, how many triple constraints does the shape :DataSet have? *
	Reminder: a triple constraint consists of a property and a nodal constraint. Optionally, they can include cardinality. Examples are :age xsd:integer, :url IRI, :gender [:male]
9.	What is the reference/s between the :Slice and :Observation shapes? *
10.	¿What shapes are connected by the reference cex:ref-area? *

11.	How many s	hapes are refe	erred to from	:Observation?	*	

## Test Case 2

Open the indicated tool and display the following Shape Expression. <a href="https://github.com/fidalgoLXXVI/shex-visualization-paper/blob/master/data/genewiki.shex">https://github.com/fidalgoLXXVI/shex-visualization-paper/blob/master/data/genewiki.shex</a> (This schema describes biomedical data relating to human genetics.)

Then answer each of the questions by carrying out the above steps.

12.	Is the	e :chromosome shape closed? *
	$\bigcirc$	Yes
	$\bigcirc$	No
13.	Spec	cify a shape that has the triple constraint ":geneOntologyId xsd:string". *
	Remi	nder: a triple constraint consists of a property and a nodal constraint. Optionally, they notice cardinality. Examples are :age xsd:integer, :url IRI, :gender [:male]
1⊿	lano	ring references to other shapes, how many triple constraints does the
17.	_	ecular_function shape have? *
15	\\/ha	t reference /s is /are there between the forms schemical compound and
13.		t reference/s is/are there between the forms :chemical_compound and apeutic_use? *
16.	Whic	ch shapes are connected by the reference :codifiedBy? *

17.	. With how many shapes is :disease related? *
	Either referring to or being referred by them.

## Final questionnaire

Assessments and impressions

18. Which tool have you used? \*

$\bigcap$	RDFShape
( )	NDI Shape

- Shumlex
- 3DShEx

19. Please indicate whether you agree with the following statements: \*

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
The experience with the tool was satisfactory					
The tool was easy to use	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Visual notation was easy to learn	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
The meaning of the symbols can be inferred from their appearance.					
The tool can be useful for understandin g Shape Expressions.	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree

Shape	Expressions	Visua	lization
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Tool design is error-prone	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
The tool facilitates the understandin g of complex areas						
The tool is most useful in large use cases.	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	
The tool is useful for examining references between shapes.						
The tool is useful for examining shape constraints.						
20. Do you have any additional comments on the tool (optional)?						

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