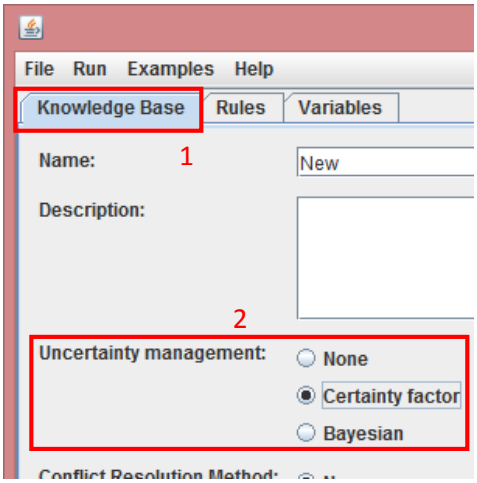
S.T.U.A.R.T. Quick Start Guide

Use this Guide to quickly get started with using the S.T.U.A.R.T. Expert System Shell

1. Open the rule editor by clicking the *Run Rule Wizard* button

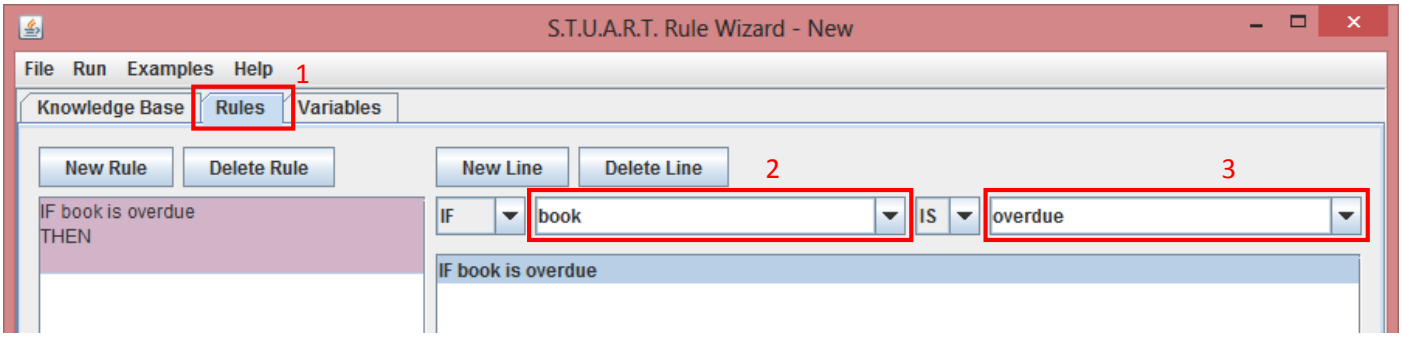
2. Set the uncertainty type in the Knowledge Base tab



If your system will be using uncertainty, set that here.

1. Select the Knowledge Base tab
2. Set the uncertainty type of your system. The default setting is *None*.

3. Creating rules in the Rules tab



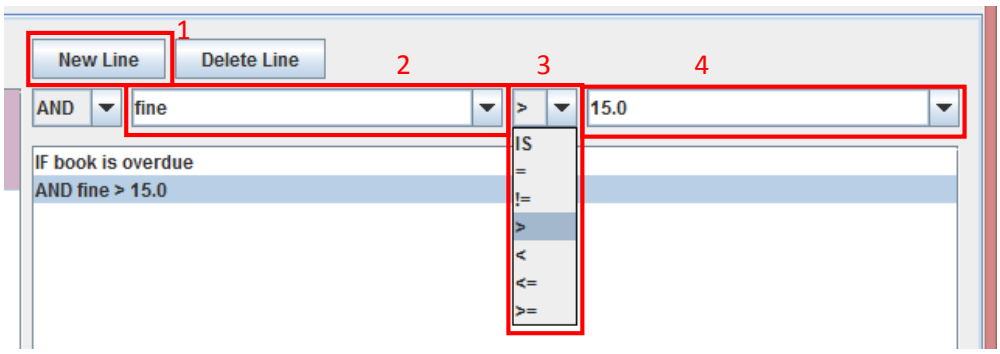
Enter the first antecedent, setting a variable and a value

Rules are entered line by line, conforming to the *"IF Variable is Value"* format.

