# LOST

LOgic Semantics Tutor

The problem:



#### The solution:

an interactive and intuitive interface.



#### LOST can:

- Display a structure
- Display a signature
- Evaluate sentences within the structure
- Allow editing of the structure and signature
- Guide and engage the user

## Some examples

- It is Monday and it is sunny.
   Monday ∧ sunny
- It is Monday if and only if everyone is sad.
   Monday ↔ ∀x sad(x)

## Some examples

At least two different students use LOST.

```
∃x∃y (student(x) ∧ student(y) ∧
uses(x, LOST) ∧ uses(y, LOST) ∧
¬x=y)
```

Everyone who uses LOST is happy.

```
\forall x (uses(x,LOST) \rightarrow happy(x))
```

## **Implementation**

Language: Java 7

Tools: Antir 4

Toolkits: Swing

**Environment: NetBeans 7.3** 

Version control: Git

