

## Shumlex User Manual

Shumlex is a Shape Expressions visualisation tool that generates a diagram similar to the UML class diagram. The tool is accessible at:

<http://www.weso.es/shumlex/>

To generate a visualisation of a ShEx schema, enter it in the text area and click on "Visualise".

The text editor will be hidden and the corresponding display will be shown. To return to the start, click on "Reset".

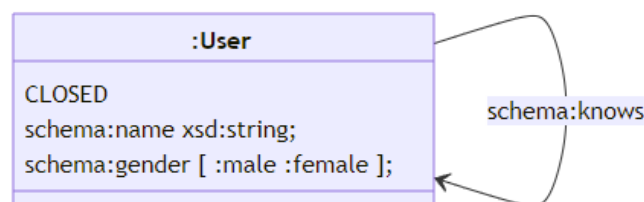
### Visual notation

Shapes are represented by boxes, with their name at the top. Triple constraints and qualifiers concerning that shape are shown as textual statements at the bottom. The only exception is references to shapes, which are shown as arrows pointing to the target shape.

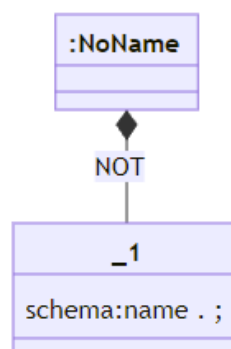
Thus, the following schema:

```
:User CLOSED {  
  schema:name xsd:string;  
  schema:gender [ :male :female ];  
  schema:knows @:User;  
}
```

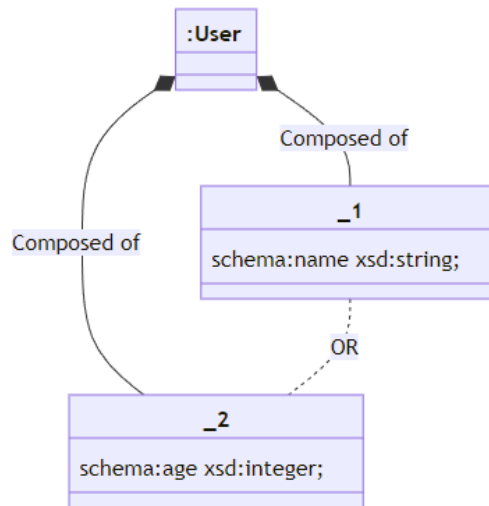
Is represented as follows:



The notation also contemplates the use of composition by means of diamond-headed arrows. For example, the schema `:NoName Not { schema:name . }` is represented as:



If two or more components of a shape are joined by a dashed line, this implies a dependency relationship between them, namely a conjunction or disjunction.



### Interactive mechanisms

Shumlex incorporates a simple complexity management mechanism. Clicking on one of the shapes (represented by boxes) will highlight it and the neighbouring shapes it references. This capability is cumulative, so that several shapes can be highlighted at the same time. To return it to its original state, all highlighted shapes must be clicked again.