1. Select the Rule tab
2. Set the *Variable* for the (automatically) selected antecedent
3. Set the *Value* for the selected antecedent

Create a second antecedent

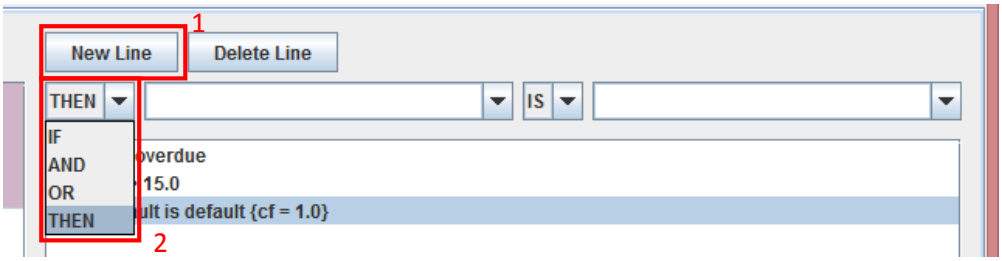
Antecedents may be added to the selected rule as required



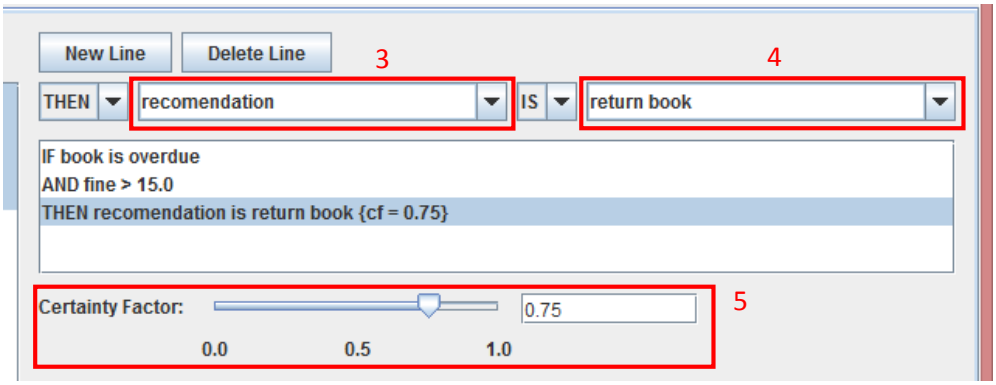
Tip: Quickly create a new line by pressing [Ctrl + L]

1. Create a new Line in the rule by clicking the *New Line* button
2. Set the *Variable* for this antecedent
3. Select the desired relationship from the drop down list – in this case a numeric relation
4. Set the *Value* for comparison

Create a consequent

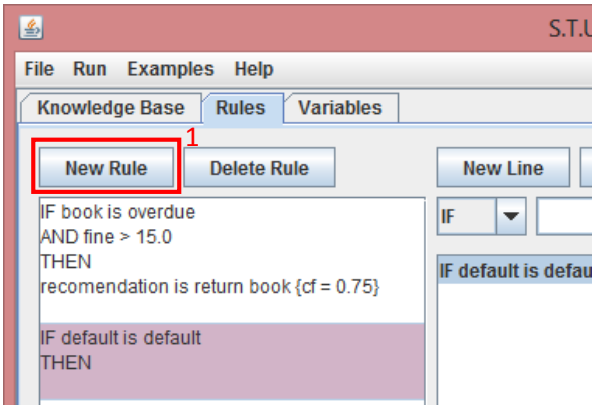


1. Create a new Line in the rule by clicking the *New Line* button
2. Set this line to *THEN* to make it a consequent



3. Set the *Variable* for this consequent
4. Set the *Value* for comparison
5. Set the certainty factor by adjusting the slider or enter it manually

Create more rules

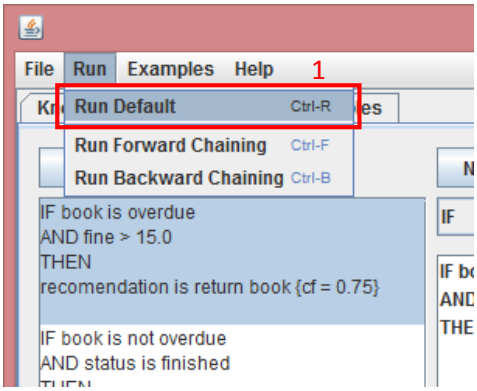


1. Add a new rule by clicking the *New Rule* button
2. Repeat the above steps

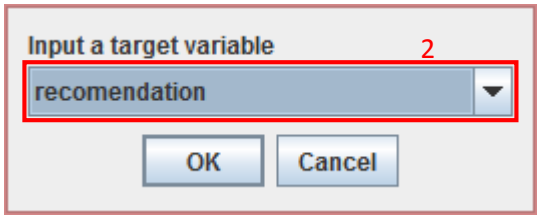
Tip: Quickly create a new rule by pressing [Ctrl + K]

Tip: The order of the rules may be changed by selecting a rule then pressing [Shift + ↑] or [Shift + ↓]

4. Run the Knowledge Base



1. Click *Run Default* from the run menu



2. Select the target variable
3. The inference engine will then ask for data
4. A result will be returned if possible

Please see the user manual for more detailed documentation!